



# 509

HEAO 2  
78-103A-01A,02A,03A,04A,05A

OBSERVING CATALOG OF X RAY DATA



---

## Table of Contents

1. Introduction
2. Errata/Change Log
3. LINKS TO RELEVANT INFORMATION IN THE ONLINE NSSDC  
INFORMATION SYSTEM
4. Catalog Materials
  - a. Associated Documents
  - b. Core Catalog Materials

---

## **1. INTRODUCTION:**

The documentation for this data set was originally on paper, kept in NSSDC's Data Set Catalogs (DSCs). The paper documentation in the Data Set Catalogs have been made into digital images, and then collected into a single PDF file for each Data Set Catalog. The inventory information in these DSCs is current as of July 1, 2004. This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system. The information existing in the DSCs is now not needed for locating the data files, but we did not remove that inventory information.

The offline tape datasets have now been migrated from the original magnetic tape to Archival Information Packages (AIP's).

A prior restoration may have been done on data sets, if a requestor of this data set has questions; they should send an inquiry to the request office to see if additional information exists.

## 2. ERRATA/CHANGE LOG:

NOTE: Changes are made in a text box, and will show up that way when displayed on screen with a PDF reader.

***When printing, special settings may be required to make the text box appear on the printed output.***

| Version | Date | Person | Page | Description of Change |
|---------|------|--------|------|-----------------------|
| 01      |      |        |      |                       |
| 02      |      |        |      |                       |

3 LINKS TO RELEVANT INFORMATION IN THE ONLINE NSSDC  
INFORMATION SYSTEM:

<http://nssdc.gsfc.nasa.gov/nmc/>

[NOTE: This link will take you to the main page of the NSSDC Master Catalog. There you will be able to perform searches to find additional information]

4. CATALOG MATERIALS:

- a. Associated Documents      To find associated documents you will need to know the document ID number and then click here.  
<http://nssdcftp.gsfc.nasa.gov/miscellaneous/documents/>

- b. Core Catalog Materials

HEAO 2

CATALOG OF OBSERVED TARGETS-TAPE

78-103A-01A, 02A, 03A, 04A, 05A ASXR-00077

This data set has been restored. There was originally one 9-track, 1600 BPI tape written in EBCDIC. There is one restored tape written in ASCII. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tape was created on a 360 computer and the restored tape was created on an IBM 9021 computer. The DR and DS numbers along with the corresponding D number are as follows:

| DR#      | DS#      | D#      | FILES  | TIME SPAN           |
|----------|----------|---------|--------|---------------------|
| -----    | -----    | -----   | -----  | -----               |
| DR004824 | DS004824 | D045284 | 1 - 50 | 11/16/78 - 04/25/81 |

REQ. AGENT

LSM

RAND NO.

V0102

ACQ. AGENT

MCL

HEAO 2

OBSERVING CATALOG OF X RAY DATA

78-103A-01A,02A,03A,04A,05A

This catalog consists of 1 tape. The tape is 1600 BPI, EBCDIC, 9 track with 50 files. The data is not time ordered but merely a catalog of of x-ray data obtained by the Einstein Observatory. The 'D' and 'C' Numbers are as follows:

| <u>D#</u> | <u>C#</u> |
|-----------|-----------|
| D-45284   | C-21757   |

CATALOG DESCRIPTION

Sequence Number: unique internal identifier

Position (epoch 1950.0): R.A. (hours, minutes, seconds)  
Decl. (degrees, minutes, seconds)

Instrument:  
 HRI = High Resolution Imager  
 IPC = Imaging Proportional Counter  
 FPC = Focal Plane Crystal Spectrometer  
 SSS = Solid State Spectrometer  
 G05 = Objective Grating Spectrometer (500 lines/mm)  
 G10 = Objective Grating Spectrometer (1000 lines/mm)

Time Requested: Planned useful observing time (units of 1000 seconds)

Time Done: Achieved on-target time, but may include dead time  
(same units)

Image Time: effective exposure time contained in processed data  
(same units)

Data Done: 1 indicates data have been processed

Observer:  
 0 = Center for Astrophysics (contact: R. Giacconi)  
 1 = Columbia (contact: R. Novick)  
 2 = MIT (contact: G. Clark)  
 3 = GSFC (contact: S. Holt)  
 5 = Observatory calibrations/tests  
 $\geq$  6 = Guest Observer, by proposal number (contact: F. Seward)

Target and Investigations: Truncated title (38 characters) containing source  
name and/or description of observing proposal.

**LII and BII** - The galactic coordinates of the pointing.

**Exposure time** - The total on source time, corrected for dead time.

**Ice start** - The value of the ice parameter at the start of the spectral accumulation.

**Ice stop** - The value of the ice parameter at the end of the spectral accumulation. If there is a large jump in the ice parameter (10 percent or more) then the ice build-up occurred rapidly, and the spectral fits at less than 1 keV may not be reliable.

**Delta ice** - The change in ice parameter across the spectral accumulation time.

**Count rate** - The count rate in the 0.6 to 4.5 keV band. Note that the count rate is affected by the ice accumulating on the detector, and will change from observation to observation because of this. Two other count rates are available:

- **min count rate** - minimum count rate during the observation
- **Max count rate** - maximum count rate during the observation.

**Tchi2** - The **tchi2** parameter is a  $\chi^2$  test to a constant source intensity.

**File name** - The name of the files containing the spectrum and light curves.

#### 6.10.4 Contact person

For further information contact Nick White (NASA/GSFC) at HEASRC::WHITE.

### 6.11 SSSHME - IBM listing of the Einstein SSS database

SSSHME contains a listing of the full Einstein Solid State Spectrometer (SSS) database as it was originally archived on the HME tapes and is presently directly accessible using the GSFC IBM mainframe.

#### 6.11.1 Description

For a description of the Einstein Solid State Spectrometer, please type **dbhelp/dbname=SSS**. The SSS database contains a higher-level version of the majority of the SSS data which was extracted, for example, with a coarser time resolution than the original data.

The original data can be accessed using the GSFC IBM 3081 mainframe computer and analyzed using the HEAO-B (Einstein) SSS software package. The data were originally archived on the so-called HME tapes and the present SSSHME catalog is a listing of the SSS data in this archive. The SSSHME listing can be used, for example, to find out precisely when a target was observed; also, by comparison with the SSS database, one can discover which observations were included in the SSS file of a particular source on a particular day. No data product is associated with this catalog. People who are interested in accessing the complete SSS database should get in touch with the SSSHME contact person.

There are typographical errors in this listing, as some of the information was apparently hand-entered. For example, some of the positions are incorrect, as can be found by a comparison with the Einstein aspect solutions for the same time period. Also, the source naming convention is not consistent and different observations of the same source may well be referred to by different names. Thus, searches by name should always be accompanied by searches on coordinates. The SSSHME listing contains observations up to day 660 (1979, day 295 = Oct 22). However, the SSS cryostat ran dry sometime between day 641 and day 651, so that all observations made on and after day 651 (1979, day 286 = Oct 13) are, in fact, useless.

### 6.11.2 Parameters

- Name** - The name of the source.
- Time** - The start date and time of the observation.
- MSSstart** - The start time of the observation in milliseconds.
- End time** - The end date and time of the observation.
- MSSstop** - The end time of the observation in milliseconds.
- Exposure time** - The total exposure time of the observation, in seconds.
- RA and Dec** - The right ascension and declination of the observation.
- LII and BII** - The galactic longitude and latitude of the observation.
- Tape num** - The number of the original IBM data tape.
- File num** - The file number of the observation, on the original IBM data tape.
- Seq num** - Sequence number of the observation.
- Class** - EXOSAT internal object class flag.

### 6.11.3 Contact person

Questions about the SSSHME database should be addressed to Steve Drake (HEASARC) at e-mail address HEASRC::DRAKE.

1 From: 6197::SZYMKOWIAK "Andrew Szymkowiak (301)286-3528" 1-SEP-1987 02:42  
2 To: EXOSAT::NICK  
3 Subj: SSS LIST BY TIME

| Name   | SSS | START DATE | SSS DATE | END DATE | SSS TIME | RA        | Dec       | Source Name |
|--------|-----|------------|----------|----------|----------|-----------|-----------|-------------|
| HME166 | 1   | 335        | 286550   | 335      | 3481430  | 125 15 0  | -42 45 0  | PUPPIS A    |
| HME166 | 2   | 335        | 3604310  | 335      | 9379670  | 125 15 0  | -42 45 0  | PUPPIS A    |
| HME166 | 3   | 335        | 9420630  | 335      | 9748310  | 0 0 0     | 0 0 0     | SLEW        |
| HME166 | 4   | 335        | 9789270  | 335      | 10239830 | 0 0 0     | 0 0 0     | SLEW        |
| HME166 | 5   | 335        | 10280790 | 335      | 12451670 | 313 26 59 | 31 0 0    | CYGNUS L    |
| HME166 | 6   | 335        | 12492630 | 335      | 12697430 | 0 0 0     | 0 0 0     | SLEW        |
| HME166 | 7   | 335        | 12738390 | 335      | 17162070 | 325 39 12 | 38 5 28   | CYGNUS L    |
| HME166 | 8   | 335        | 17203030 | 335      | 18022230 | 0 0 0     | 0 0 0     | SLEW        |
| HME166 | 9   | 335        | 18063190 | 335      | 20315990 | 125 22 30 | -42 45 0  | PUPPIS A    |
| HME166 | 10  | 335        | 20356950 | 335      | 21135190 | 0 0 0     | 0 0 0     | SLEW        |
| HME166 | 11  | 335        | 21176150 | 335      | 21790550 | 325 39 12 | 38 5 28   | BORE A-1    |
| HME166 | 12  | 335        | 21831510 | 335      | 21995350 | 325 39 12 | 38 5 28   | BORE A-1    |
| HME166 | 13  | 335        | 22159190 | 335      | 22732630 | 325 37 56 | 38 5 28   | BORE A-2    |
| HME166 | 14  | 335        | 22855510 | 335      | 23306070 | 325 36 40 | 38 5 28   | BORE A-3    |
| HME166 | 15  | 335        | 23428950 | 335      | 23920470 | 325 36 40 | 38 5 28   | BORE A-4    |
| HME166 | 16  | 335        | 24002390 | 335      | 27688790 | 325 34 9  | 38 5 28   | BORE A-5    |
| HME166 | 17  | 335        | 32931671 | 335      | 40632151 | 289 47 59 | 43 52 0   | A2319       |
| HME166 | 18  | 335        | 40673111 | 335      | 41328471 | 289 47 59 | 43 52 0   | A2319       |
| HME166 | 19  | 335        | 43458391 | 335      | 46366551 | 289 47 59 | 43 52 0   | A2319       |
| HME166 | 20  | 335        | 46407511 | 335      | 46694231 | 0 0 0     | 0 0 0     | SLEW        |
| HME166 | 21  | 335        | 46735191 | 335      | 48619351 | 312 4 30  | 31 32 0   | CYGNUS L    |
| HME166 | 22  | 335        | 49725271 | 335      | 55091031 | 312 4 30  | 31 32 0   | CYGNUS L    |
| HME166 | 23  | 335        | 55172951 | 335      | 55500631 | 325 10 29 | 43 21 18  | SS CYG      |
| HME166 | 24  | 335        | 55541591 | 335      | 55910231 | 325 10 29 | 43 21 18  | SS CYG      |
| HME166 | 25  | 335        | 55951191 | 335      | 60866391 | 325 10 29 | 43 21 18  | SS CYG      |
| HME166 | 26  | 335        | 60907351 | 335      | 65617751 | 325 10 29 | 43 21 18  | SS CYG      |
| HME166 | 27  | 335        | 65658711 | 335      | 65904471 | 325 10 29 | 43 21 18  | SS CYG      |
| HME166 | 28  | 335        | 65945431 | 335      | 66928471 | 325 10 29 | 43 21 18  | SS CYG      |
| HME166 | 29  | 335        | 66969431 | 335      | 72990551 | 325 10 29 | 43 21 18  | SS CYG      |
| HME166 | 30  | 335        | 73031511 | 335      | 76840791 | 325 10 29 | 43 21 18  | SS CYG      |
| HME166 | 31  | 335        | 76881751 | 335      | 77127511 | 325 10 29 | 43 21 18  | SS CYG      |
| HME166 | 32  | 335        | 77168471 | 335      | 77864791 | 325 10 29 | 43 21 18  | SS CYG      |
| HME166 | 33  | 335        | 77905751 | 335      | 79912791 | 325 10 29 | 43 21 18  | SS CYG      |
| HME166 | 34  | 335        | 79953751 | 335      | 80117591 | 0 0 0     | 0 0 0     | SLEW        |
| HME166 | 35  | 335        | 80158551 | 335      | 83926871 | 331 39 44 | 45 29 46  | AR LAC      |
| HME166 | 36  | 335        | 83967831 | 335      | 85688151 | 331 39 44 | 45 29 46  | AR LAC      |
| HME166 | 37  | 335        | 85729111 | 336      | 189271   | 0 0 0     | 0 0 0     | SLEW        |
| HME167 | 1   | 336        | 230231   | 336      | 2728791  | 125 22 30 | -42 45 0  | PUPPIS A    |
| HME167 | 2   | 336        | 2769751  | 336      | 7480151  | 125 22 30 | -42 45 0  | PUPPIS A    |
| HME167 | 3   | 336        | 7521111  | 336      | 8381271  | 0 0 0     | 0 0 0     | SLEW        |
| HME167 | 4   | 336        | 8422231  | 336      | 9691991  | 322 24 6  | 47 4 9    | 2129+47     |
| HME167 | 5   | 336        | 9896791  | 336      | 10593111 | 322 24 6  | 47 4 9    | 2129+47     |
| HME167 | 6   | 336        | 10634071 | 336      | 11412311 | 0 0 0     | 0 0 0     | SLEW        |
| HME167 | 7   | 336        | 11453271 | 336      | 15876951 | 125 22 30 | -42 45 0  | PUPPIS A    |
| HME167 | 8   | 336        | 15917911 | 336      | 19276632 | 125 22 30 | -42 45 0  | PUPPIS A    |
| HME167 | 9   | 336        | 19317592 | 336      | 20218712 | 0 0 0     | 0 0 0     | SLEW        |
| HME167 | 10  | 336        | 20259672 | 336      | 20915032 | 325 39 12 | 38 1 28   | BORE A-9    |
| HME167 | 11  | 336        | 21119832 | 336      | 21939032 | 325 39 12 | 38 13 28  | BORE B-1    |
| HME167 | 12  | 336        | 22061912 | 336      | 22553432 | 0 0 0     | 0 0 0     | SLEW        |
| HME167 | 13  | 336        | 22635352 | 336      | 23126872 | 325 39 12 | 38 11 28  | BORE B-2    |
| HME167 | 14  | 336        | 23249752 | 336      | 26977112 | 325 39 12 | 38 8 28   | BORE B-4    |
| HME167 | 15  | 336        | 27304792 | 336      | 27714392 | 325 39 12 | 38 7 28   | BORE B-5    |
| HME167 | 16  | 336        | 27837272 | 336      | 28287832 | 325 39 12 | 38 6 28   | BORE B-6    |
| HME167 | 17  | 336        | 28410712 | 336      | 28902232 | 325 40 28 | 38 5 28   | BORE B-7    |
| HME167 | 18  | 336        | 28984152 | 336      | 33530712 | 325 39 12 | 38 5 28   | CYG X-2     |
| HME167 | 19  | 336        | 33571672 | 336      | 34104152 | 0 0 0     | 0 0 0     | SLEW        |
| HME167 | 20  | 336        | 34145112 | 336      | 34513752 | 307 38 15 | 40 47 6   | CYG X-3     |
| HME167 | 21  | 336        | 34595672 | 336      | 39797592 | 307 38 15 | 40 47 6   | CYG X-3     |
| HME167 | 22  | 336        | 39879512 | 336      | 47211352 | 307 38 15 | 40 47 6   | CYG X-3     |
| HME167 | 23  | 336        | 47252312 | 336      | 47498072 | 307 38 15 | 40 47 6   | CYG X-3     |
| HME167 | 24  | 336        | 47539032 | 336      | 47907672 | 307 38 15 | 40 47 6   | CYG X-3     |
| HME167 | 25  | 336        | 47948632 | 336      | 48440152 | 307 38 15 | 40 47 6   | CYG X-3     |
| HME167 | 26  | 336        | 48563032 | 336      | 54010712 | 307 38 15 | 40 47 6   | CYG X-3     |
| HME167 | 27  | 336        | 54051672 | 336      | 56836952 | 307 38 15 | 40 47 6   | CYG X-3     |
| HME167 | 28  | 336        | 56877912 | 336      | 57246552 | 0 0 0     | 0 0 0     | SLEW        |
| HME167 | 29  | 336        | 57287512 | 336      | 60031832 | 273 44 44 | 49 50 48  | AM HER      |
| HME167 | 30  | 336        | 60072792 | 336      | 61301592 | 273 44 44 | 49 50 48  | AM HER      |
| HME167 | 31  | 336        | 61342552 | 336      | 62120792 | 0 0 0     | 0 0 0     | SLEW        |
| HME167 | 32  | 336        | 62161752 | 336      | 66093912 | 0 0 0     | 0 0 0     | SLEW        |
| HME167 | 33  | 336        | 66134872 | 336      | 70886232 | 124 42 30 | -42 50 0  | PUPPIS A    |
| HME167 | 34  | 336        | 70927192 | 336      | 71091032 | 0 0 0     | 0 0 0     | SLEW        |
| HME167 | 35  | 336        | 71131992 | 336      | 71746392 | 0 0 0     | 0 0 0     | SLEW        |
| HME167 | 36  | 336        | 71787352 | 336      | 77071192 | 273 44 44 | 49 50 48  | AM HER      |
| HME168 | 1   | 336        | 77112152 | 336      | 78586712 | 273 44 44 | 49 50 48  | AM HER      |
| HME168 | 2   | 336        | 78627672 | 336      | 79446872 | 0 0 0     | 0 0 0     | SLEW        |
| HME168 | 3   | 336        | 79487832 | 336      | 82273112 | 135 3 18  | -40 21 25 | VELA X-1    |

↑ in milliseconds

Ref 1978 Jan 1

|     |        |    |     |          |     |          |     |    |    |     |    |    |           |
|-----|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|-----------|
| 81  | HME168 | 4  | 336 | 82355032 | 336 | 82969432 | 135 | 3  | 18 | -40 | 21 | 25 | VELA X-1  |
| 82  | HME168 | 5  | 336 | 83010392 | 336 | 83706712 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 83  | HME168 | 6  | 336 | 83747672 | 337 | 1566552  | 273 | 44 | 44 | 49  | 50 | 48 | AM HER    |
| 84  | HME168 | 7  | 337 | 1607512  | 337 | 1976152  | 273 | 44 | 44 | 49  | 50 | 48 | AM HER    |
| 85  | HME168 | 8  | 337 | 2549592  | 337 | 5211993  | 312 | 4  | 30 | 31  | 55 | 59 | CYGNUS L  |
| 86  | HME168 | 9  | 337 | 5252953  | 337 | 5457753  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 87  | HME168 | 10 | 337 | 5498713  | 337 | 8488793  | 325 | 41 | 43 | 38  | 5  | 28 | BORE B-8  |
| 88  | HME168 | 11 | 337 | 8652633  | 337 | 8898393  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 89  | HME168 | 12 | 337 | 8939353  | 337 | 9717593  | 325 | 42 | 59 | 38  | 5  | 28 | BORE B-9  |
| 90  | HME168 | 13 | 337 | 9840473  | 337 | 10905433 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 91  | HME168 | 14 | 337 | 10946393 | 337 | 11233113 | 325 | 44 | 16 | 38  | 5  | 28 | BORE B-10 |
| 92  | HME168 | 15 | 337 | 11274073 | 337 | 15001433 | 331 | 39 | 44 | 45  | 29 | 46 | AR LAC    |
| 93  | HME168 | 16 | 337 | 15042393 | 337 | 15656793 | 331 | 39 | 44 | 45  | 29 | 46 | AR LAC    |
| 94  | HME168 | 17 | 337 | 15697753 | 337 | 16557913 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 95  | HME168 | 18 | 337 | 16598873 | 337 | 19261273 | 125 | 22 | 30 | -42 | 45 | 0  | PUPPIS A  |
| 96  | HME168 | 19 | 337 | 19425113 | 337 | 20367193 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 97  | HME168 | 20 | 337 | 20449113 | 337 | 26388313 | 124 | 56 | 15 | -42 | 37 | 0  | PUPPIS A  |
| 98  | HME168 | 21 | 337 | 26429273 | 337 | 30033753 | 124 | 56 | 15 | -42 | 37 | 0  | PUPPIS A  |
| 99  | HME168 | 22 | 337 | 30074713 | 337 | 30320473 | 124 | 56 | 15 | -42 | 37 | 0  | PUPPIS A  |
| 100 | HME168 | 23 | 337 | 30361433 | 337 | 30689113 | 124 | 56 | 15 | -42 | 37 | 0  | PUPPIS A  |
| 101 | HME168 | 24 | 337 | 30730073 | 337 | 31426393 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 102 | HME168 | 25 | 337 | 31467353 | 337 | 32450393 | 313 | 26 | 59 | 31  | 0  | 0  | CYGNUS L  |
| 103 | HME168 | 26 | 337 | 32491353 | 337 | 33840473 | 313 | 26 | 59 | 31  | 0  | 0  | CYG L     |
| 104 | HME168 | 27 | 337 | 33843033 | 337 | 33965913 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 105 | HME168 | 28 | 337 | 34006873 | 337 | 36382553 | 312 | 4  | 30 | 31  | 32 | 0  | CYGNUS L  |
| 106 | HME168 | 29 | 337 | 36464473 | 337 | 39495513 | 312 | 4  | 30 | 31  | 32 | 0  | CYGNUS L  |
| 107 | HME168 | 30 | 337 | 39618393 | 337 | 45188953 | 312 | 4  | 29 | 31  | 32 | 0  | CYGNUS L  |
| 108 | HME168 | 31 | 337 | 45352793 | 337 | 46008153 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 109 | HME168 | 32 | 337 | 46090073 | 337 | 48383833 | 312 | 4  | 30 | 31  | 32 | 0  | CYGNUS L  |
| 110 | HME168 | 33 | 337 | 48547673 | 337 | 50882393 | 312 | 4  | 30 | 31  | 32 | 0  | CYGNUS L  |
| 111 | HME168 | 34 | 337 | 51046233 | 337 | 53299033 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 112 | HME168 | 35 | 337 | 53339993 | 337 | 59320153 | 312 | 22 | 30 | 30  | 40 | 0  | CYGNUS L  |
| 113 | HME168 | 36 | 337 | 59402073 | 337 | 65341273 | 312 | 22 | 30 | 30  | 40 | 0  | CYGNUS L  |
| 114 | HME169 | 1  | 337 | 65423193 | 337 | 71198553 | 312 | 22 | 30 | 30  | 40 | 0  | CYGNUS L  |
| 115 | HME169 | 2  | 337 | 71239513 | 337 | 71362393 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 116 | HME169 | 3  | 337 | 71567193 | 337 | 76277593 | 313 | 27 | 0  | 31  | 0  | 0  | CYGNUS L  |
| 117 | HME169 | 4  | 337 | 76318553 | 337 | 82421594 | 313 | 27 | 0  | 31  | 0  | 0  | CYGNUS L  |
| 118 | HME169 | 5  | 337 | 82462554 | 337 | 83650394 | 313 | 27 | 0  | 31  | 0  | 0  | CYGNUS L  |
| 119 | HME169 | 6  | 337 | 83691354 | 337 | 84551514 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 120 | HME169 | 7  | 337 | 84592474 | 338 | 363354   | 128 | 24 | 45 | -45 | 0  | 19 | VELA P    |
| 121 | HME169 | 8  | 338 | 404314   | 338 | 1141594  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 122 | HME169 | 9  | 338 | 1182554  | 338 | 2124634  | 329 | 52 | 14 | 43  | 38 | 53 | RT LAC    |
| 123 | HME169 | 10 | 338 | 2165594  | 338 | 3476314  | 329 | 52 | 14 | 43  | 38 | 53 | RT LAC    |
| 124 | HME169 | 11 | 338 | 3517274  | 338 | 3722074  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 125 | HME169 | 12 | 338 | 3763034  | 338 | 7326554  | 331 | 39 | 44 | 45  | 29 | 46 | AR LAC    |
| 126 | HME169 | 13 | 338 | 7367514  | 338 | 9169754  | 331 | 39 | 44 | 45  | 29 | 46 | AR LAC    |
| 127 | HME169 | 14 | 338 | 9210714  | 338 | 9415514  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 128 | HME169 | 15 | 338 | 9456474  | 338 | 13429594 | 330 | 44 | 19 | 46  | 59 | 27 | HK LAC    |
| 129 | HME169 | 16 | 338 | 13470554 | 338 | 14863194 | 330 | 44 | 19 | 46  | 59 | 27 | HK LAC    |
| 130 | HME169 | 17 | 338 | 14904154 | 338 | 15477594 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 131 | HME169 | 18 | 338 | 15518554 | 338 | 18795354 | 197 | 4  | 45 | 36  | 12 | 0  | RS CVN    |
| 132 | HME169 | 19 | 338 | 18836314 | 338 | 19450714 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 133 | HME169 | 20 | 338 | 19491674 | 338 | 19655514 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 134 | HME169 | 21 | 338 | 19696474 | 338 | 24202074 | 125 | 30 | 0  | -42 | 45 | 0  | PUPPIS A  |
| 135 | HME169 | 22 | 338 | 24243034 | 338 | 24816474 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 136 | HME169 | 23 | 338 | 24857434 | 338 | 25553754 | 348 | 54 | 36 | -42 | 38 | 42 | NGC 7582  |
| 137 | HME169 | 24 | 338 | 25594714 | 338 | 28257114 | 348 | 54 | 36 | -42 | 38 | 42 | NGC 7582  |
| 138 | HME169 | 25 | 338 | 28298074 | 338 | 28830554 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 139 | HME169 | 26 | 338 | 28871514 | 338 | 31697754 | 325 | 39 | 12 | 38  | 5  | 28 | CYG X-2   |
| 140 | HME169 | 27 | 338 | 31738714 | 338 | 32025434 | 325 | 39 | 12 | 38  | 5  | 28 | CYG X-2   |
| 141 | HME169 | 28 | 338 | 32066394 | 338 | 32803674 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 142 | HME169 | 29 | 338 | 32844634 | 338 | 40135514 | 145 | 49 | 21 | -14 | 5  | 48 | NGC 2992  |
| 143 | HME169 | 30 | 338 | 40217434 | 338 | 40913754 | 145 | 49 | 21 | -14 | 5  | 48 | NGC 2992  |
| 144 | HME169 | 31 | 338 | 40954714 | 338 | 41528154 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 145 | HME169 | 32 | 338 | 41569114 | 338 | 46361434 | 348 | 54 | 36 | -42 | 38 | 42 | NGC 7582  |
| 146 | HME169 | 33 | 338 | 46402394 | 338 | 48696154 | 348 | 54 | 36 | -42 | 38 | 42 | NGC 7582  |
| 147 | HME169 | 34 | 338 | 48737114 | 338 | 49351514 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 148 | HME169 | 35 | 338 | 49392474 | 338 | 52382554 | 135 | 3  | 18 | -40 | 21 | 25 | VELA X-1  |
| 149 | HME169 | 36 | 338 | 52546394 | 338 | 52915034 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 150 | HME170 | 1  | 338 | 52955994 | 338 | 56806234 | 348 | 54 | 36 | -42 | 38 | 42 | NGC 7582  |
| 151 | HME170 | 2  | 338 | 56847194 | 338 | 57379674 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 152 | HME170 | 3  | 338 | 57420634 | 338 | 58485594 | 128 | 24 | 45 | -45 | 0  | 19 | VELA X-1  |
| 153 | HME170 | 4  | 338 | 58526554 | 338 | 64588634 | 128 | 24 | 45 | -45 | 0  | 19 | VELA X-1  |
| 154 | HME170 | 5  | 338 | 64629594 | 338 | 68356954 | 128 | 24 | 45 | -45 | 0  | 19 | VELA X-1  |
| 155 | HME170 | 6  | 338 | 68397914 | 338 | 68643675 | 128 | 24 | 45 | -45 | 0  | 19 | VELA X-1  |
| 156 | HME170 | 7  | 338 | 68684635 | 338 | 70650715 | 128 | 24 | 45 | -45 | 0  | 19 | VELA X-1  |
| 157 | HME170 | 8  | 338 | 70691675 | 338 | 75279195 | 128 | 24 | 45 | -45 | 0  | 19 | VELA X-1  |
| 158 | HME170 | 9  | 338 | 75320155 | 338 | 75524955 | 128 | 24 | 45 | -45 | 0  | 19 | VELA X-1  |
| 159 | HME170 | 10 | 338 | 75565915 | 338 | 75934555 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 160 | HME170 | 11 | 338 | 75975515 | 338 | 81587035 | 165 | 30 | 0  | 45  | 21 | 0  | AN UMA    |

|     |        |    |     |          |     |          |     |    |    |     |    |    |        |       |
|-----|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|--------|-------|
| 161 | HME170 | 12 | 338 | 81627995 | 338 | 85805915 | 165 | 30 | 0  | 45  | 21 | 0  | AN     | UMA   |
| 162 | HME170 | 13 | 338 | 85846875 | 338 | 86092635 | 165 | 30 | 0  | 45  | 21 | 0  | AN     | UMA   |
| 163 | HME170 | 14 | 338 | 86133595 | 339 | 12491115 | 165 | 30 | 0  | 45  | 21 | 0  | AN     | UMA   |
| 164 | HME146 | 1  | 339 | 12900075 | 339 | 5549915  | 165 | 30 | 0  | 45  | 21 | 0  | AN     | UMA   |
| 165 | HME146 | 2  | 339 | 5590875  | 339 | 6205275  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW   |       |
| 166 | HME146 | 3  | 339 | 6246235  | 339 | 7270235  | 329 | 52 | 14 | 43  | 38 | 53 | RT     | LAC   |
| 167 | HME146 | 4  | 339 | 7434075  | 339 | 8376155  | 329 | 52 | 14 | 43  | 38 | 53 | RT     | LAC   |
| 168 | HME146 | 5  | 339 | 8417115  | 339 | 8949595  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW   |       |
| 169 | HME146 | 6  | 339 | 8990555  | 339 | 12635995 | 165 | 30 | 0  | 45  | 21 | 0  | AN     | UMA   |
| 170 | HME146 | 7  | 339 | 12676955 | 339 | 16977755 | 165 | 30 | 0  | 45  | 21 | 0  | AN     | UMA   |
| 171 | HME146 | 8  | 339 | 17018715 | 339 | 17674075 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW   |       |
| 172 | HME146 | 9  | 339 | 17715035 | 339 | 18739035 | 331 | 39 | 44 | 45  | 29 | 46 | AR     | LAC   |
| 173 | HME146 | 10 | 339 | 18779995 | 339 | 19803995 | 331 | 39 | 44 | 45  | 29 | 46 | AR     | LAC   |
| 174 | HME146 | 11 | 339 | 19844955 | 339 | 19967835 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW   |       |
| 175 | HME146 | 12 | 339 | 20008795 | 339 | 24842075 | 330 | 44 | 19 | 46  | 59 | 27 | HK     | LAC   |
| 176 | HME146 | 13 | 339 | 24883035 | 339 | 25497435 | 330 | 44 | 19 | 46  | 59 | 27 | HK     | LAC   |
| 177 | HME146 | 14 | 339 | 25538395 | 339 | 26111835 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW   |       |
| 178 | HME146 | 15 | 339 | 26152795 | 339 | 29470555 | 197 | 4  | 45 | 36  | 12 | 0  | RS     | CVN   |
| 179 | HME146 | 16 | 339 | 29511515 | 339 | 30043995 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW   |       |
| 180 | HME146 | 17 | 339 | 30084955 | 339 | 31027035 | 325 | 39 | 12 | 38  | 5  | 28 | CYG    | X-2   |
| 181 | HME146 | 18 | 339 | 31067995 | 339 | 32337755 | 325 | 39 | 12 | 38  | 5  | 28 | CYG    | X-2   |
| 182 | HME146 | 19 | 339 | 32419675 | 339 | 36966235 | 325 | 39 | 12 | 38  | 5  | 28 | CYG    | X-2   |
| 183 | HME146 | 20 | 339 | 37007195 | 339 | 37662555 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW   |       |
| 184 | HME146 | 21 | 339 | 37703515 | 339 | 44666715 | 165 | 25 | 8  | 38  | 28 | 43 | MKN    | 421   |
| 185 | HME146 | 22 | 339 | 44748635 | 339 | 46264155 | 165 | 25 | 8  | 38  | 28 | 43 | MKN    | 421   |
| 186 | HME146 | 23 | 339 | 46305115 | 339 | 46673755 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW   |       |
| 187 | HME146 | 24 | 339 | 46714715 | 339 | 50687835 | 165 | 30 | 0  | 45  | 21 | 0  | AN     | UMA   |
| 188 | HME146 | 25 | 339 | 50810715 | 339 | 53186395 | 165 | 30 | 0  | 45  | 21 | 0  | AN     | UMA   |
| 189 | HME146 | 26 | 339 | 53227355 | 339 | 53882715 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW   |       |
| 190 | HME146 | 27 | 339 | 53923675 | 339 | 57937755 | 125 | 37 | 30 | -42 | 56 | 0  | PUPPIS | A     |
| 191 | HME146 | 28 | 339 | 57978716 | 339 | 63795036 | 125 | 37 | 30 | -42 | 56 | 0  | PUPPIS | A     |
| 192 | HME146 | 29 | 339 | 63835996 | 339 | 65228636 | 125 | 37 | 30 | -42 | 56 | 0  | PUPPIS | A     |
| 193 | HME146 | 30 | 339 | 65269596 | 339 | 65515356 | 125 | 37 | 30 | -42 | 56 | 0  | PUPPIS | A     |
| 194 | HME146 | 31 | 339 | 65556316 | 339 | 67194716 | 125 | 37 | 30 | -42 | 56 | 0  | PUPPIS | A     |
| 195 | HME146 | 32 | 339 | 67235676 | 339 | 68546396 | 125 | 37 | 30 | -42 | 56 | 0  | PUPPIS | A     |
| 196 | HME146 | 33 | 339 | 68587356 | 339 | 69242716 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW   |       |
| 197 | HME146 | 34 | 339 | 69283676 | 339 | 74977116 | 321 | 53 | 30 | 11  | 56 | 51 | NGC    | 7078  |
| 198 | HME147 | 1  | 339 | 75018076 | 339 | 79155036 | 321 | 53 | 30 | 11  | 56 | 51 | NGC    | 7078  |
| 199 | HME147 | 2  | 339 | 79236956 | 340 | 414556   | 321 | 53 | 30 | 11  | 56 | 51 | NGC    | 7078  |
| 200 | HME147 | 3  | 340 | 455516   | 340 | 3199836  | 321 | 53 | 30 | 11  | 56 | 51 | NGC    | 7078  |
| 201 | HME147 | 4  | 340 | 3240796  | 340 | 3568476  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW   |       |
| 202 | HME147 | 5  | 340 | 3609436  | 340 | 6681436  | 299 | 25 | 59 | 40  | 35 | 46 | CYGNUS | A     |
| 203 | HME147 | 6  | 340 | 6722396  | 340 | 10859356 | 299 | 25 | 59 | 40  | 35 | 46 | CYGNUS | A     |
| 204 | HME147 | 7  | 340 | 10900316 | 340 | 11842396 | 299 | 25 | 59 | 40  | 35 | 46 | CYGNUS | A     |
| 205 | HME147 | 8  | 340 | 11883356 | 340 | 15774556 | 299 | 25 | 59 | 40  | 35 | 46 | CYGNUS | A     |
| 206 | HME147 | 9  | 340 | 15815516 | 340 | 16061276 | 299 | 25 | 59 | 40  | 35 | 46 | CYGNUS | A     |
| 207 | HME147 | 10 | 340 | 16102236 | 340 | 18027356 | 299 | 25 | 59 | 40  | 35 | 46 | CYGNUS | A     |
| 208 | HME147 | 11 | 340 | 18150236 | 340 | 19870556 | 299 | 25 | 59 | 40  | 35 | 46 | CYGNUS | A     |
| 209 | HME147 | 12 | 340 | 19911516 | 340 | 20157276 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW   |       |
| 210 | HME147 | 13 | 340 | 20198236 | 340 | 23065436 | 311 | 0  | 0  | 30  | 40 | 0  | CYGNUS | L     |
| 211 | HME147 | 14 | 340 | 23106396 | 340 | 23843676 | 311 | 0  | 0  | 30  | 40 | 0  | CYGNUS | L     |
| 212 | HME147 | 15 | 340 | 23884636 | 340 | 29782876 | 311 | 0  | 0  | 30  | 40 | 0  | CYGNUS | L     |
| 213 | HME147 | 16 | 340 | 29823836 | 340 | 30683996 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW   |       |
| 214 | HME147 | 17 | 340 | 30888796 | 340 | 31052636 | 135 | 3  | 18 | -40 | 21 | 25 | VELA   | X-1   |
| 215 | HME147 | 18 | 340 | 31134556 | 340 | 31667036 | 135 | 3  | 18 | -40 | 21 | 25 | VELA   | X-1   |
| 216 | HME147 | 19 | 340 | 31871836 | 340 | 34247516 | 135 | 3  | 18 | -40 | 21 | 25 | VELA   | X-1   |
| 217 | HME147 | 20 | 340 | 34288476 | 340 | 34820956 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW   |       |
| 218 | HME147 | 21 | 340 | 34861916 | 340 | 36623196 | 197 | 4  | 45 | 36  | 12 | 0  | RS     | CVN   |
| 219 | HME147 | 22 | 340 | 36868956 | 340 | 38998876 | 197 | 4  | 45 | 36  | 12 | 0  | RS     | CVN   |
| 220 | HME147 | 23 | 340 | 39039836 | 340 | 40145756 | 197 | 4  | 45 | 36  | 12 | 0  | RS     | CVN   |
| 221 | HME147 | 24 | 340 | 40186716 | 340 | 40719196 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW   |       |
| 222 | HME147 | 25 | 340 | 40760156 | 340 | 44774236 | 313 | 0  | 0  | 31  | 0  | 0  | CYGNUS | L     |
| 223 | HME147 | 26 | 340 | 44815196 | 340 | 50836317 | 313 | 0  | 0  | 31  | 0  | 0  | CYGNUS | L     |
| 224 | HME147 | 27 | 340 | 50877277 | 340 | 53089117 | 313 | 0  | 0  | 31  | 0  | 0  | CYGNUS | L     |
| 225 | HME147 | 28 | 340 | 53130077 | 340 | 53375837 | 313 | 0  | 0  | 31  | 0  | 0  | CYGNUS | L     |
| 226 | HME147 | 29 | 340 | 53416797 | 340 | 54358877 | 313 | 0  | 0  | 31  | 0  | 0  | CYGNUS | L     |
| 227 | HME147 | 30 | 340 | 54522717 | 340 | 57185117 | 311 | 0  | 0  | 30  | 40 | 0  | CYGNUS | L     |
| 228 | HME147 | 31 | 340 | 57226077 | 340 | 62018397 | 311 | 0  | 0  | 30  | 40 | 0  | CYGNUS | L     |
| 229 | HME147 | 32 | 340 | 62059357 | 340 | 64885597 | 311 | 0  | 0  | 30  | 40 | 0  | CYGNUS | L     |
| 230 | HME147 | 33 | 340 | 64926557 | 340 | 65786717 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW   |       |
| 231 | HME148 | 1  | 340 | 65827677 | 340 | 67834717 | 128 | 24 | 45 | -45 | 15 | 19 | VELA   | P     |
| 232 | HME148 | 2  | 340 | 67875677 | 340 | 73814877 | 128 | 24 | 45 | -45 | 15 | 19 | VELA   | P     |
| 233 | HME148 | 3  | 340 | 73978717 | 340 | 74101597 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW   |       |
| 234 | HME148 | 4  | 340 | 74142557 | 340 | 79139677 | 125 | 30 | 0  | -42 | 45 | 0  | PUPPIS | A     |
| 235 | HME148 | 5  | 340 | 79180637 | 340 | 79795037 | 125 | 30 | 0  | -42 | 45 | 0  | PUPPIS | A     |
| 236 | HME148 | 6  | 340 | 79835997 | 340 | 80655197 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW   |       |
| 237 | HME148 | 7  | 340 | 80696157 | 340 | 82907997 | 313 | 15 | 0  | 31  | 0  | 0  | CYGNUS | L     |
| 238 | HME148 | 8  | 340 | 82948957 | 340 | 83522397 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW   |       |
| 239 | HME148 | 9  | 340 | 83563357 | 340 | 86102877 | 175 | 50 | 15 | 32  | 6  | 12 | G      | 148-7 |
| 240 | HME148 | 10 | 340 | 86143837 | 341 | 5805917  | 175 | 50 | 15 | 32  | 6  | 12 | G      | 148-7 |

|     |        |    |     |          |     |          |     |    |    |     |    |    |          |       |
|-----|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|-------|
| 241 | HME148 | 11 | 341 | 5846877  | 341 | 5969757  | 175 | 50 | 15 | 32  | 6  | 12 | G        | 148-7 |
| 242 | HME148 | 12 | 341 | 6010717  | 341 | 6747997  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |       |
| 243 | HME148 | 13 | 341 | 6788957  | 341 | 10843997 | 197 | 4  | 45 | 36  | 12 | 0  | RS CVN   |       |
| 244 | HME148 | 14 | 341 | 10884957 | 341 | 11048797 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |       |
| 245 | HME148 | 15 | 341 | 11089757 | 341 | 11458397 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |       |
| 246 | HME148 | 16 | 341 | 11499357 | 341 | 17151837 | 165 | 25 | 8  | 38  | 28 | 43 | MKN      | 421   |
| 247 | HME148 | 17 | 341 | 17192797 | 341 | 17315677 | 165 | 25 | 8  | 38  | 28 | 43 | MKN      | 421   |
| 248 | HME148 | 18 | 341 | 17356637 | 341 | 17643357 | 165 | 25 | 8  | 38  | 28 | 43 | MKN      | 421   |
| 249 | HME148 | 19 | 341 | 17684317 | 341 | 23295837 | 175 | 50 | 15 | 32  | 6  | 12 | G        | 148-7 |
| 250 | HME148 | 20 | 341 | 25876317 | 341 | 30095197 | 175 | 50 | 15 | 32  | 6  | 12 | G        | 148-7 |
| 251 | HME148 | 21 | 341 | 30136157 | 341 | 30381917 | 175 | 50 | 15 | 32  | 6  | 12 | G        | 148-7 |
| 252 | HME148 | 22 | 341 | 30422877 | 341 | 33658717 | 175 | 50 | 15 | 32  | 6  | 12 | G        | 148-7 |
| 253 | HME148 | 23 | 341 | 33699677 | 341 | 33904477 | 175 | 50 | 15 | 32  | 6  | 12 | G        | 148-7 |
| 254 | HME148 | 24 | 341 | 33945437 | 341 | 36935518 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |       |
| 255 | HME148 | 25 | 341 | 36976478 | 341 | 43980638 | 184 | 43 | 0  | 30  | 27 | 14 | 1219+305 |       |
| 256 | HME148 | 26 | 341 | 44144478 | 341 | 50083678 | 182 | 0  | 15 | 39  | 41 | 2  | NGC      | 4151  |
| 257 | HME148 | 27 | 341 | 50124638 | 341 | 50329438 | 182 | 0  | 15 | 39  | 41 | 2  | NGC      | 4151  |
| 258 | HME148 | 28 | 341 | 50370398 | 341 | 50616158 | 182 | 0  | 15 | 39  | 41 | 2  | NGC      | 4151  |
| 259 | HME148 | 29 | 341 | 50657118 | 341 | 50943838 | 182 | 0  | 15 | 39  | 41 | 2  | NGC      | 4151  |
| 260 | HME148 | 30 | 341 | 51025758 | 341 | 55285598 | 182 | 0  | 15 | 39  | 41 | 2  | NGC      | 4151  |
| 261 | HME148 | 31 | 341 | 55326558 | 341 | 55859038 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |       |
| 262 | HME149 | 1  | 341 | 55899998 | 341 | 61019998 | 182 | 0  | 15 | 39  | 41 | 2  | NGC      | 4151  |
| 263 | HME149 | 2  | 341 | 61101918 | 341 | 65853278 | 182 | 0  | 15 | 39  | 41 | 2  | NGC      | 4151  |
| 264 | HME149 | 3  | 341 | 65894238 | 341 | 66139998 | 184 | 31 | 0  | 33  | 59 | 40 | 3C270.1  |       |
| 265 | HME149 | 4  | 341 | 66180958 | 341 | 67082078 | 184 | 31 | 0  | 33  | 59 | 40 | 3C270.1  |       |
| 266 | HME149 | 5  | 341 | 67123038 | 341 | 73185118 | 184 | 31 | 0  | 33  | 59 | 40 | 3C270.1  |       |
| 267 | HME149 | 6  | 341 | 73226078 | 341 | 74946398 | 184 | 31 | 0  | 33  | 59 | 40 | 3C270.1  |       |
| 268 | HME149 | 7  | 341 | 74987358 | 341 | 75233118 | 184 | 31 | 0  | 33  | 59 | 40 | 3C270.1  |       |
| 269 | HME149 | 8  | 341 | 75274078 | 341 | 79206238 | 184 | 31 | 0  | 33  | 59 | 40 | 3C270.1  |       |
| 270 | HME149 | 9  | 341 | 79247198 | 341 | 80312158 | 184 | 31 | 0  | 33  | 59 | 40 | 3C270.1  |       |
| 271 | HME149 | 10 | 341 | 80353118 | 341 | 80639838 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |       |
| 272 | HME149 | 11 | 341 | 80680798 | 341 | 85309278 | 307 | 38 | 15 | 40  | 47 | 6  | CYG X-3  |       |
| 273 | HME149 | 12 | 341 | 85350238 | 342 | 5012318  | 307 | 38 | 15 | 40  | 47 | 6  | CYG X-3  |       |
| 274 | HME149 | 13 | 342 | 5053278  | 342 | 5299038  | 307 | 38 | 14 | 40  | 47 | 6  | CYG X-3  |       |
| 275 | HME149 | 14 | 342 | 5339998  | 342 | 5503838  | 307 | 38 | 14 | 40  | 47 | 6  | CYG X-3  |       |
| 276 | HME149 | 15 | 342 | 5626718  | 342 | 11074398 | 307 | 38 | 14 | 40  | 47 | 6  | CYG X-3  |       |
| 277 | HME149 | 16 | 342 | 11115358 | 342 | 11975518 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |       |
| 278 | HME149 | 17 | 342 | 12016478 | 342 | 12753758 | 135 | 3  | 18 | -40 | 21 | 25 | VELA X-1 |       |
| 279 | HME149 | 18 | 342 | 16235358 | 342 | 18856798 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |       |
| 280 | HME149 | 19 | 342 | 18897758 | 342 | 21232478 | 197 | 4  | 45 | 36  | 12 | 0  | RS CVN   |       |
| 281 | HME149 | 20 | 342 | 21355358 | 342 | 21478238 | 197 | 4  | 45 | 36  | 12 | 0  | RS CVN   |       |
| 282 | HME149 | 21 | 342 | 21519198 | 342 | 21846878 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |       |
| 283 | HME149 | 22 | 342 | 21887838 | 342 | 28932959 | 187 | 4  | 15 | 12  | 40 | 0  | M87      |       |
| 284 | HME149 | 23 | 342 | 31349599 | 342 | 31882079 | 187 | 4  | 15 | 12  | 40 | 0  | M87      |       |
| 285 | HME149 | 24 | 342 | 31963999 | 342 | 33028959 | 187 | 4  | 15 | 12  | 40 | 0  | M87      |       |
| 286 | HME149 | 25 | 342 | 33069919 | 342 | 33602399 | 187 | 4  | 15 | 12  | 40 | 0  | M87      |       |
| 287 | HME149 | 26 | 342 | 33643359 | 342 | 34175839 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |       |
| 288 | HME149 | 27 | 342 | 34216799 | 342 | 45194079 | 307 | 38 | 15 | 40  | 47 | 6  | CYG X-3  |       |
| 289 | HME149 | 28 | 342 | 45235039 | 342 | 45357919 | 307 | 38 | 15 | 40  | 47 | 6  | CYG X-3  |       |
| 290 | HME150 | 1  | 342 | 45808479 | 342 | 55352159 | 307 | 38 | 15 | 40  | 47 | 6  | CYG X-3  |       |
| 291 | HME150 | 2  | 342 | 55393119 | 342 | 56539999 | 307 | 38 | 15 | 40  | 47 | 6  | CYG X-3  |       |
| 292 | HME150 | 3  | 342 | 56580959 | 342 | 56785759 | 307 | 38 | 15 | 40  | 47 | 6  | CYG X-3  |       |
| 293 | HME150 | 4  | 342 | 56826719 | 342 | 60267359 | 197 | 17 | 42 | 28  | 13 | 48 | COMA CLU |       |
| 294 | HME150 | 5  | 342 | 60308319 | 342 | 61537119 | 194 | 17 | 42 | 28  | 13 | 48 | COMA CLU |       |
| 295 | HME150 | 6  | 342 | 61578079 | 342 | 62110559 | 194 | 17 | 42 | 28  | 13 | 48 | COMA CLU |       |
| 296 | HME150 | 7  | 342 | 62151519 | 342 | 66288479 | 194 | 17 | 42 | 28  | 13 | 48 | COMA CLU |       |
| 297 | HME150 | 8  | 342 | 66329439 | 342 | 72350559 | 194 | 17 | 42 | 28  | 13 | 48 | COMA CLU |       |
| 298 | HME150 | 9  | 342 | 72391519 | 342 | 78453599 | 194 | 17 | 42 | 28  | 13 | 48 | COMA CLU |       |
| 299 | HME150 | 10 | 342 | 78535519 | 342 | 80091999 | 194 | 17 | 42 | 28  | 13 | 48 | COMA CLU |       |
| 300 | HME150 | 11 | 342 | 85293919 | 343 | 4669279  | 194 | 17 | 42 | 28  | 13 | 48 | COMA CLU |       |
| 301 | HME150 | 12 | 343 | 4710239  | 343 | 4955999  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |       |
| 302 | HME150 | 13 | 343 | 4996959  | 343 | 5898079  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |       |
| 303 | HME150 | 14 | 343 | 5979999  | 343 | 12042079 | 194 | 17 | 42 | 28  | 19 | 48 | COMA CLU |       |
| 304 | HME150 | 15 | 343 | 12123999 | 343 | 13229919 | 194 | 17 | 42 | 28  | 19 | 48 | COMA CLU |       |
| 305 | HME150 | 16 | 343 | 13352799 | 343 | 16097120 | 194 | 17 | 42 | 28  | 19 | 48 | COMA CLU |       |
| 306 | HME150 | 17 | 343 | 16138080 | 343 | 16465760 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |       |
| 307 | HME150 | 18 | 343 | 16506720 | 343 | 18104160 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |       |
| 308 | HME150 | 19 | 343 | 18145120 | 343 | 19414880 | 165 | 25 | 8  | 38  | 28 | 43 | MKN      | 421   |
| 309 | HME150 | 20 | 343 | 19496800 | 343 | 21503840 | 165 | 25 | 8  | 38  | 28 | 43 | MKN      | 421   |
| 310 | HME150 | 21 | 343 | 21544800 | 343 | 22364000 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |       |
| 311 | HME150 | 22 | 343 | 22404960 | 343 | 24207200 | 20  | 24 | 15 | -35 | 19 | 26 | NGC      | 526A  |
| 312 | HME150 | 23 | 343 | 24248160 | 343 | 30146400 | 20  | 24 | 15 | -35 | 19 | 26 | NGC      | 526A  |
| 313 | HME150 | 24 | 343 | 30228320 | 343 | 30474080 | 20  | 24 | 15 | -35 | 19 | 26 | NGC      | 526A  |
| 314 | HME150 | 25 | 343 | 30515040 | 343 | 31088480 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |       |
| 315 | HME150 | 26 | 343 | 31129440 | 343 | 36331360 | 335 | 18 | 29 | -1  | 38 | 34 | 3C       | 445   |
| 316 | HME150 | 27 | 343 | 36372320 | 343 | 42516320 | 335 | 18 | 29 | -1  | 38 | 34 | 3C       | 445   |
| 317 | HME151 | 1  | 343 | 42557280 | 343 | 46776160 | 335 | 18 | 29 | -1  | 38 | 34 | 3C       | 445   |
| 318 | HME151 | 2  | 343 | 46817120 | 343 | 47513440 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |       |
| 319 | HME151 | 3  | 343 | 47554400 | 343 | 48455520 | 194 | 17 | 42 | 28  | 19 | 48 | COMA CLU |       |
| 320 | HME151 | 4  | 343 | 48496480 | 343 | 53739360 | 194 | 17 | 42 | 28  | 19 | 48 | COMA CLU |       |

|     |        |    |     |          |     |          |     |    |    |     |    |    |          |   |      |
|-----|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|---|------|
| 321 | HME151 | 5  | 343 | 53780320 | 343 | 54476640 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | 0 | SLEW |
| 322 | HME151 | 6  | 343 | 54640480 | 343 | 59473760 | 345 | 31 | 45 | -7  | 2  | 41 | MC25822  |   |      |
| 323 | HME151 | 7  | 343 | 59514720 | 343 | 65494880 | 345 | 31 | 45 | -7  | 2  | 41 | MC25822  |   |      |
| 324 | HME151 | 8  | 343 | 65535840 | 343 | 73031520 | 345 | 31 | 45 | -7  | 2  | 41 | MC25822  |   |      |
| 325 | HME151 | 9  | 343 | 73072480 | 343 | 75530080 | 345 | 31 | 45 | -7  | 2  | 41 | MC25822  |   |      |
| 326 | HME151 | 10 | 343 | 75571040 | 343 | 76226400 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |      |
| 327 | HME151 | 11 | 343 | 76267360 | 343 | 77660000 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |      |
| 328 | HME151 | 12 | 343 | 77700960 | 343 | 83353440 | 135 | 3  | 18 | -40 | 21 | 25 | VELA X-1 |   |      |
| 329 | HME151 | 13 | 343 | 83394400 | 343 | 83722080 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |      |
| 330 | HME151 | 14 | 343 | 83763040 | 344 | 803680   | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |      |
| 331 | HME151 | 15 | 344 | 844640   | 344 | 3425120  | 128 | 24 | 45 | -45 | 0  | 19 | VELA P   |   |      |
| 332 | HME151 | 16 | 344 | 3466080  | 344 | 6333281  | 128 | 24 | 45 | -45 | 0  | 19 | VELA P   |   |      |
| 333 | HME151 | 17 | 344 | 6374241  | 344 | 6620001  | 128 | 24 | 45 | -45 | 0  | 19 | VELA P   |   |      |
| 334 | HME151 | 18 | 344 | 6660961  | 344 | 6906721  | 128 | 24 | 45 | -45 | 0  | 19 | VELA P   |   |      |
| 335 | HME151 | 19 | 344 | 7029601  | 344 | 10470241 | 128 | 24 | 45 | -45 | 0  | 19 | VELA P   |   |      |
| 336 | HME151 | 20 | 344 | 10552161 | 344 | 15303521 | 128 | 24 | 45 | -45 | 0  | 19 | VELA P   |   |      |
| 337 | HME151 | 21 | 344 | 15344481 | 344 | 15590241 | 128 | 24 | 45 | -45 | 0  | 19 | VELA P   |   |      |
| 338 | HME151 | 22 | 344 | 15631201 | 344 | 17064801 | 128 | 24 | 45 | -45 | 0  | 19 | VELA P   |   |      |
| 339 | HME151 | 23 | 344 | 17269601 | 344 | 18498401 | 128 | 24 | 45 | -45 | 0  | 19 | VELA P   |   |      |
| 340 | HME151 | 24 | 344 | 18662241 | 344 | 19440481 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |      |
| 341 | HME151 | 25 | 344 | 19481441 | 344 | 21693281 | 325 | 39 | 12 | 38  | 5  | 28 | CYG X-2  |   |      |
| 342 | HME151 | 26 | 344 | 21734241 | 344 | 22512481 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |      |
| 343 | HME151 | 27 | 344 | 22553441 | 344 | 23454561 | 128 | 24 | 45 | -45 | 0  | 19 | VELA P   |   |      |
| 344 | HME151 | 28 | 344 | 23495521 | 344 | 25379681 | 128 | 24 | 45 | -45 | 0  | 19 | VELA P   |   |      |
| 345 | HME151 | 29 | 344 | 25420641 | 344 | 25994081 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |      |
| 346 | HME151 | 30 | 344 | 26035041 | 344 | 29393761 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |      |
| 347 | HME152 | 1  | 344 | 29434721 | 344 | 35537761 | 194 | 17 | 42 | 28  | 7  | 40 | COMA CLU |   |      |
| 348 | HME152 | 2  | 344 | 35578721 | 344 | 41640801 | 194 | 17 | 42 | 28  | 7  | 40 | COMA CLU |   |      |
| 349 | HME152 | 3  | 344 | 41722721 | 344 | 43893601 | 194 | 17 | 42 | 28  | 7  | 40 | COMA CLU |   |      |
| 350 | HME152 | 4  | 344 | 44057441 | 344 | 47743841 | 194 | 17 | 42 | 28  | 7  | 40 | COMA CLU |   |      |
| 351 | HME152 | 5  | 344 | 47784801 | 344 | 53724001 | 194 | 11 | 0  | 28  | 11 | 48 | COMA CLU |   |      |
| 352 | HME152 | 6  | 344 | 53805921 | 344 | 58516321 | 194 | 11 | 0  | 28  | 11 | 48 | COMA CLU |   |      |
| 353 | HME152 | 7  | 344 | 58680161 | 344 | 61014881 | 194 | 11 | 0  | 28  | 11 | 48 | COMA CLU |   |      |
| 354 | HME152 | 8  | 344 | 61178721 | 344 | 64742241 | 194 | 24 | 30 | 28  | 15 | 48 | COMA CLU |   |      |
| 355 | HME152 | 9  | 344 | 64783201 | 344 | 70763361 | 194 | 24 | 30 | 28  | 15 | 48 | COMA CLU |   |      |
| 356 | HME152 | 10 | 344 | 70804321 | 344 | 76866401 | 194 | 24 | 30 | 28  | 15 | 48 | COMA CLU |   |      |
| 357 | HME152 | 11 | 344 | 76907361 | 344 | 82928482 | 194 | 24 | 30 | 28  | 15 | 48 | COMA CLU |   |      |
| 358 | HME152 | 12 | 344 | 82969442 | 345 | 2672482  | 194 | 24 | 30 | 28  | 15 | 48 | COMA CLU |   |      |
| 359 | HME152 | 13 | 345 | 2713442  | 345 | 3860322  | 194 | 24 | 30 | 28  | 15 | 48 | COMA CLU |   |      |
| 360 | HME152 | 14 | 345 | 3901282  | 345 | 8857442  | 194 | 24 | 30 | 28  | 15 | 48 | COMA CLU |   |      |
| 361 | HME152 | 15 | 345 | 8898402  | 345 | 9267042  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |      |
| 362 | HME152 | 16 | 345 | 9308002  | 345 | 10454882 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |      |
| 363 | HME152 | 17 | 345 | 10618722 | 345 | 16476002 | 186 | 50 | 45 | 12  | 44 | 44 | VIRG CLU |   |      |
| 364 | HME152 | 18 | 345 | 16598882 | 345 | 17786722 | 186 | 50 | 45 | 12  | 44 | 44 | VIRG CLU |   |      |
| 365 | HME153 | 1  | 345 | 17868642 | 345 | 22660962 | 186 | 50 | 45 | 12  | 44 | 44 | VIRG CLU |   |      |
| 366 | HME153 | 2  | 345 | 22783842 | 345 | 23725922 | 186 | 50 | 45 | 12  | 44 | 44 | VIRG CLU |   |      |
| 367 | HME153 | 3  | 345 | 23766882 | 345 | 24422242 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |      |
| 368 | HME153 | 4  | 345 | 24463202 | 345 | 26634082 | 325 | 39 | 12 | 38  | 5  | 28 | CYG X-2  |   |      |
| 369 | HME153 | 5  | 345 | 26675042 | 345 | 27289442 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |      |
| 370 | HME153 | 6  | 345 | 27330402 | 345 | 28518242 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |      |
| 371 | HME153 | 7  | 345 | 28641122 | 345 | 31549282 | 186 | 50 | 45 | 12  | 44 | 44 | VIRG CLU |   |      |
| 372 | HME153 | 8  | 345 | 31672162 | 345 | 34744162 | 186 | 50 | 45 | 12  | 44 | 44 | VIRG CLU |   |      |
| 373 | HME153 | 9  | 345 | 34785122 | 345 | 40888162 | 186 | 50 | 45 | 12  | 44 | 44 | VIRG CLU |   |      |
| 374 | HME153 | 10 | 345 | 40929122 | 345 | 46909282 | 187 | 1  | 48 | 12  | 33 | 0  | VIRG CLU |   |      |
| 375 | HME153 | 11 | 345 | 46950242 | 345 | 48670562 | 187 | 1  | 48 | 12  | 33 | 0  | VIRG CLU |   |      |
| 376 | HME153 | 12 | 345 | 48711522 | 345 | 48916322 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |      |
| 377 | HME153 | 13 | 345 | 48957282 | 345 | 53135202 | 186 | 57 | 30 | 12  | 42 | 22 | VIRG CLU |   |      |
| 378 | HME153 | 14 | 345 | 53176162 | 345 | 57845602 | 186 | 57 | 30 | 12  | 42 | 22 | VIRG CLU |   |      |
| 379 | HME153 | 15 | 345 | 57886562 | 345 | 63907682 | 186 | 57 | 30 | 12  | 42 | 22 | VIRG CLU |   |      |
| 380 | HME153 | 16 | 345 | 63948642 | 345 | 65832802 | 186 | 57 | 30 | 12  | 42 | 22 | VIRG CLU |   |      |
| 381 | HME153 | 17 | 345 | 65873762 | 345 | 66037602 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |      |
| 382 | HME153 | 18 | 345 | 66078562 | 345 | 70010722 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |      |
| 383 | HME153 | 19 | 345 | 70133602 | 345 | 76072803 | 187 | 6  | 36 | 12  | 46 | 30 | VIRG CLU |   |      |
| 384 | HME153 | 20 | 345 | 76154723 | 345 | 82134883 | 187 | 6  | 36 | 12  | 46 | 30 | VIRG CLU |   |      |
| 385 | HME153 | 21 | 345 | 82175843 | 345 | 82954083 | 187 | 6  | 36 | 12  | 46 | 30 | VIRG CLU |   |      |
| 386 | HME153 | 22 | 345 | 82995043 | 345 | 83199843 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |      |
| 387 | HME153 | 23 | 345 | 83732323 | 346 | 2247523  | 187 | 9  | 47 | 12  | 38 | 6  | VIRG CLU |   |      |
| 388 | HME164 | 1  | 346 | 2411363  | 346 | 3640163  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |      |
| 389 | HME164 | 2  | 346 | 3681123  | 346 | 9620323  | 187 | 4  | 15 | 12  | 40 | 0  | M87      |   |      |
| 390 | HME164 | 3  | 346 | 9743203  | 346 | 9988963  | 187 | 4  | 15 | 12  | 40 | 0  | M87      |   |      |
| 391 | HME164 | 4  | 346 | 10070883 | 346 | 13347683 | 187 | 4  | 15 | 12  | 40 | 0  | M87      |   |      |
| 392 | HME164 | 5  | 346 | 13634403 | 346 | 19245923 | 187 | 4  | 15 | 12  | 40 | 0  | M87      |   |      |
| 393 | HME164 | 6  | 346 | 19286883 | 346 | 19491683 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |      |
| 394 | HME164 | 7  | 346 | 19532643 | 346 | 20147043 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |      |
| 395 | HME164 | 8  | 346 | 20228963 | 346 | 20474723 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |      |
| 396 | HME164 | 9  | 346 | 20556643 | 346 | 21785443 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |      |
| 397 | HME164 | 10 | 346 | 21826403 | 346 | 22236003 | 187 | 9  | 47 | 12  | 38 | 6  | VIRG CLU |   |      |
| 398 | HME164 | 11 | 346 | 22317923 | 346 | 30796643 | 187 | 9  | 47 | 12  | 38 | 6  | VIRG CLU |   |      |
| 399 | HME164 | 12 | 346 | 30837603 | 346 | 31001443 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |      |
| 400 | HME164 | 13 | 346 | 31042403 | 346 | 35261283 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |      |

|     |        |    |     |          |     |          |     |    |    |     |    |    |          |
|-----|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 401 | HME164 | 14 | 346 | 35343203 | 346 | 42224483 | 187 | 4  | 15 | 12  | 40 | 0  | M87      |
| 402 | HME164 | 15 | 346 | 42265443 | 346 | 42593123 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 403 | HME164 | 16 | 346 | 42634083 | 346 | 44886883 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 404 | HME164 | 17 | 346 | 44968803 | 346 | 52218723 | 186 | 38 | 17 | 2   | 19 | 44 | 3C 273   |
| 405 | HME164 | 18 | 346 | 52259683 | 346 | 52956003 | 186 | 38 | 17 | 2   | 19 | 44 | 3C 273   |
| 406 | HME164 | 19 | 346 | 52996963 | 346 | 53242723 | 186 | 38 | 17 | 2   | 19 | 44 | 3C 273   |
| 407 | HME164 | 20 | 346 | 53283683 | 346 | 58280803 | 186 | 38 | 17 | 2   | 19 | 44 | 3C 273   |
| 408 | HME164 | 21 | 346 | 58321763 | 346 | 63114083 | 186 | 38 | 17 | 2   | 19 | 44 | 3C 273   |
| 409 | HME164 | 22 | 346 | 63155043 | 346 | 65571684 | 186 | 38 | 17 | 2   | 19 | 44 | 3C 273   |
| 410 | HME164 | 23 | 346 | 65612644 | 346 | 65858404 | 186 | 38 | 17 | 2   | 19 | 44 | 3C 273   |
| 411 | HME164 | 24 | 346 | 65899364 | 346 | 68316004 | 186 | 38 | 17 | 2   | 19 | 44 | 3C 273   |
| 412 | HME164 | 25 | 346 | 68356964 | 346 | 74419044 | 186 | 38 | 17 | 2   | 19 | 44 | 3C 273   |
| 413 | HME164 | 26 | 346 | 74460004 | 346 | 77409124 | 186 | 38 | 17 | 2   | 19 | 44 | 3C 273   |
| 414 | HME164 | 27 | 346 | 77450084 | 346 | 77654884 | 186 | 38 | 17 | 2   | 19 | 44 | 3C 273   |
| 415 | HME164 | 28 | 346 | 77695844 | 346 | 81382244 | 186 | 38 | 15 | 2   | 19 | 44 | 3C 273   |
| 416 | HME164 | 29 | 346 | 81423204 | 346 | 82201444 | 186 | 38 | 15 | 2   | 19 | 44 | 3C 273   |
| 417 | HME164 | 30 | 346 | 82242404 | 346 | 82447204 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 418 | HME140 | 1  | 374 | 6567834  | 374 | 7837594  | 84  | 39 | 30 | -64 | 6  | 20 | LMC X-3  |
| 419 | HME140 | 2  | 374 | 7878554  | 374 | 8083354  | 84  | 39 | 30 | -64 | 6  | 20 | LMC X-3  |
| 420 | HME140 | 3  | 374 | 8124314  | 374 | 12056474 | 84  | 39 | 30 | -64 | 6  | 20 | LMC X-3  |
| 421 | HME140 | 4  | 374 | 12097434 | 374 | 12425114 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 422 | HME140 | 5  | 374 | 12466074 | 374 | 12670874 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 423 | HME140 | 6  | 374 | 12711834 | 374 | 14677914 | 139 | 43 | 54 | -54 | 59 | 33 | 0918-549 |
| 424 | HME140 | 7  | 374 | 14718874 | 374 | 15538074 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 425 | HME140 | 8  | 374 | 15579034 | 374 | 16234394 | 350 | 17 | 29 | 58  | 32 | 30 | CAS A    |
| 426 | HME140 | 9  | 374 | 16275354 | 374 | 17790874 | 350 | 17 | 29 | 58  | 32 | 30 | CAS A    |
| 427 | HME140 | 10 | 374 | 17831834 | 374 | 18651034 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 428 | HME140 | 11 | 374 | 18691994 | 374 | 20371354 | 139 | 43 | 54 | -54 | 59 | 33 | 0918-549 |
| 429 | HME140 | 12 | 374 | 20412314 | 374 | 21190554 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 430 | HME140 | 13 | 374 | 21231514 | 374 | 22296474 | 350 | 17 | 29 | 58  | 32 | 30 | CAS A    |
| 431 | HME140 | 14 | 374 | 22337434 | 374 | 23484314 | 5   | 37 | 30 | 63  | 55 | 0  | CAS A    |
| 432 | HME140 | 15 | 374 | 23525274 | 374 | 24344474 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 433 | HME140 | 16 | 374 | 24385434 | 374 | 26105754 | 139 | 43 | 54 | -54 | 59 | 33 | 0918-549 |
| 434 | HME140 | 17 | 374 | 26146714 | 374 | 26924954 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 435 | HME140 | 18 | 374 | 26965914 | 374 | 28399514 | 350 | 17 | 29 | 58  | 32 | 30 | CAS A    |
| 436 | HME140 | 19 | 374 | 28440474 | 374 | 29218714 | 350 | 17 | 29 | 58  | 32 | 30 | CAS A    |
| 437 | HME140 | 20 | 374 | 29259674 | 374 | 30037914 | 139 | 43 | 54 | -54 | 59 | 33 | 0918-549 |
| 438 | HME140 | 21 | 374 | 30078874 | 374 | 31799194 | 139 | 43 | 54 | -54 | 59 | 33 | 0918-549 |
| 439 | HME140 | 22 | 374 | 31840154 | 374 | 32618394 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 440 | HME140 | 23 | 374 | 32659354 | 374 | 34789274 | 350 | 17 | 29 | 58  | 32 | 30 | CAS A    |
| 441 | HME140 | 24 | 374 | 34830234 | 374 | 35649434 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 442 | HME140 | 25 | 374 | 35690394 | 374 | 37001114 | 139 | 43 | 54 | -54 | 59 | 33 | 0918-549 |
| 443 | HME140 | 26 | 374 | 37042074 | 374 | 37492634 | 139 | 43 | 54 | -54 | 59 | 33 | 0918-549 |
| 444 | HME140 | 27 | 374 | 37533594 | 374 | 37943194 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 445 | HME140 | 28 | 374 | 37984154 | 374 | 43104154 | 85  | 1  | 12 | -69 | 46 | 9  | LMC X-1  |
| 446 | HME140 | 29 | 374 | 43227034 | 374 | 47527834 | 85  | 1  | 12 | -69 | 46 | 9  | LMC X-1  |
| 447 | HME140 | 30 | 374 | 47568794 | 374 | 47814554 | 85  | 1  | 12 | -69 | 46 | 9  | LMC X-1  |
| 448 | HME140 | 31 | 374 | 47855514 | 374 | 48879514 | 85  | 1  | 12 | -69 | 46 | 9  | LMC X-1  |
| 449 | HME140 | 32 | 374 | 48920474 | 374 | 49330074 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 450 | HME140 | 33 | 374 | 49371034 | 374 | 49575834 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 451 | HME140 | 34 | 374 | 49616794 | 374 | 50927514 | 350 | 17 | 29 | 58  | 32 | 30 | CAS A    |
| 452 | HME140 | 35 | 374 | 51009434 | 374 | 52238234 | 350 | 17 | 29 | 58  | 32 | 30 | CAS A    |
| 453 | HME140 | 36 | 374 | 52279194 | 374 | 53016474 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 454 | HME140 | 37 | 374 | 53057434 | 374 | 55146394 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 455 | HME140 | 38 | 374 | 55187354 | 374 | 55842714 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 456 | HME140 | 39 | 374 | 55883674 | 374 | 57972634 | 350 | 17 | 29 | 58  | 32 | 30 | CAS A    |
| 457 | HME140 | 40 | 374 | 58013594 | 374 | 58709914 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 458 | HME140 | 41 | 374 | 58750874 | 374 | 60430234 | 192 | 25 | 15 | -28 | 58 | 48 | EX HYDRA |
| 459 | HME140 | 42 | 374 | 60471194 | 374 | 60839834 | 192 | 25 | 15 | -28 | 58 | 48 | EX HYDRA |
| 460 | HME140 | 43 | 374 | 60880794 | 374 | 61536154 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 461 | HME140 | 44 | 374 | 61577114 | 374 | 63666074 | 5   | 37 | 30 | 63  | 55 | 0  | CAS A    |
| 462 | HME140 | 45 | 374 | 63707034 | 374 | 64403354 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 463 | HME140 | 46 | 374 | 64444314 | 374 | 66533274 | 192 | 25 | 15 | -28 | 58 | 48 | EX HYDRA |
| 464 | HME140 | 47 | 374 | 66656154 | 374 | 67270554 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 465 | HME140 | 48 | 374 | 67311514 | 374 | 69564314 | 5   | 37 | 30 | 63  | 55 | 0  | CAS A    |
| 466 | HME140 | 49 | 374 | 69605274 | 374 | 70301594 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 467 | HME140 | 50 | 374 | 70342554 | 374 | 72267674 | 192 | 25 | 15 | -28 | 58 | 48 | EX HYDRA |
| 468 | HME140 | 51 | 374 | 72308634 | 374 | 72677274 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 469 | HME140 | 52 | 374 | 72718234 | 374 | 72923034 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 470 | HME140 | 53 | 374 | 72963994 | 374 | 75175835 | 5   | 37 | 30 | 63  | 55 | 0  | CAS A    |
| 471 | HME140 | 54 | 374 | 75216795 | 374 | 75995035 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 472 | HME140 | 55 | 374 | 76035995 | 374 | 77715355 | 174 | 8  | 14 | -37 | 27 | 40 | NGC 3783 |
| 473 | HME140 | 56 | 374 | 77756315 | 374 | 78124955 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 474 | HME140 | 57 | 374 | 78165915 | 374 | 78739355 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 475 | HME141 | 1  | 374 | 78739355 | 374 | 84801435 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 476 | HME141 | 2  | 374 | 84842395 | 375 | 13095595 | 83  | 14 | 30 | -66 | 24 | 54 | LMC X-4  |
| 477 | HME141 | 3  | 375 | 13505555 | 375 | 15553555 | 83  | 14 | 30 | -66 | 24 | 54 | LMC X-4  |
| 478 | HME141 | 4  | 375 | 15963155 | 375 | 57332755 | 83  | 14 | 30 | -66 | 24 | 54 | LMC X-4  |
| 479 | HME141 | 5  | 375 | 57742355 | 375 | 67572755 | 83  | 14 | 30 | -66 | 24 | 54 | LMC X-4  |
| 480 | HME141 | 6  | 375 | 67982355 | 375 | 71668755 | 83  | 14 | 30 | -66 | 24 | 54 | LMC X-4  |

|     |        |    |     |          |     |          |     |    |    |     |    |    |          |
|-----|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 481 | HME141 | 7  | 375 | 7207835  | 375 | 7945115  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 482 | HME141 | 8  | 375 | 7986075  | 375 | 11590555 | 5   | 32 | 30 | 63  | 51 | 0  | TYCHO 64 |
| 483 | HME141 | 9  | 375 | 11631515 | 375 | 11877275 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 484 | HME141 | 10 | 375 | 11918235 | 375 | 12368795 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 485 | HME141 | 11 | 375 | 12409755 | 375 | 14171035 | 174 | 8  | 14 | -37 | 27 | 40 | NGC 3783 |
| 486 | HME141 | 12 | 375 | 14211995 | 375 | 14908315 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 487 | HME141 | 13 | 375 | 14949275 | 375 | 15399835 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 488 | HME141 | 14 | 375 | 15440795 | 375 | 17365915 | 5   | 32 | 30 | 63  | 51 | 0  | TYCHO 64 |
| 489 | HME141 | 15 | 375 | 17406875 | 375 | 17529755 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 490 | HME141 | 16 | 375 | 17570715 | 375 | 21502875 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 491 | HME141 | 17 | 375 | 21707675 | 375 | 23018395 | 5   | 37 | 30 | 63  | 55 | 0  | TYCHO 67 |
| 492 | HME141 | 18 | 375 | 23059355 | 375 | 23878555 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 493 | HME141 | 19 | 375 | 23919515 | 375 | 25557915 | 174 | 8  | 14 | -37 | 27 | 40 | NGC 3783 |
| 494 | HME141 | 20 | 375 | 25598875 | 375 | 26336155 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 495 | HME141 | 21 | 375 | 26377115 | 375 | 27564955 | 5   | 37 | 30 | 63  | 51 | 0  | TYCHO 65 |
| 496 | HME141 | 22 | 375 | 27605915 | 375 | 28711835 | 5   | 37 | 30 | 63  | 51 | 0  | TYCHO 65 |
| 497 | HME141 | 23 | 375 | 28752795 | 375 | 29531035 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 498 | HME141 | 24 | 375 | 29571995 | 375 | 31292315 | 174 | 8  | 14 | -37 | 27 | 40 | NGC 3783 |
| 499 | HME141 | 25 | 375 | 31333275 | 375 | 32029595 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 500 | HME141 | 26 | 375 | 32070555 | 375 | 32848795 | 5   | 37 | 30 | 63  | 51 | 0  | TYCHO 65 |
| 501 | HME141 | 27 | 375 | 32889755 | 375 | 34487195 | 5   | 37 | 30 | 63  | 51 | 0  | TYCHO 65 |
| 502 | HME141 | 28 | 375 | 34528155 | 375 | 35306395 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 503 | HME141 | 29 | 375 | 35347355 | 375 | 36985755 | 174 | 8  | 14 | -37 | 27 | 40 | NGC 3783 |
| 504 | HME141 | 30 | 375 | 37026715 | 375 | 37395355 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 505 | HME141 | 31 | 375 | 37436315 | 375 | 38910875 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 506 | HME141 | 32 | 375 | 38910875 | 375 | 42433435 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 507 | HME141 | 33 | 375 | 43129755 | 375 | 43293595 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 508 | HME141 | 34 | 375 | 43457435 | 375 | 45177755 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 509 | HME141 | 35 | 375 | 45341595 | 375 | 47184795 | 80  | 17 | 15 | -72 | 0  | 7  | LMC X-2  |
| 510 | HME141 | 36 | 375 | 47225755 | 375 | 47471515 | 80  | 17 | 15 | -72 | 0  | 7  | LMC X-2  |
| 511 | HME141 | 37 | 375 | 47512475 | 375 | 48085915 | 80  | 17 | 15 | -72 | 0  | 7  | LMC X-2  |
| 512 | HME141 | 38 | 375 | 48126875 | 375 | 48536475 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 513 | HME141 | 39 | 375 | 48577435 | 375 | 48782235 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 514 | HME141 | 40 | 375 | 48823195 | 375 | 51526555 | 5   | 37 | 30 | 63  | 47 | 60 | TYCHO 66 |
| 515 | HME141 | 41 | 375 | 51567515 | 375 | 52345755 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 516 | HME141 | 42 | 375 | 52386715 | 375 | 53574555 | 174 | 8  | 14 | -37 | 27 | 40 | NGC 3783 |
| 517 | HME141 | 43 | 375 | 53615515 | 375 | 54107035 | 174 | 8  | 14 | -37 | 27 | 40 | NGC 3783 |
| 518 | HME141 | 44 | 375 | 54147995 | 375 | 54844315 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 519 | HME141 | 45 | 375 | 54885275 | 375 | 57301915 | 5   | 37 | 30 | 63  | 47 | 60 | TYCHO 66 |
| 520 | HME141 | 46 | 375 | 57342875 | 375 | 57465755 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 521 | HME141 | 47 | 375 | 57506715 | 375 | 59677595 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 522 | HME141 | 48 | 375 | 59718555 | 375 | 62954395 | 5   | 37 | 30 | 63  | 51 | 60 | TYCHO 65 |
| 523 | HME141 | 49 | 375 | 62995355 | 375 | 63814555 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 524 | HME141 | 50 | 375 | 63855515 | 375 | 65493915 | 174 | 8  | 14 | -37 | 27 | 40 | NGC 3783 |
| 525 | HME141 | 51 | 375 | 65534875 | 375 | 65821595 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 526 | HME141 | 52 | 375 | 65862555 | 375 | 66272155 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 527 | HME141 | 53 | 375 | 66313115 | 375 | 68647836 | 5   | 45 | 0  | 63  | 50 | 60 | TYCHO 63 |
| 528 | HME142 | 1  | 375 | 68688796 | 375 | 69467036 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 529 | HME142 | 2  | 375 | 69507996 | 375 | 71228316 | 174 | 8  | 14 | -37 | 27 | 40 | NGC 3783 |
| 530 | HME142 | 3  | 375 | 71269276 | 375 | 71883676 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 531 | HME142 | 4  | 375 | 72006556 | 375 | 77904796 | 5   | 45 | 0  | 63  | 50 | 60 | TYCHO 63 |
| 532 | HME142 | 5  | 375 | 77945756 | 375 | 79215516 | 5   | 45 | 0  | 63  | 50 | 60 | TYCHO 63 |
| 533 | HME142 | 6  | 375 | 79256476 | 375 | 79502236 | 5   | 45 | 0  | 63  | 50 | 60 | TYCHO 63 |
| 534 | HME142 | 7  | 375 | 79543196 | 375 | 79747996 | 5   | 45 | 0  | 63  | 50 | 60 | TYCHO 63 |
| 535 | HME142 | 8  | 375 | 79788956 | 375 | 80485276 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 536 | HME142 | 9  | 375 | 80485276 | 375 | 82328476 | 139 | 43 | 54 | -54 | 59 | 33 | 0918-549 |
| 537 | HME142 | 10 | 375 | 82492316 | 375 | 83966876 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 538 | HME142 | 11 | 375 | 84007836 | 375 | 86383516 | 193 | 43 | 54 | -54 | 59 | 33 | 0918-549 |
| 539 | HME142 | 12 | 376 | 24476    | 376 | 229276   | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 540 | HME142 | 13 | 381 | 81335202 | 381 | 81785762 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 541 | HME142 | 14 | 381 | 81826722 | 382 | 3536802  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 542 | HME142 | 15 | 382 | 3577762  | 382 | 4519842  | 213 | 55 | 48 | 25  | 22 | 0  | NGC 5548 |
| 543 | HME142 | 16 | 382 | 4560802  | 382 | 4806562  | 213 | 55 | 48 | 25  | 22 | 0  | NGC 5548 |
| 544 | HME142 | 17 | 382 | 4847522  | 382 | 9598882  | 213 | 55 | 48 | 25  | 22 | 0  | NGC 5548 |
| 545 | HME142 | 18 | 382 | 9639842  | 382 | 14063522 | 213 | 55 | 48 | 25  | 22 | 0  | NGC 5548 |
| 546 | HME142 | 19 | 382 | 14104482 | 382 | 14350242 | 213 | 55 | 48 | 25  | 22 | 0  | NGC 5548 |
| 547 | HME142 | 20 | 382 | 14391202 | 382 | 15292322 | 213 | 55 | 48 | 25  | 22 | 0  | NGC 5548 |
| 548 | HME142 | 21 | 382 | 15333282 | 382 | 15701922 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 549 | HME142 | 22 | 382 | 15783842 | 382 | 20944803 | 190 | 30 | 0  | -40 | 44 | 60 | CEN II   |
| 550 | HME142 | 23 | 382 | 20985763 | 382 | 27047843 | 190 | 30 | 0  | -40 | 44 | 60 | CEN II   |
| 551 | HME142 | 24 | 382 | 27211683 | 382 | 27457443 | 190 | 30 | 0  | -40 | 44 | 60 | CEN II   |
| 552 | HME142 | 25 | 382 | 27498403 | 382 | 33150883 | 190 | 30 | 0  | -40 | 44 | 60 | CEN II   |
| 553 | HME142 | 26 | 382 | 33191843 | 382 | 38188963 | 190 | 30 | 0  | -40 | 44 | 60 | CEN II   |
| 554 | HME142 | 27 | 382 | 38229923 | 382 | 38475683 | 190 | 30 | 0  | -40 | 44 | 60 | CEN II   |
| 555 | HME142 | 28 | 382 | 38516643 | 382 | 41670563 | 190 | 30 | 0  | -40 | 44 | 60 | CEN II   |
| 556 | HME143 | 1  | 382 | 41670563 | 382 | 47814563 | 190 | 30 | 0  | -40 | 44 | 60 | CEN II   |
| 557 | HME143 | 2  | 382 | 47855523 | 382 | 48142243 | 190 | 30 | 0  | -40 | 44 | 60 | CEN II   |
| 558 | HME143 | 3  | 382 | 48183203 | 382 | 48388003 | 190 | 30 | 0  | -40 | 44 | 60 | CEN II   |
| 559 | HME143 | 4  | 382 | 48428963 | 382 | 48797603 | 190 | 30 | 0  | -40 | 44 | 60 | CEN II   |
| 560 | HME143 | 5  | 382 | 48879523 | 382 | 58587043 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |

|     |        |    |     |          |     |          |     |    |    |     |    |    |          |   |
|-----|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|---|
| 561 | HME143 | 6  | 382 | 58628003 | 382 | 58873763 | 191 | 30 | 30 | -41 | 6  | 9  | CEN      | I |
| 562 | HME143 | 7  | 382 | 58914723 | 382 | 59938723 | 191 | 30 | 30 | -41 | 6  | 9  | CEN      | I |
| 563 | HME143 | 8  | 382 | 59979683 | 382 | 66041763 | 191 | 30 | 30 | -41 | 6  | 9  | CEN      | I |
| 564 | HME143 | 9  | 382 | 66082723 | 382 | 69359523 | 191 | 30 | 30 | -41 | 6  | 9  | CEN      | I |
| 565 | HME143 | 10 | 382 | 69400483 | 382 | 69646243 | 191 | 30 | 30 | -41 | 6  | 9  | CEN      | I |
| 566 | HME143 | 11 | 382 | 69687203 | 382 | 72062883 | 191 | 30 | 30 | -41 | 6  | 9  | CEN      | I |
| 567 | HME143 | 12 | 382 | 72103843 | 382 | 73045923 | 191 | 30 | 30 | -41 | 6  | 9  | CEN      | I |
| 568 | HME143 | 13 | 382 | 73086883 | 382 | 76486563 | 191 | 30 | 30 | -41 | 6  | 9  | CEN      | I |
| 569 | HME143 | 14 | 382 | 76527523 | 382 | 77060003 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |
| 570 | HME143 | 15 | 382 | 77100963 | 382 | 77387683 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |
| 571 | HME143 | 16 | 382 | 77428643 | 382 | 82261923 | 18  | 41 | 5  | 65  | 1  | 34 | 0114+G5  |   |
| 572 | HME143 | 17 | 382 | 83122083 | 382 | 85497763 | 18  | 41 | 5  | 65  | 1  | 34 | 0114+G5  |   |
| 573 | HME143 | 18 | 382 | 85538723 | 383 | 2702243  | 18  | 41 | 5  | 65  | 1  | 34 | 0114+G5  |   |
| 574 | HME143 | 19 | 383 | 2743203  | 383 | 4340643  | 18  | 41 | 5  | 65  | 1  | 34 | 0114+G5  |   |
| 575 | HME143 | 20 | 383 | 4381603  | 383 | 4627363  | 18  | 41 | 5  | 65  | 1  | 34 | 0114+G5  |   |
| 576 | HME143 | 21 | 383 | 4668323  | 383 | 8764323  | 18  | 41 | 5  | 65  | 1  | 34 | 0114+G5  |   |
| 577 | HME143 | 22 | 383 | 8805283  | 383 | 12737443 | 18  | 41 | 5  | 65  | 1  | 34 | 0114+G5  |   |
| 578 | HME143 | 23 | 383 | 12778403 | 383 | 13024163 | 18  | 41 | 5  | 65  | 1  | 34 | 0114+G5  |   |
| 579 | HME143 | 24 | 383 | 13065123 | 383 | 17529764 | 18  | 41 | 5  | 65  | 1  | 34 | 0114+G5  |   |
| 580 | HME143 | 25 | 383 | 17570724 | 383 | 21461924 | 18  | 41 | 5  | 65  | 1  | 34 | 0114+G5  |   |
| 581 | HME143 | 26 | 383 | 21502884 | 383 | 21748644 | 18  | 41 | 5  | 65  | 1  | 34 | 0114+G5  |   |
| 582 | HME143 | 27 | 383 | 21789604 | 383 | 23468964 | 18  | 41 | 5  | 65  | 1  | 34 | 0114+G5  |   |
| 583 | HME143 | 28 | 383 | 23509924 | 383 | 26295204 | 18  | 41 | 5  | 65  | 1  | 34 | 0114+G5  |   |
| 584 | HME143 | 29 | 383 | 26336164 | 383 | 27769764 | 18  | 41 | 5  | 65  | 1  | 34 | 0114+G5  |   |
| 585 | HME143 | 30 | 383 | 27810724 | 383 | 28384164 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |
| 586 | HME143 | 31 | 383 | 28425124 | 383 | 32316324 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |
| 587 | HME144 | 1  | 383 | 32357284 | 383 | 35183524 | 206 | 38 | 38 | 26  | 50 | 24 | A1795    |   |
| 588 | HME144 | 2  | 383 | 35347364 | 383 | 37723044 | 206 | 38 | 38 | 26  | 50 | 24 | A1795    |   |
| 589 | HME144 | 3  | 383 | 37804964 | 383 | 38009764 | 206 | 38 | 38 | 26  | 50 | 24 | A1795    |   |
| 590 | HME144 | 4  | 383 | 38050724 | 383 | 40754084 | 206 | 38 | 38 | 26  | 50 | 24 | A1795    |   |
| 591 | HME144 | 5  | 383 | 40876964 | 383 | 43006884 | 206 | 38 | 38 | 26  | 50 | 24 | A1795    |   |
| 592 | HME144 | 6  | 383 | 43129764 | 383 | 47225764 | 206 | 38 | 38 | 26  | 50 | 24 | A1795    |   |
| 593 | HME144 | 7  | 383 | 47266724 | 383 | 47922084 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |
| 594 | HME144 | 8  | 383 | 47963044 | 383 | 53083044 | 13  | 25 | 5  | 60  | 26 | 47 | GAM CAS  |   |
| 595 | HME144 | 9  | 383 | 53124004 | 383 | 56605604 | 13  | 25 | 5  | 60  | 26 | 47 | GAM CAS  |   |
| 596 | HME144 | 10 | 383 | 56646564 | 383 | 56892324 | 13  | 25 | 5  | 60  | 26 | 47 | GAM CAS  |   |
| 597 | HME144 | 11 | 383 | 56933284 | 383 | 58284964 | 13  | 25 | 5  | 60  | 26 | 47 | GAM CAS  |   |
| 598 | HME144 | 12 | 383 | 58325924 | 383 | 62340004 | 13  | 25 | 5  | 60  | 26 | 47 | GAM CAS  |   |
| 599 | HME144 | 13 | 383 | 62380964 | 383 | 63118244 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |
| 600 | HME144 | 14 | 383 | 63159204 | 383 | 65125284 | 206 | 19 | 30 | -30 | 5  | 60 | IC4329A  |   |
| 601 | HME144 | 15 | 383 | 65166244 | 383 | 69958564 | 206 | 19 | 30 | -30 | 5  | 60 | IC4329A  |   |
| 602 | HME144 | 16 | 383 | 69999524 | 383 | 70695844 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |
| 603 | HME144 | 17 | 383 | 70736804 | 383 | 72539044 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |
| 604 | HME144 | 18 | 383 | 72580004 | 383 | 76102564 | 23  | 30 | 15 | -18 | 28 | 0  | UV CETI  |   |
| 605 | HME144 | 19 | 383 | 76143524 | 383 | 78724004 | 23  | 30 | 15 | -18 | 28 | 0  | UV CETI  |   |
| 606 | HME144 | 20 | 383 | 78764964 | 383 | 81550244 | 23  | 30 | 15 | -18 | 28 | 0  | UV CETI  |   |
| 607 | HME144 | 21 | 383 | 81673124 | 383 | 81918884 | 23  | 30 | 15 | -18 | 28 | 0  | UV CETI  |   |
| 608 | HME144 | 22 | 383 | 81918884 | 383 | 85769124 | 23  | 30 | 15 | -18 | 28 | 0  | UV CETI  |   |
| 609 | HME144 | 23 | 383 | 85810084 | 383 | 86014884 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |
| 610 | HME179 | 1  | 390 | 178091   | 390 | 710571   | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |
| 611 | HME179 | 2  | 390 | 751531   | 390 | 2963371  | 253 | 3  | 29 | 39  | 47 | 6  | MK 501   |   |
| 612 | HME179 | 3  | 390 | 3004331  | 390 | 4069291  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |
| 613 | HME179 | 4  | 390 | 4110251  | 390 | 5461931  | 52  | 55 | 30 | -36 | 18 | 18 | NGC 1365 |   |
| 614 | HME179 | 5  | 390 | 5502891  | 390 | 5707691  | 52  | 55 | 30 | -36 | 18 | 18 | NGC 1365 |   |
| 615 | HME179 | 6  | 390 | 5748651  | 390 | 6485931  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |
| 616 | HME179 | 7  | 390 | 6526891  | 390 | 8533931  | 253 | 3  | 29 | 39  | 47 | 6  | MK 501   |   |
| 617 | HME179 | 8  | 390 | 8574891  | 390 | 9680811  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |
| 618 | HME179 | 9  | 390 | 9721771  | 390 | 11401131 | 52  | 55 | 30 | -36 | 18 | 18 | NGC 1365 |   |
| 619 | HME179 | 10 | 390 | 11442091 | 390 | 12261291 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |
| 620 | HME179 | 11 | 390 | 12302251 | 390 | 14186411 | 253 | 3  | 29 | 39  | 47 | 6  | MK 501   |   |
| 621 | HME179 | 12 | 390 | 14227371 | 390 | 15087531 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |
| 622 | HME179 | 13 | 390 | 15128491 | 390 | 15374251 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |
| 623 | HME179 | 14 | 390 | 15415211 | 390 | 17135531 | 52  | 55 | 30 | -36 | 18 | 18 | NGC 1365 |   |
| 624 | HME179 | 15 | 390 | 17176491 | 390 | 17954731 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |
| 625 | HME179 | 16 | 390 | 17995691 | 390 | 19961771 | 253 | 3  | 29 | 39  | 47 | 6  | MK 501   |   |
| 626 | HME179 | 17 | 390 | 20002731 | 390 | 20371371 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |
| 627 | HME179 | 18 | 390 | 20412331 | 390 | 21067691 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |
| 628 | HME179 | 19 | 390 | 21108651 | 390 | 22828971 | 52  | 55 | 30 | -36 | 18 | 18 | NGC 1365 |   |
| 629 | HME179 | 20 | 390 | 22869931 | 390 | 23648171 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |
| 630 | HME179 | 21 | 390 | 23689131 | 390 | 25655211 | 253 | 3  | 29 | 39  | 47 | 6  | MK 501   |   |
| 631 | HME179 | 22 | 390 | 25696171 | 390 | 26761131 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |
| 632 | HME179 | 23 | 390 | 26802091 | 390 | 28522411 | 52  | 55 | 30 | -36 | 18 | 18 | NGC 1365 |   |
| 633 | HME179 | 24 | 390 | 28563371 | 390 | 28891051 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |
| 634 | HME179 | 25 | 390 | 29792171 | 390 | 34994091 | 176 | 23 | 50 | -61 | 55 | 49 | 1145-61  |   |
| 635 | HME179 | 26 | 390 | 35035051 | 390 | 40400811 | 176 | 23 | 50 | -61 | 55 | 49 | 1145-61  |   |
| 636 | HME179 | 27 | 390 | 40441771 | 390 | 40769451 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |
| 637 | HME179 | 28 | 390 | 40810411 | 390 | 41138091 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |   |
| 638 | HME179 | 29 | 390 | 41179051 | 390 | 47118251 | 176 | 23 | 50 | -61 | 55 | 49 | 301-2    |   |
| 639 | HME179 | 30 | 390 | 47159211 | 390 | 51787692 | 176 | 23 | 50 | -61 | 55 | 49 | 301-2    |   |
| 640 | HME179 | 31 | 390 | 51828652 | 390 | 52443052 | 222 | 16 | 12 | 19  | 18 | 27 | XI BOOTE |   |

|     |        |    |     |          |     |          |     |    |    |     |    |    |         |       |
|-----|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|---------|-------|
| 641 | HME179 | 32 | 390 | 52484012 | 390 | 52934572 | 222 | 16 | 12 | 19  | 18 | 27 | XI      | BOOTE |
| 642 | HME179 | 33 | 390 | 52975532 | 390 | 53221292 | 222 | 16 | 12 | 19  | 18 | 27 | XI      | BOOTE |
| 643 | HME179 | 34 | 390 | 53262252 | 390 | 54122412 | 222 | 16 | 12 | 19  | 18 | 27 | XI      | BOOTE |
| 644 | HME179 | 35 | 390 | 54163372 | 390 | 55187372 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 645 | HME179 | 36 | 390 | 55228332 | 390 | 56825772 | 52  | 55 | 30 | -36 | 18 | 18 | NGC     | 1365  |
| 646 | HME179 | 37 | 390 | 56866732 | 390 | 57563052 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 647 | HME179 | 38 | 390 | 57604012 | 390 | 59692972 | 222 | 16 | 12 | 19  | 18 | 27 | XI      | BOOTE |
| 648 | HME179 | 39 | 390 | 59733932 | 390 | 60757932 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 649 | HME179 | 40 | 390 | 60798892 | 390 | 62560172 | 52  | 55 | 30 | -36 | 18 | 18 | NGC     | 1365  |
| 650 | HME179 | 41 | 390 | 62601132 | 390 | 63297452 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 651 | HME179 | 42 | 390 | 63338412 | 390 | 65386412 | 222 | 16 | 12 | 19  | 18 | 27 | XI      | BOOTE |
| 652 | HME179 | 43 | 390 | 65427372 | 390 | 66451372 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 653 | HME179 | 44 | 390 | 66492332 | 390 | 66656172 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 654 | HME179 | 45 | 390 | 66697132 | 390 | 68253612 | 52  | 55 | 30 | -36 | 18 | 18 | NGC     | 1365  |
| 655 | HME179 | 46 | 390 | 68294572 | 390 | 68949932 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 656 | HME179 | 47 | 390 | 68990892 | 390 | 70178732 | 222 | 16 | 12 | 19  | 18 | 27 | XI      | BOOTE |
| 657 | HME179 | 48 | 390 | 70219692 | 390 | 71079852 | 222 | 16 | 12 | 19  | 18 | 27 | XI      | BOOTE |
| 658 | HME179 | 49 | 390 | 71120812 | 390 | 72144812 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 659 | HME179 | 50 | 390 | 72185772 | 390 | 73947052 | 52  | 55 | 30 | -36 | 18 | 18 | NGC     | 1365  |
| 660 | HME179 | 51 | 390 | 73988012 | 390 | 74684332 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 661 | HME178 | 1  | 390 | 74725292 | 390 | 76281772 | 222 | 16 | 12 | 19  | 18 | 27 | XI      | BOOTE |
| 662 | HME178 | 2  | 390 | 76322732 | 390 | 76814252 | 222 | 16 | 12 | 19  | 18 | 27 | XI      | BOOTE |
| 663 | HME178 | 3  | 390 | 76855212 | 390 | 77879212 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 664 | HME178 | 4  | 390 | 77920172 | 390 | 79681452 | 52  | 55 | 30 | -36 | 18 | 18 | NGC     | 1365  |
| 665 | HME178 | 5  | 390 | 79722412 | 390 | 80418732 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 666 | HME178 | 6  | 390 | 80459692 | 390 | 82343852 | 253 | 3  | 29 | 39  | 47 | 6  | MK      | 501   |
| 667 | HME178 | 7  | 390 | 82384812 | 390 | 82835372 | 253 | 3  | 29 | 39  | 47 | 6  | MK      | 501   |
| 668 | HME178 | 8  | 390 | 82876332 | 390 | 83941292 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 669 | HME178 | 9  | 390 | 83982252 | 390 | 85579692 | 52  | 55 | 30 | -36 | 18 | 18 | NGC     | 1365  |
| 670 | HME178 | 10 | 390 | 85620652 | 391 | 39852    | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 671 | HME156 | 1  | 391 | 80812    | 391 | 2046892  | 253 | 3  | 29 | 39  | 47 | 6  | MK      | 501   |
| 672 | HME156 | 2  | 391 | 2087852  | 391 | 2620332  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 673 | HME156 | 3  | 391 | 2661292  | 391 | 4586412  | 193 | 34 | 56 | -69 | 1  | 3  | 1254-69 |       |
| 674 | HME156 | 4  | 391 | 4627372  | 391 | 10689452 | 193 | 34 | 56 | -69 | 1  | 3  | 1254-69 |       |
| 675 | HME156 | 5  | 391 | 10730412 | 391 | 12655532 | 193 | 34 | 56 | -69 | 1  | 3  | 1254-69 |       |
| 676 | HME156 | 6  | 391 | 12696492 | 391 | 13188012 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 677 | HME156 | 7  | 391 | 13228972 | 391 | 13392812 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 678 | HME156 | 8  | 391 | 13433772 | 391 | 16423852 | 52  | 55 | 30 | -36 | 18 | 18 | NGC     | 1365  |
| 679 | HME156 | 9  | 391 | 16464812 | 391 | 17529772 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 680 | HME156 | 10 | 391 | 17570732 | 391 | 19168172 | 253 | 3  | 29 | 39  | 47 | 6  | MK      | 501   |
| 681 | HME156 | 11 | 391 | 19209132 | 391 | 19536812 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 682 | HME156 | 12 | 391 | 20192172 | 391 | 21994412 | 52  | 55 | 30 | -36 | 18 | 18 | NGC     | 1365  |
| 683 | HME156 | 13 | 391 | 22035372 | 391 | 23141292 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 684 | HME156 | 14 | 391 | 23182252 | 391 | 24861612 | 253 | 3  | 29 | 39  | 47 | 6  | MK      | 501   |
| 685 | HME156 | 15 | 391 | 24902572 | 391 | 25189292 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 686 | HME156 | 16 | 391 | 25230252 | 391 | 28015532 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 687 | HME156 | 17 | 391 | 28097452 | 391 | 30800812 | 246 | 43 | 51 | 39  | 39 | 36 | A2199   |       |
| 688 | HME156 | 18 | 391 | 30841772 | 391 | 31660972 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 689 | HME156 | 19 | 391 | 31701932 | 391 | 33299372 | 44  | 3  | 0  | 13  | 25 | 0  | A401    |       |
| 690 | HME156 | 20 | 391 | 33340332 | 391 | 33954732 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 691 | HME156 | 21 | 391 | 33995692 | 391 | 34118572 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 692 | HME156 | 22 | 391 | 34159532 | 391 | 36207532 | 246 | 43 | 51 | 39  | 39 | 36 | A2199   |       |
| 693 | HME156 | 23 | 391 | 36248492 | 391 | 37067692 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 694 | HME156 | 24 | 391 | 37108652 | 391 | 38992812 | 44  | 3  | 0  | 13  | 25 | 0  | A401    |       |
| 695 | HME156 | 25 | 391 | 39033772 | 391 | 39648172 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 696 | HME156 | 26 | 391 | 39689132 | 391 | 40262572 | 246 | 43 | 51 | 39  | 39 | 36 | A2199   |       |
| 697 | HME156 | 27 | 391 | 40303532 | 391 | 41900972 | 246 | 43 | 51 | 39  | 39 | 36 | A2199   |       |
| 698 | HME156 | 28 | 391 | 41941932 | 391 | 42761132 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 699 | HME156 | 29 | 391 | 42802092 | 391 | 44727213 | 44  | 3  | 0  | 13  | 25 | 0  | A401    |       |
| 700 | HME156 | 30 | 391 | 44768173 | 391 | 45382573 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 701 | HME156 | 31 | 391 | 45423533 | 391 | 46283693 | 246 | 43 | 51 | 39  | 39 | 36 | A2199   |       |
| 702 | HME156 | 32 | 391 | 46324653 | 391 | 47635373 | 246 | 43 | 51 | 39  | 39 | 36 | A2199   |       |
| 703 | HME156 | 33 | 391 | 47676333 | 391 | 48454573 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 704 | HME156 | 34 | 391 | 48495533 | 391 | 50420653 | 44  | 3  | 0  | 13  | 25 | 0  | A401    |       |
| 705 | HME156 | 35 | 391 | 50461613 | 391 | 51076013 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 706 | HME156 | 36 | 391 | 51116973 | 391 | 53328813 | 246 | 43 | 51 | 39  | 39 | 36 | A2199   |       |
| 707 | HME156 | 37 | 391 | 53369773 | 391 | 53697453 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 708 | HME156 | 38 | 391 | 53738413 | 391 | 53902253 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 709 | HME156 | 39 | 391 | 53943213 | 391 | 57220013 | 194 | 32 | 45 | -61 | 20 | 6  | 1258-61 |       |
| 710 | HME156 | 40 | 391 | 57260973 | 391 | 62176173 | 194 | 32 | 45 | -61 | 20 | 6  | 1258-61 |       |
| 711 | HME156 | 41 | 391 | 62217133 | 391 | 62831533 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 712 | HME156 | 42 | 391 | 62872493 | 391 | 63282093 | 246 | 43 | 51 | 39  | 39 | 36 | A2199   |       |
| 713 | HME156 | 43 | 391 | 63364013 | 391 | 65043373 | 246 | 43 | 51 | 39  | 39 | 36 | A2199   |       |
| 714 | HME156 | 44 | 391 | 65084333 | 391 | 65780653 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 715 | HME156 | 45 | 391 | 65944493 | 391 | 67541933 | 44  | 3  | 0  | 13  | 25 | 0  | A401    |       |
| 716 | HME156 | 46 | 391 | 67582893 | 391 | 68197293 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 717 | HME156 | 47 | 391 | 68238253 | 391 | 69385133 | 246 | 43 | 51 | 39  | 39 | 36 | A2199   |       |
| 718 | HME156 | 48 | 391 | 69426093 | 391 | 70450093 | 246 | 43 | 51 | 39  | 39 | 36 | A2199   |       |
| 719 | HME156 | 49 | 391 | 70491053 | 391 | 71310253 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |       |
| 720 | HME156 | 50 | 391 | 71351213 | 391 | 73235373 | 44  | 3  | 0  | 13  | 25 | 0  | A401    |       |

|     |        |    |     |          |     |          |     |    |    |     |    |    |          |
|-----|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 721 | HME156 | 51 | 391 | 73276333 | 391 | 73890733 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 722 | HME145 | 1  | 395 | 84274097 | 395 | 84478897 | 219 | 15 | 0  | -62 | 28 | 0  | MSH14-63 |
| 723 | HME145 | 2  | 395 | 84519857 | 396 | 3116977  | 219 | 15 | 0  | -62 | 28 | 0  | MSH14-63 |
| 724 | HME145 | 3  | 396 | 3157937  | 396 | 4632497  | 219 | 15 | 0  | -62 | 28 | 0  | MSH14-53 |
| 725 | HME145 | 4  | 396 | 4673457  | 396 | 4919217  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 726 | HME145 | 5  | 396 | 4960177  | 396 | 8851377  | 194 | 32 | 45 | -61 | 20 | 6  | 1258-61  |
| 727 | HME145 | 6  | 396 | 9834417  | 396 | 17698738 | 194 | 32 | 45 | -61 | 20 | 6  | 1258-61  |
| 728 | HME145 | 7  | 396 | 17739698 | 396 | 19132338 | 194 | 32 | 45 | -61 | 20 | 6  | 1258-61  |
| 729 | HME145 | 8  | 396 | 19173298 | 396 | 19787698 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 730 | HME145 | 9  | 396 | 19828658 | 396 | 22818738 | 53  | 33 | 17 | 0   | 25 | 29 | GO-9252  |
| 731 | HME145 | 10 | 396 | 22859698 | 396 | 23351218 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 732 | HME145 | 11 | 396 | 23392178 | 396 | 23801778 | 160 | 46 | 45 | -59 | 25 | 16 | ETA CAR  |
| 733 | HME145 | 12 | 396 | 23842738 | 396 | 30027698 | 160 | 46 | 45 | -59 | 25 | 16 | ETA CAR  |
| 734 | HME145 | 13 | 396 | 30109618 | 396 | 34860978 | 160 | 46 | 45 | -59 | 25 | 16 | ETA CAR  |
| 735 | HME145 | 14 | 396 | 34901938 | 396 | 35147698 | 160 | 46 | 45 | -59 | 25 | 16 | ETA CAR  |
| 736 | HME145 | 15 | 396 | 35188658 | 396 | 36089778 | 160 | 46 | 45 | -59 | 25 | 16 | ETA CAR  |
| 737 | HME145 | 16 | 396 | 36130738 | 396 | 36908978 | 160 | 46 | 45 | -59 | 25 | 16 | ETA CAR  |
| 738 | HME145 | 17 | 396 | 36990898 | 396 | 42028978 | 160 | 46 | 45 | -59 | 25 | 16 | ETA CAR  |
| 739 | HME145 | 18 | 396 | 42028978 | 396 | 46165938 | 160 | 46 | 45 | -59 | 25 | 16 | ETA CAR  |
| 740 | HME145 | 19 | 396 | 46206898 | 396 | 46452658 | 160 | 46 | 45 | -59 | 25 | 16 | ETA CAR  |
| 741 | HME145 | 20 | 396 | 46493618 | 396 | 47845298 | 160 | 46 | 45 | -59 | 25 | 16 | ETA CAR  |
| 742 | HME145 | 21 | 396 | 47886258 | 396 | 48091058 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 743 | HME145 | 22 | 396 | 48132018 | 396 | 48254898 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 744 | HME145 | 23 | 396 | 48295858 | 396 | 53006258 | 220 | 0  | 0  | -62 | 28 | 0  | MSH14-63 |
| 745 | HME145 | 24 | 396 | 53047218 | 396 | 54644658 | 220 | 0  | 0  | -62 | 28 | 0  | MSH14-63 |
| 746 | HME145 | 25 | 396 | 54685618 | 396 | 57225138 | 220 | 0  | 0  | -62 | 28 | 0  | MSH14-63 |
| 747 | HME145 | 26 | 396 | 57266098 | 396 | 57470898 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 748 | HME145 | 27 | 396 | 57511858 | 396 | 58249138 | 185 | 57 | 12 | -62 | 30 | 37 | 301-2    |
| 749 | HME145 | 28 | 396 | 58331058 | 396 | 59027378 | 185 | 57 | 12 | -62 | 30 | 37 | 301-2    |
| 750 | HME145 | 29 | 396 | 59068338 | 396 | 65089458 | 185 | 57 | 12 | -62 | 30 | 37 | 301-2    |
| 751 | HME145 | 30 | 396 | 65130418 | 396 | 65253298 | 185 | 57 | 12 | -62 | 30 | 37 | 301-2    |
| 752 | HME145 | 31 | 396 | 65294258 | 396 | 65949618 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 753 | HME145 | 32 | 396 | 65990578 | 396 | 70332338 | 225 | 0  | 0  | -41 | 45 | 0  | SN 1006  |
| 754 | HME154 | 1  | 396 | 70373298 | 396 | 76926898 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 755 | HME154 | 2  | 396 | 76967858 | 396 | 77705138 | 53  | 33 | 17 | 0   | 25 | 29 | GO 9252  |
| 756 | HME154 | 3  | 396 | 77746098 | 396 | 79835058 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 757 | HME154 | 4  | 396 | 79916978 | 396 | 80490418 | 219 | 41 | 15 | -62 | 0  | 0  | MSH14-63 |
| 758 | HME154 | 5  | 396 | 80531378 | 396 | 82497458 | 219 | 41 | 15 | -62 | 0  | 0  | MSH14-63 |
| 759 | HME154 | 6  | 396 | 82497458 | 396 | 85856178 | 219 | 41 | 15 | -62 | 0  | 0  | MSH14-63 |
| 760 | HME154 | 7  | 396 | 85897138 | 397 | 562098   | 219 | 41 | 15 | -62 | 0  | 0  | MSH14-63 |
| 761 | HME178 | 11 | 397 | 684978   | 397 | 5723058  | 219 | 45 | 0  | -62 | 15 | 0  | MSH14-63 |
| 762 | HME178 | 12 | 397 | 5764018  | 397 | 6665138  | 219 | 45 | 0  | -62 | 15 | 0  | MSH14-63 |
| 763 | HME178 | 13 | 397 | 6869938  | 397 | 8754099  | 219 | 45 | 0  | -62 | 15 | 0  | MSH14-63 |
| 764 | HME178 | 14 | 397 | 8795059  | 397 | 9081779  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 765 | HME178 | 15 | 397 | 9122739  | 397 | 14816179 | 225 | 0  | 0  | -41 | 45 | 0  | SN 1006  |
| 766 | HME178 | 16 | 397 | 14980019 | 397 | 16782259 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 767 | HME178 | 17 | 397 | 16823219 | 397 | 19076019 | 225 | 11 | 15 | -41 | 40 | 0  | SN 1006  |
| 768 | HME178 | 18 | 397 | 19116979 | 397 | 19731379 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 769 | HME178 | 19 | 397 | 19772339 | 397 | 21984179 | 53  | 33 | 17 | 0   | 25 | 29 | GO 9252  |
| 770 | HME178 | 20 | 397 | 22148019 | 397 | 22926259 | 53  | 33 | 17 | 0   | 25 | 29 | GO 9252  |
| 771 | HME178 | 21 | 397 | 22967219 | 397 | 29193139 | 53  | 33 | 17 | 0   | 25 | 29 | GO 9252  |
| 772 | HME178 | 22 | 397 | 29356979 | 397 | 30012339 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 773 | HME178 | 23 | 397 | 30053299 | 397 | 31937459 | 225 | 11 | 15 | -41 | 41 | 0  | SN 1006  |
| 774 | HME178 | 24 | 397 | 31978419 | 397 | 32388019 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 775 | HME178 | 25 | 397 | 32428979 | 397 | 35091379 | 189 | 46 | 52 | -59 | 55 | 39 | 1239-59  |
| 776 | HME178 | 26 | 397 | 35132339 | 397 | 41112499 | 189 | 46 | 52 | -59 | 55 | 39 | 1239-59  |
| 777 | HME154 | 8  | 397 | 41153459 | 397 | 45290419 | 189 | 46 | 52 | -59 | 55 | 39 | 1239-59  |
| 778 | HME154 | 9  | 397 | 45331379 | 397 | 46150579 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 779 | HME154 | 10 | 397 | 46191539 | 397 | 52089779 | 40  | 15 | 15 | 62  | 15 | 27 | Q 0241   |
| 780 | HME154 | 11 | 397 | 52130739 | 397 | 58151859 | 40  | 15 | 15 | 62  | 15 | 27 | Q 0241   |
| 781 | HME154 | 12 | 397 | 58192819 | 397 | 61961139 | 40  | 15 | 15 | 62  | 15 | 27 | Q 0241   |
| 782 | HME154 | 13 | 397 | 62002099 | 397 | 62657459 | 40  | 15 | 15 | 62  | 15 | 27 | Q 0241   |
| 783 | HME154 | 14 | 397 | 62698419 | 397 | 64213939 | 170 | 33 | 45 | -58 | 59 | 0  | GO-3484  |
| 784 | HME154 | 15 | 397 | 64254899 | 397 | 70071219 | 170 | 33 | 45 | -58 | 59 | 0  | GO-3484  |
| 785 | HME154 | 16 | 397 | 71054259 | 397 | 75969459 | 170 | 33 | 45 | -58 | 59 | 0  | GO-3484  |
| 786 | HME154 | 17 | 397 | 76010419 | 397 | 76624819 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 787 | HME154 | 18 | 397 | 76665779 | 397 | 78918579 | 53  | 33 | 17 | 0   | 25 | 29 | SNR      |
| 788 | HME154 | 19 | 397 | 79000499 | 397 | 79164339 | 53  | 33 | 17 | 0   | 25 | 29 | SNR      |
| 789 | HME154 | 20 | 397 | 79205299 | 397 | 79696819 | 53  | 33 | 17 | 0   | 25 | 29 | SNR      |
| 790 | HME154 | 21 | 397 | 79737779 | 397 | 85021619 | 350 | 17 | 29 | 58  | 32 | 30 | CAS A    |
| 791 | HME154 | 22 | 397 | 85103539 | 397 | 85758899 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 792 | HME154 | 23 | 397 | 85799859 | 398 | 1447859  | 220 | 22 | 30 | -62 | 17 | 60 | MSH14-63 |
| 793 | HME154 | 24 | 405 | 83956668 | 405 | 84284348 | 200 | 38 | 0  | -42 | 45 | 30 | CEN A    |
| 794 | HME154 | 25 | 405 | 84325308 | 406 | 1120188  | 200 | 38 | 0  | -42 | 45 | 30 | CEN A    |
| 795 | HME170 | 15 | 406 | 1161148  | 406 | 1816508  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 796 | HME170 | 16 | 406 | 2062268  | 406 | 3168188  | 58  | 3  | 48 | 30  | 54 | 1  | X-PER    |
| 797 | HME170 | 17 | 406 | 3250108  | 406 | 4560828  | 58  | 3  | 48 | 30  | 54 | 1  | X-PER    |
| 798 | HME170 | 18 | 406 | 4601788  | 406 | 5380028  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 799 | HME170 | 19 | 406 | 5420988  | 406 | 7018428  | 254 | 0  | 29 | 35  | 25 | 3  | HER X-1  |
| 800 | HME170 | 20 | 406 | 7059388  | 406 | 7550908  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |

|     |        |    |     |          |     |          |     |    |    |     |    |    |          |
|-----|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 801 | HME170 | 21 | 406 | 7591868  | 406 | 9926588  | 58  | 3  | 48 | 30  | 54 | 1  | X-PER    |
| 802 | HME170 | 22 | 406 | 9967548  | 406 | 10704828 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 803 | HME170 | 23 | 406 | 10745788 | 406 | 12711868 | 254 | 0  | 29 | 35  | 25 | 3  | HER X-1  |
| 804 | HME170 | 24 | 406 | 12752828 | 406 | 13285308 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 805 | HME170 | 25 | 406 | 13326268 | 406 | 15169468 | 58  | 3  | 48 | 30  | 54 | 1  | X-PER    |
| 806 | HME170 | 26 | 406 | 15251388 | 406 | 15620028 | 58  | 3  | 48 | 30  | 54 | 1  | X-PER    |
| 807 | HME170 | 27 | 406 | 15660988 | 406 | 16398268 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 808 | HME170 | 28 | 406 | 16439228 | 406 | 18405308 | 254 | 0  | 29 | 35  | 25 | 3  | HER X-1  |
| 809 | HME170 | 29 | 406 | 18446268 | 406 | 18978748 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 810 | HME170 | 30 | 406 | 19019708 | 406 | 21231548 | 58  | 3  | 48 | 30  | 54 | 1  | X-PER    |
| 811 | HME170 | 31 | 406 | 21354428 | 406 | 22132668 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 812 | HME170 | 32 | 406 | 22173628 | 406 | 24098748 | 254 | 0  | 29 | 35  | 25 | 3  | HER X-1  |
| 813 | HME170 | 33 | 406 | 24139708 | 406 | 24672188 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 814 | HME170 | 34 | 406 | 24713148 | 406 | 27047868 | 58  | 3  | 48 | 30  | 54 | 1  | X-PER    |
| 815 | HME170 | 35 | 406 | 27088828 | 406 | 27293628 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 816 | HME170 | 36 | 406 | 27334588 | 406 | 27662268 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 817 | HME170 | 37 | 406 | 27703228 | 406 | 32167868 | 169 | 43 | 45 | -60 | 19 | 5  | CEN X-3  |
| 818 | HME170 | 38 | 406 | 32208828 | 406 | 33970109 | 169 | 43 | 45 | -60 | 19 | 5  | CEN X-3  |
| 819 | HME170 | 39 | 406 | 34011069 | 406 | 34584509 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 820 | HME170 | 40 | 406 | 34625469 | 406 | 37410749 | 46  | 13 | 36 | 40  | 45 | 52 | ALGOL    |
| 821 | HME170 | 41 | 406 | 37451709 | 406 | 38885309 | 46  | 13 | 36 | 40  | 45 | 52 | ALGOL    |
| 822 | HME170 | 42 | 406 | 38926269 | 406 | 39458749 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 823 | HME170 | 43 | 406 | 39499709 | 406 | 41220029 | 254 | 0  | 29 | 35  | 25 | 3  | HER X-1  |
| 824 | HME170 | 44 | 406 | 41260989 | 406 | 41752509 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 825 | HME171 | 1  | 406 | 41793469 | 406 | 44169149 | 46  | 13 | 36 | 40  | 45 | 52 | ALGOL    |
| 826 | HME171 | 2  | 406 | 44210109 | 406 | 44373949 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 827 | HME171 | 3  | 406 | 44414909 | 406 | 44865469 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 828 | HME171 | 4  | 406 | 44906429 | 406 | 46913469 | 254 | 0  | 29 | 35  | 25 | 3  | HER X-1  |
| 829 | HME171 | 5  | 406 | 46954429 | 406 | 47445949 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 830 | HME171 | 6  | 406 | 47486909 | 406 | 50272189 | 46  | 13 | 36 | 40  | 45 | 52 | ALGOL    |
| 831 | HME171 | 7  | 406 | 50436029 | 406 | 50968509 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 832 | HME171 | 8  | 406 | 51009469 | 406 | 52606909 | 254 | 0  | 29 | 35  | 25 | 3  | HER X-1  |
| 833 | HME171 | 9  | 406 | 52647869 | 406 | 53139389 | 46  | 13 | 36 | 40  | 45 | 52 | ALGOL    |
| 834 | HME171 | 10 | 406 | 53180349 | 406 | 55556029 | 46  | 13 | 36 | 40  | 45 | 52 | ALGOL    |
| 835 | HME171 | 11 | 406 | 55596989 | 406 | 56293309 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 836 | HME171 | 12 | 406 | 56334269 | 406 | 58341309 | 254 | 0  | 29 | 35  | 25 | 3  | HER X-1  |
| 837 | HME171 | 13 | 406 | 58382269 | 406 | 58873789 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 838 | HME171 | 14 | 406 | 58914749 | 406 | 59078589 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 839 | HME171 | 15 | 406 | 59119549 | 406 | 61290429 | 46  | 13 | 36 | 40  | 45 | 52 | ALGOL    |
| 840 | HME171 | 16 | 406 | 61331389 | 406 | 61986749 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 841 | HME171 | 17 | 406 | 62027709 | 406 | 64034749 | 254 | 0  | 29 | 35  | 25 | 3  | HER X-1  |
| 842 | HME171 | 18 | 406 | 64075709 | 406 | 64608189 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 843 | HME171 | 19 | 406 | 64649149 | 406 | 65099709 | 169 | 43 | 45 | -60 | 19 | 5  | CEN X-3  |
| 844 | HME171 | 20 | 406 | 65140669 | 406 | 73865149 | 169 | 43 | 45 | -60 | 19 | 5  | CEN X-3  |
| 845 | HME171 | 21 | 406 | 73906109 | 406 | 75052989 | 58  | 3  | 48 | 30  | 54 | 1  | X-PER    |
| 846 | HME171 | 22 | 406 | 75093949 | 406 | 75749309 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 847 | HME171 | 23 | 406 | 75790269 | 406 | 76691389 | 58  | 3  | 48 | 30  | 54 | 1  | X-PER    |
| 848 | HME171 | 24 | 406 | 76814269 | 406 | 78739389 | 58  | 3  | 48 | 30  | 54 | 1  | X-PER    |
| 849 | HME171 | 25 | 406 | 78780349 | 406 | 79517629 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 850 | HME171 | 26 | 406 | 79558589 | 406 | 81156029 | 254 | 0  | 29 | 35  | 25 | 3  | HER X-1  |
| 851 | HME171 | 27 | 406 | 81196989 | 406 | 81688509 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 852 | HME171 | 28 | 406 | 81729469 | 406 | 84883389 | 58  | 3  | 48 | 30  | 54 | 1  | X-PER    |
| 853 | HME171 | 29 | 406 | 84924349 | 407 | 449469   | 254 | 0  | 29 | 35  | 25 | 3  | HER X-1  |
| 854 | HME171 | 30 | 407 | 490429   | 407 | 981949   | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 855 | HME171 | 31 | 407 | 1227709  | 407 | 2251709  | 46  | 13 | 36 | 40  | 45 | 52 | ALGOL    |
| 856 | HME171 | 32 | 407 | 2374589  | 407 | 3808189  | 46  | 13 | 36 | 40  | 45 | 52 | ALGOL    |
| 857 | HME171 | 33 | 407 | 3849149  | 407 | 4504509  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 858 | HME171 | 34 | 407 | 4545469  | 407 | 6142909  | 254 | 0  | 29 | 35  | 25 | 3  | HER X-1  |
| 859 | HME171 | 35 | 407 | 6183869  | 407 | 6675389  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 860 | HME171 | 36 | 407 | 6716349  | 407 | 9501629  | 46  | 13 | 36 | 40  | 45 | 52 | ALGOL    |
| 861 | HME171 | 37 | 407 | 9542589  | 407 | 10238909 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 862 | HME171 | 38 | 407 | 10279869 | 407 | 11877309 | 254 | 0  | 29 | 35  | 25 | 3  | HER X-1  |
| 863 | HME171 | 39 | 407 | 11918269 | 407 | 12368829 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 864 | HME171 | 40 | 407 | 12409789 | 407 | 14252989 | 49  | 7  | 24 | 41  | 19 | 51 | NGC 1275 |
| 865 | HME171 | 41 | 407 | 14293949 | 407 | 15236029 | 49  | 7  | 24 | 41  | 19 | 51 | NGC 1275 |
| 866 | HME171 | 42 | 407 | 15276989 | 407 | 15932349 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 867 | HME171 | 43 | 407 | 15973309 | 407 | 17570749 | 254 | 0  | 29 | 35  | 25 | 3  | HER X-1  |
| 868 | HME171 | 44 | 407 | 17611709 | 407 | 18103229 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 869 | HME171 | 45 | 407 | 18144189 | 407 | 20356029 | 49  | 7  | 24 | 41  | 19 | 51 | NGC 1275 |
| 870 | HME171 | 46 | 407 | 20396989 | 407 | 20519869 | 49  | 7  | 24 | 41  | 19 | 51 | NGC 1275 |
| 871 | HME171 | 47 | 407 | 20560829 | 407 | 21257149 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 872 | HME171 | 48 | 407 | 21298109 | 407 | 23305149 | 254 | 0  | 29 | 35  | 25 | 3  | HER X-1  |
| 873 | HME171 | 49 | 407 | 23346109 | 407 | 23796669 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 874 | HME171 | 50 | 407 | 23837629 | 407 | 26213309 | 49  | 7  | 24 | 41  | 19 | 51 | NGC 1275 |
| 875 | HME171 | 51 | 407 | 26254269 | 407 | 26418109 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 876 | HME171 | 52 | 407 | 26459069 | 407 | 26868669 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 877 | HME172 | 1  | 407 | 26909629 | 407 | 31374270 | 169 | 43 | 45 | -60 | 19 | 5  | CEN X-3  |
| 878 | HME172 | 2  | 407 | 31415230 | 407 | 37354430 | 169 | 43 | 45 | -60 | 19 | 5  | CEN X-3  |
| 879 | HME172 | 3  | 407 | 37395390 | 407 | 37641150 | 169 | 43 | 45 | -60 | 19 | 5  | CEN X-3  |
| 880 | HME172 | 4  | 407 | 37682110 | 407 | 38009790 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |

|     |        |    |     |          |     |          |     |    |    |     |    |    |          |
|-----|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 881 | HME172 | 5  | 407 | 38050750 | 407 | 40795070 | 200 | 38 | 0  | -42 | 45 | 30 | CEN A    |
| 882 | HME163 | 18 | 407 | 40836030 | 407 | 41573310 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 883 | HME163 | 19 | 407 | 41614270 | 407 | 42597310 | 49  | 7  | 24 | 41  | 19 | 51 | NGC 1275 |
| 884 | HME163 | 20 | 407 | 42638270 | 407 | 43744190 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 885 | HME163 | 21 | 407 | 43785150 | 407 | 44481470 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 886 | HME163 | 22 | 407 | 44522430 | 407 | 46119870 | 254 | 0  | 29 | 35  | 25 | 3  | HER X-1  |
| 887 | HME163 | 23 | 407 | 46160830 | 407 | 46611390 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 888 | HME163 | 24 | 407 | 46652350 | 407 | 49068990 | 49  | 7  | 24 | 41  | 19 | 51 | NGC 1275 |
| 889 | HME163 | 25 | 407 | 49109950 | 407 | 49519550 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 890 | HME163 | 26 | 407 | 49560510 | 407 | 49765310 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 891 | HME163 | 27 | 407 | 49806270 | 407 | 51813310 | 254 | 0  | 29 | 35  | 25 | 3  | HER X-1  |
| 892 | HME163 | 28 | 407 | 51854270 | 407 | 52345790 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 893 | HME163 | 29 | 407 | 52386750 | 407 | 54762430 | 49  | 7  | 24 | 41  | 19 | 51 | NGC 1275 |
| 894 | HME163 | 30 | 407 | 54803390 | 407 | 55458750 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 895 | HME163 | 31 | 407 | 55499710 | 407 | 57506750 | 254 | 0  | 29 | 35  | 25 | 3  | HER X-1  |
| 896 | HME163 | 32 | 407 | 57547710 | 407 | 58039230 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 897 | HME163 | 33 | 407 | 58080190 | 407 | 58284990 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 898 | HME163 | 34 | 407 | 58325950 | 407 | 60251070 | 49  | 7  | 24 | 41  | 19 | 51 | NGC 1275 |
| 899 | HME163 | 35 | 407 | 60292030 | 407 | 61397950 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 900 | HME163 | 36 | 407 | 61438910 | 407 | 64388030 | 200 | 38 | 0  | -42 | 45 | 30 | CEN A    |
| 901 | HME163 | 37 | 407 | 64428990 | 407 | 67419070 | 200 | 38 | 0  | -42 | 45 | 30 | CEN A    |
| 902 | HME163 | 38 | 407 | 67460030 | 407 | 67910590 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 903 | HME163 | 39 | 407 | 67951550 | 407 | 73030590 | 169 | 43 | 45 | -60 | 19 | 5  | CEN X-3  |
| 904 | HME163 | 40 | 407 | 73071550 | 407 | 75160510 | 169 | 43 | 45 | -60 | 19 | 5  | CEN X-3  |
| 905 | HME163 | 41 | 407 | 75283390 | 407 | 78396350 | 169 | 43 | 45 | -60 | 19 | 5  | CEN X-3  |
| 906 | HME163 | 42 | 407 | 78437310 | 407 | 78805950 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 907 | HME189 | 17 | 407 | 78846910 | 407 | 84581310 | 200 | 38 | 0  | -42 | 45 | 30 | CEN A    |
| 908 | HME189 | 18 | 407 | 84622270 | 407 | 84745150 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 909 | HME155 | 1  | 413 | 83178437 | 413 | 83710917 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 910 | HME155 | 2  | 413 | 83751877 | 414 | 2062277  | 83  | 14 | 30 | -66 | 24 | 54 | LMC X-4  |
| 911 | HME155 | 3  | 414 | 2144197  | 414 | 8206277  | 83  | 14 | 30 | -66 | 24 | 54 | LMC X-4  |
| 912 | HME155 | 4  | 414 | 8247237  | 414 | 9066437  | 83  | 14 | 30 | -66 | 24 | 54 | LMC X-4  |
| 913 | HME155 | 5  | 414 | 9107397  | 414 | 9516997  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 914 | HME155 | 6  | 414 | 9557957  | 414 | 12097477 | 229 | 12 | 9  | -56 | 59 | 20 | CIR X-1  |
| 915 | HME155 | 7  | 414 | 12138437 | 414 | 12957637 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 916 | HME155 | 8  | 414 | 12998597 | 414 | 14227397 | 67  | 37 | 54 | 5   | 14 | 59 | 3C 120   |
| 917 | HME155 | 9  | 414 | 14268357 | 414 | 14596037 | 67  | 37 | 54 | 5   | 14 | 59 | 3C 120   |
| 918 | HME155 | 10 | 414 | 14636997 | 414 | 15210437 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 919 | HME155 | 11 | 414 | 15251397 | 414 | 17504197 | 229 | 12 | 9  | -56 | 59 | 20 | CIR X-1  |
| 920 | HME155 | 12 | 414 | 17545157 | 414 | 18364357 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 921 | HME155 | 13 | 414 | 18405317 | 414 | 20330437 | 67  | 37 | 54 | 5   | 14 | 59 | 3C 120   |
| 922 | HME155 | 14 | 414 | 20371397 | 414 | 20903877 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 923 | HME155 | 15 | 414 | 20944837 | 414 | 21641157 | 229 | 12 | 9  | -56 | 59 | 20 | CIR X-1  |
| 924 | HME155 | 16 | 414 | 21682117 | 414 | 23197637 | 229 | 12 | 9  | -56 | 59 | 20 | CIR X-1  |
| 925 | HME155 | 17 | 414 | 23238597 | 414 | 24098757 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 926 | HME155 | 18 | 414 | 24139717 | 414 | 25163717 | 67  | 37 | 54 | 5   | 14 | 59 | 3C 120   |
| 927 | HME155 | 19 | 414 | 25204677 | 414 | 26023877 | 67  | 37 | 54 | 5   | 14 | 59 | 3C 120   |
| 928 | HME155 | 20 | 414 | 26064837 | 414 | 26638277 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 929 | HME155 | 21 | 414 | 26679237 | 414 | 28932037 | 229 | 12 | 9  | -56 | 59 | 20 | CIR X-1  |
| 930 | HME155 | 22 | 414 | 28972997 | 414 | 29792197 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 931 | HME155 | 23 | 414 | 29833157 | 414 | 31266757 | 67  | 37 | 54 | 5   | 14 | 59 | 3C 120   |
| 932 | HME155 | 24 | 414 | 31307717 | 414 | 31717317 | 67  | 37 | 54 | 5   | 14 | 59 | 3C 120   |
| 933 | HME155 | 25 | 414 | 31758277 | 414 | 32331717 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 934 | HME155 | 26 | 414 | 32372677 | 414 | 34625477 | 229 | 12 | 9  | -56 | 59 | 20 | CIR X-1  |
| 935 | HME155 | 27 | 414 | 34666437 | 414 | 35485637 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 936 | HME155 | 28 | 414 | 35526597 | 414 | 37287877 | 67  | 37 | 54 | 5   | 14 | 59 | 3C 120   |
| 937 | HME155 | 29 | 414 | 37451717 | 414 | 38025157 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 938 | HME155 | 30 | 414 | 38066117 | 414 | 40564677 | 229 | 12 | 9  | -56 | 59 | 20 | CIR X-1  |
| 939 | HME155 | 31 | 414 | 40605637 | 414 | 40974277 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 940 | HME155 | 32 | 414 | 41015237 | 414 | 42571717 | 80  | 17 | 15 | -72 | 0  | 7  | LMC X-2  |
| 941 | HME155 | 33 | 414 | 42653637 | 414 | 43923397 | 80  | 17 | 15 | -72 | 0  | 7  | LMC X-2  |
| 942 | HME155 | 34 | 414 | 44046277 | 414 | 51173317 | 80  | 17 | 15 | -72 | 0  | 7  | LMC X-2  |
| 943 | HME155 | 35 | 414 | 51255237 | 414 | 51910597 | 80  | 17 | 15 | -72 | 0  | 7  | LMC X-2  |
| 944 | HME155 | 36 | 414 | 51951557 | 414 | 52361157 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 945 | HME155 | 37 | 414 | 52402117 | 414 | 55023557 | 78  | 6  | 55 | -40 | 6  | 3  | NGC 1851 |
| 946 | HME155 | 38 | 414 | 55064517 | 414 | 55269317 | 78  | 6  | 55 | -40 | 6  | 3  | NGC 1851 |
| 947 | HME155 | 39 | 414 | 55310277 | 414 | 55842757 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 948 | HME155 | 40 | 414 | 55883717 | 414 | 57481157 | 229 | 12 | 9  | -56 | 59 | 20 | CIR X-1  |
| 949 | HME155 | 41 | 414 | 57522117 | 414 | 57972677 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 950 | HME155 | 42 | 414 | 58013637 | 414 | 58464197 | 78  | 6  | 55 | -40 | 6  | 3  | NGC 1851 |
| 951 | HME155 | 43 | 414 | 58546117 | 414 | 60471237 | 78  | 6  | 55 | -40 | 6  | 3  | NGC 1851 |
| 952 | HME155 | 44 | 414 | 60512197 | 414 | 61044677 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 953 | HME155 | 45 | 414 | 61085637 | 414 | 63174597 | 229 | 12 | 9  | -56 | 59 | 20 | CIR X-1  |
| 954 | HME155 | 46 | 414 | 63215557 | 414 | 63666117 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 955 | HME155 | 47 | 414 | 63707077 | 414 | 66164677 | 78  | 6  | 55 | -40 | 6  | 3  | NGC 1851 |
| 956 | HME155 | 48 | 414 | 66205637 | 414 | 66738117 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 957 | HME155 | 49 | 414 | 66779077 | 414 | 68663237 | 229 | 12 | 9  | -56 | 59 | 20 | CIR X-1  |
| 958 | HME155 | 50 | 414 | 68745157 | 414 | 68908997 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 959 | HME155 | 51 | 414 | 68949957 | 414 | 69400517 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 960 | HME155 | 52 | 414 | 69441477 | 414 | 71858117 | 78  | 6  | 55 | -40 | 6  | 3  | NGC 1851 |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 961  | HME157 | 1  | 414 | 71899077 | 414 | 72472517 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 962  | HME157 | 2  | 414 | 72513477 | 414 | 74602438 | 229 | 12 | 9  | -56 | 59 | 20 | CIR X-1  |
| 963  | HME157 | 3  | 414 | 74643398 | 414 | 75216838 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 964  | HME157 | 4  | 414 | 75257798 | 414 | 75503558 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 965  | HME157 | 5  | 414 | 75544518 | 414 | 77633478 | 62  | 40 | 6  | 10  | 20 | 37 | A478     |
| 966  | HME157 | 6  | 414 | 77674438 | 414 | 78534598 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 967  | HME157 | 7  | 414 | 78575558 | 414 | 80172998 | 229 | 12 | 9  | -56 | 59 | 20 | CIR X-1  |
| 968  | HME157 | 8  | 414 | 80213958 | 414 | 80787398 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 969  | HME157 | 9  | 414 | 80828358 | 414 | 81606598 | 62  | 40 | 6  | 10  | 20 | 37 | A 478    |
| 970  | HME157 | 10 | 414 | 81647558 | 414 | 83040198 | 62  | 40 | 6  | 10  | 20 | 37 | A 478    |
| 971  | HME157 | 11 | 414 | 83081158 | 414 | 83941318 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 972  | HME157 | 12 | 414 | 83982278 | 414 | 85866438 | 229 | 12 | 9  | -56 | 59 | 20 | CIR X-1  |
| 973  | HME157 | 13 | 414 | 85907398 | 414 | 86316998 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 974  | HME157 | 14 | 414 | 86357958 | 415 | 1268678  | 84  | 39 | 30 | -64 | 6  | 20 | LMC X-3  |
| 975  | HME157 | 15 | 415 | 1309638  | 415 | 6921158  | 84  | 39 | 30 | -64 | 6  | 20 | LMC X-3  |
| 976  | HME157 | 16 | 415 | 6962118  | 415 | 7289798  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 977  | HME157 | 17 | 415 | 7330758  | 415 | 9993158  | 193 | 34 | 56 | -69 | 1  | 3  | 1254-69  |
| 978  | HME157 | 18 | 415 | 10116038 | 415 | 11221958 | 2   | 48 | 36 | 3   | 7  | 1  | 1254-69  |
| 979  | HME157 | 19 | 415 | 11262918 | 415 | 11836358 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 980  | HME157 | 20 | 415 | 11877318 | 415 | 13392838 | 62  | 40 | 6  | 10  | 20 | 37 | A478     |
| 981  | HME157 | 21 | 415 | 13433798 | 415 | 13638598 | 62  | 40 | 6  | 10  | 20 | 37 | A478     |
| 982  | HME157 | 22 | 415 | 13679558 | 415 | 14171078 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 983  | HME157 | 23 | 415 | 14212038 | 415 | 16546758 | 193 | 34 | 56 | -69 | 1  | 3  | 1254-69  |
| 984  | HME157 | 24 | 415 | 16587718 | 415 | 17365958 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 985  | HME157 | 25 | 415 | 17406918 | 415 | 18226118 | 62  | 40 | 6  | 10  | 20 | 37 | A478     |
| 986  | HME157 | 26 | 415 | 18267078 | 415 | 19332038 | 62  | 40 | 6  | 10  | 20 | 37 | A478     |
| 987  | HME157 | 27 | 415 | 19372998 | 415 | 19946438 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 988  | HME157 | 28 | 415 | 19987398 | 415 | 22281158 | 193 | 34 | 56 | -69 | 1  | 3  | 1254-69  |
| 989  | HME157 | 29 | 415 | 22322118 | 415 | 23059398 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 990  | HME157 | 30 | 415 | 23100358 | 415 | 25066438 | 62  | 40 | 6  | 10  | 20 | 37 | A478     |
| 991  | HME157 | 31 | 415 | 25107398 | 415 | 25680838 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 992  | HME157 | 32 | 415 | 25721798 | 415 | 26827718 | 229 | 12 | 9  | -56 | 59 | 20 | CIR X-1  |
| 993  | HME157 | 33 | 415 | 26868678 | 415 | 28097478 | 229 | 12 | 9  | -56 | 59 | 20 | CIR X-1  |
| 994  | HME157 | 34 | 415 | 28138438 | 415 | 29121478 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 995  | HME157 | 35 | 415 | 29162438 | 415 | 30350278 | 50  | 53 | 15 | 28  | 32 | 32 | UX ARI   |
| 996  | HME157 | 36 | 415 | 30391238 | 415 | 30759878 | 50  | 53 | 15 | 28  | 32 | 32 | UX ARI   |
| 997  | HME157 | 37 | 415 | 30800838 | 415 | 31456198 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 998  | HME157 | 38 | 415 | 31497158 | 415 | 33627078 | 229 | 12 | 9  | -56 | 59 | 20 | CIR X-1  |
| 999  | HME157 | 39 | 415 | 33668038 | 415 | 34651078 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1000 | HME157 | 40 | 415 | 34692038 | 415 | 36453318 | 50  | 53 | 15 | 28  | 32 | 32 | UX ARI   |
| 1001 | HME157 | 41 | 415 | 36494278 | 415 | 37190598 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1002 | HME157 | 42 | 415 | 37231558 | 415 | 39320518 | 229 | 12 | 9  | -56 | 59 | 20 | CIR X-1  |
| 1003 | HME157 | 43 | 415 | 39361478 | 415 | 39730118 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1004 | HME157 | 44 | 415 | 39771078 | 415 | 41696198 | 85  | 1  | 12 | -69 | 46 | 9  | LMC X-1  |
| 1005 | HME157 | 45 | 415 | 41737158 | 415 | 47389638 | 85  | 1  | 12 | -69 | 46 | 9  | LMC X-1  |
| 1006 | HME157 | 46 | 415 | 47430598 | 415 | 47758278 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1007 | HME157 | 47 | 415 | 47799238 | 415 | 50912198 | 193 | 34 | 56 | -69 | 1  | 3  | 1254-69  |
| 1008 | HME157 | 48 | 415 | 50953158 | 415 | 51608518 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1009 | HME157 | 49 | 415 | 51649478 | 415 | 53492678 | 50  | 53 | 15 | 28  | 32 | 32 | UX ARI   |
| 1010 | HME157 | 50 | 415 | 53533638 | 415 | 53861318 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1011 | HME157 | 51 | 415 | 53902278 | 415 | 54107078 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1012 | HME157 | 52 | 415 | 54148038 | 415 | 56359878 | 193 | 34 | 56 | -69 | 1  | 3  | 1254-69  |
| 1013 | HME157 | 53 | 415 | 56400838 | 415 | 57301958 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1014 | HME157 | 54 | 415 | 57342918 | 415 | 59186118 | 50  | 53 | 15 | 28  | 32 | 32 | UX ARI   |
| 1015 | HME157 | 55 | 415 | 59227078 | 415 | 59513798 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1016 | HME158 | 1  | 415 | 59554758 | 415 | 60005318 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1017 | HME158 | 2  | 415 | 60046278 | 415 | 61643718 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1018 | HME158 | 3  | 415 | 61725638 | 415 | 65084358 | 42  | 54 | 0  | 41  | 22 | 48 | NGC 1129 |
| 1019 | HME158 | 4  | 415 | 65125318 | 415 | 65862598 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1020 | HME158 | 5  | 415 | 65903558 | 415 | 67828678 | 242 | 12 | 47 | -52 | 17 | 4  | 1608-52  |
| 1021 | HME158 | 6  | 415 | 67869639 | 415 | 68565959 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1022 | HME158 | 7  | 415 | 68606919 | 415 | 70654919 | 42  | 54 | 0  | 41  | 22 | 48 | NGC 1129 |
| 1023 | HME158 | 8  | 415 | 70695879 | 415 | 71801799 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1024 | HME158 | 9  | 415 | 71842759 | 415 | 73522119 | 242 | 12 | 47 | -52 | 17 | 4  | 1608-52  |
| 1025 | HME158 | 10 | 415 | 73808839 | 415 | 74300359 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1026 | HME158 | 11 | 415 | 74341319 | 415 | 76348359 | 42  | 54 | 0  | 41  | 22 | 48 | NGC 1129 |
| 1027 | HME158 | 12 | 415 | 76389319 | 415 | 77495239 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1028 | HME158 | 13 | 415 | 77536199 | 415 | 79256519 | 242 | 12 | 47 | -52 | 17 | 4  | 1608-52  |
| 1029 | HME158 | 14 | 415 | 79297479 | 415 | 79993799 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1030 | HME158 | 15 | 415 | 80034759 | 415 | 82820039 | 50  | 53 | 15 | 28  | 32 | 32 | UX ARI   |
| 1031 | HME158 | 16 | 415 | 82860999 | 415 | 82983879 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1032 | HME158 | 17 | 424 | 81330128 | 424 | 81657808 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1033 | HME158 | 18 | 424 | 81698768 | 424 | 83582928 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1034 | HME158 | 19 | 424 | 83623888 | 425 | 3122128  | 253 | 3  | 0  | 39  | 50 | 24 | MK 501   |
| 1035 | HME172 | 6  | 425 | 3285968  | 425 | 3777488  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1036 | HME172 | 7  | 425 | 3818448  | 425 | 5620688  | 25  | 43 | 46 | 61  | 29 | 59 | 0142+614 |
| 1037 | HME172 | 8  | 425 | 5661648  | 425 | 6071248  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1038 | HME172 | 9  | 425 | 6112208  | 425 | 9307088  | 253 | 3  | 0  | 39  | 50 | 24 | MK 501   |
| 1039 | HME172 | 10 | 425 | 9348048  | 425 | 9470928  | 253 | 3  | 0  | 39  | 50 | 24 | MK 501   |
| 1040 | HME172 | 11 | 425 | 9511888  | 425 | 10003408 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 1041 | HME172 | 12 | 425 | 10044368 | 425 | 11314128 | 25  | 43 | 46 | 61  | 29 | 59 | 0142+614 |
| 1042 | HME172 | 13 | 425 | 11355088 | 425 | 11846608 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1043 | HME172 | 14 | 425 | 11887568 | 425 | 15164368 | 253 | 3  | 0  | 39  | 50 | 24 | MK 501   |
| 1044 | HME172 | 15 | 425 | 15205328 | 425 | 15410128 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1045 | HME172 | 16 | 425 | 15451088 | 425 | 15737808 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1046 | HME172 | 17 | 425 | 15778768 | 425 | 19506129 | 243 | 21 | 15 | -50 | 54 | 0  | RCW103#2 |
| 1047 | HME172 | 18 | 425 | 19547089 | 425 | 20161489 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1048 | HME172 | 19 | 425 | 20202449 | 425 | 20612049 | 256 | 37 | 28 | 78  | 47 | 0  | A 2256   |
| 1049 | HME172 | 20 | 425 | 20653009 | 425 | 26715089 | 256 | 37 | 28 | 78  | 47 | 0  | A 2256   |
| 1050 | HME172 | 21 | 425 | 26756049 | 425 | 28599249 | 256 | 37 | 28 | 78  | 47 | 0  | A 2256   |
| 1051 | HME172 | 22 | 425 | 28640209 | 425 | 29336529 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1052 | HME172 | 23 | 425 | 29377489 | 425 | 31425489 | 243 | 21 | 15 | -50 | 54 | 0  | RCW103#2 |
| 1053 | HME172 | 24 | 425 | 31466449 | 425 | 32490449 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1054 | HME172 | 25 | 425 | 32531409 | 425 | 32818129 | 25  | 43 | 46 | 61  | 29 | 59 | 0142+614 |
| 1055 | HME172 | 26 | 425 | 32859089 | 425 | 34087889 | 25  | 43 | 46 | 61  | 29 | 59 | 0142+614 |
| 1056 | HME172 | 27 | 425 | 34128849 | 425 | 34866129 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1057 | HME172 | 28 | 425 | 34907089 | 425 | 37241809 | 243 | 21 | 15 | -50 | 54 | 0  | RCW103#2 |
| 1058 | HME172 | 29 | 425 | 37282769 | 425 | 37487569 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1059 | HME172 | 30 | 425 | 37651409 | 425 | 37979089 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1060 | HME172 | 31 | 425 | 38020049 | 425 | 38921169 | 25  | 43 | 46 | 61  | 29 | 59 | 0142+614 |
| 1061 | HME172 | 32 | 425 | 38962129 | 425 | 39822289 | 25  | 43 | 46 | 61  | 29 | 59 | 0142+614 |
| 1062 | HME172 | 33 | 425 | 39863249 | 425 | 40518609 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1063 | HME172 | 34 | 425 | 40559569 | 425 | 42935249 | 243 | 21 | 15 | -50 | 54 | 0  | RCW103#2 |
| 1064 | HME172 | 35 | 425 | 42976209 | 425 | 43672529 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1065 | HME172 | 36 | 425 | 43713489 | 425 | 45843409 | 53  | 21 | 15 | 32  | 8  | 28 | NRAO 140 |
| 1066 | HME172 | 37 | 425 | 45884369 | 425 | 46908369 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1067 | HME172 | 38 | 425 | 46949329 | 425 | 47399889 | 243 | 30 | 0  | -50 | 58 | 0  | RCW103#1 |
| 1068 | HME172 | 39 | 425 | 47440849 | 425 | 48546769 | 243 | 30 | 0  | -50 | 58 | 0  | RCW103#1 |
| 1069 | HME172 | 40 | 425 | 48587729 | 425 | 48833489 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1070 | HME172 | 41 | 425 | 48874449 | 425 | 49284049 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1071 | HME172 | 42 | 425 | 49325009 | 425 | 51536849 | 53  | 21 | 15 | 32  | 8  | 28 | NRAO 140 |
| 1072 | HME172 | 43 | 425 | 51577809 | 425 | 52601809 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1073 | HME172 | 44 | 425 | 52642769 | 425 | 53502929 | 243 | 30 | 0  | -50 | 58 | 0  | RCW103#1 |
| 1074 | HME172 | 45 | 425 | 53584849 | 425 | 54240209 | 243 | 30 | 0  | -50 | 58 | 0  | RCW103#1 |
| 1075 | HME172 | 46 | 425 | 54281169 | 425 | 54977489 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1076 | HME172 | 47 | 425 | 55018449 | 425 | 57230289 | 243 | 30 | 0  | -50 | 58 | 0  | NRAO 140 |
| 1077 | HME172 | 48 | 425 | 57271249 | 425 | 58336209 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1078 | HME172 | 49 | 425 | 58377169 | 425 | 59851729 | 243 | 30 | 0  | -50 | 58 | 0  | RCW103#1 |
| 1079 | HME172 | 50 | 425 | 59933649 | 425 | 60670929 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1080 | HME172 | 51 | 425 | 60711889 | 425 | 62923729 | 53  | 21 | 15 | 32  | 8  | 28 | NRAO 140 |
| 1081 | HME172 | 52 | 425 | 62964689 | 425 | 63415249 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1082 | HME173 | 1  | 425 | 63456209 | 425 | 65749969 | 256 | 37 | 28 | 78  | 47 | 0  | A 2256   |
| 1083 | HME173 | 2  | 425 | 65790929 | 425 | 71730129 | 256 | 37 | 28 | 78  | 47 | 0  | A 2256   |
| 1084 | HME173 | 3  | 425 | 71771089 | 425 | 73819089 | 256 | 37 | 28 | 78  | 47 | 0  | A 2256   |
| 1085 | HME173 | 4  | 425 | 73860049 | 425 | 74515409 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1086 | HME173 | 5  | 425 | 74556369 | 425 | 77792209 | 25  | 43 | 46 | 61  | 29 | 59 | 0142+614 |
| 1087 | HME173 | 6  | 425 | 77833169 | 425 | 79717329 | 25  | 43 | 46 | 61  | 29 | 59 | 0142+614 |
| 1088 | HME173 | 7  | 425 | 79758289 | 425 | 80536529 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1089 | HME173 | 8  | 425 | 80577489 | 425 | 82707409 | 246 | 4  | 53 | -49 | 5  | 7  | S1624-49 |
| 1090 | HME173 | 9  | 425 | 82748369 | 425 | 83444689 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1091 | HME173 | 10 | 425 | 83485649 | 425 | 85697489 | 53  | 21 | 15 | 32  | 8  | 28 | NRAO 140 |
| 1092 | HME173 | 11 | 425 | 85738449 | 426 | 321489   | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1093 | HME158 | 20 | 426 | 362449   | 426 | 1959889  | 231 | 1  | 44 | -61 | 42 | 41 | 51524-62 |
| 1094 | HME158 | 21 | 426 | 2000849  | 426 | 2410449  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1095 | HME158 | 22 | 426 | 2451409  | 426 | 2697169  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1096 | HME158 | 23 | 426 | 2738129  | 426 | 4949969  | 71  | 30 | 0  | 44  | 56 | 0  | 3C 129   |
| 1097 | HME158 | 24 | 426 | 4990929  | 426 | 6014929  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1098 | HME158 | 25 | 426 | 6055889  | 426 | 7653329  | 231 | 1  | 44 | -61 | 42 | 41 | 51524-62 |
| 1099 | HME158 | 26 | 426 | 7694289  | 426 | 8390609  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1100 | HME158 | 27 | 426 | 8431569  | 426 | 14493650 | 71  | 30 | 0  | 44  | 56 | 0  | 3C 129   |
| 1101 | HME158 | 28 | 426 | 14534610 | 426 | 16418770 | 71  | 30 | 0  | 44  | 56 | 0  | 3C 129   |
| 1102 | HME158 | 29 | 426 | 16459730 | 426 | 16828370 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1103 | HME158 | 30 | 426 | 16869330 | 426 | 19695570 | 63  | 45 | 15 | 37  | 54 | 20 | 3C 111   |
| 1104 | HME158 | 31 | 426 | 19777490 | 426 | 25798610 | 63  | 45 | 15 | 37  | 54 | 20 | 3C 111   |
| 1105 | HME158 | 32 | 426 | 25839570 | 426 | 28993490 | 63  | 45 | 15 | 37  | 54 | 20 | 3C 111   |
| 1106 | HME158 | 33 | 426 | 29034450 | 426 | 29280210 | 63  | 45 | 15 | 37  | 54 | 20 | 3C 111   |
| 1107 | HME158 | 34 | 426 | 29321170 | 426 | 31860690 | 63  | 45 | 15 | 37  | 54 | 20 | 3C 111   |
| 1108 | HME158 | 35 | 426 | 31901650 | 426 | 32475090 | 63  | 45 | 15 | 37  | 54 | 20 | 3C 111   |
| 1109 | HME158 | 36 | 426 | 32516050 | 426 | 32761810 | 71  | 30 | 0  | 44  | 56 | 0  | 3C 111   |
| 1110 | HME158 | 37 | 426 | 32802770 | 426 | 33540050 | 71  | 30 | 0  | 44  | 56 | 0  | 3C 111   |
| 1111 | HME158 | 38 | 426 | 33581010 | 426 | 34686930 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1112 | HME158 | 39 | 426 | 34727890 | 426 | 38045650 | 234 | 40 | 3  | -52 | 13 | 38 | U1538-52 |
| 1113 | HME158 | 40 | 426 | 38086610 | 426 | 40871890 | 234 | 40 | 3  | -52 | 13 | 38 | U1538-52 |
| 1114 | HME159 | 1  | 426 | 40953810 | 426 | 42837970 | 234 | 40 | 3  | -52 | 13 | 38 | U1538-52 |
| 1115 | HME159 | 2  | 426 | 42878930 | 426 | 43124690 | 234 | 40 | 3  | -52 | 13 | 38 | U1538-52 |
| 1116 | HME159 | 3  | 426 | 43165650 | 426 | 51644370 | 234 | 40 | 3  | -52 | 13 | 38 | U1538-52 |
| 1117 | HME159 | 4  | 426 | 51767250 | 426 | 51931090 | 234 | 40 | 3  | -52 | 13 | 38 | U1538-52 |
| 1118 | HME159 | 5  | 426 | 51972050 | 426 | 52135890 | 234 | 40 | 3  | -52 | 13 | 38 | U1538-52 |
| 1119 | HME159 | 6  | 426 | 52299730 | 426 | 52914130 | 234 | 40 | 3  | -52 | 13 | 38 | U1538-52 |
| 1120 | HME159 | 7  | 426 | 52955090 | 426 | 53405650 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |



|      |        |    |     |          |     |          |     |    |    |     |    |    |          |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 1201 | HME159 | 36 | 435 | 17632219 | 435 | 21933019 | 261 | 55 | 29 | -21 | 27 | 6  | KEPLER   |
| 1202 | HME159 | 37 | 435 | 21973979 | 435 | 22752219 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1203 | HME159 | 38 | 435 | 22793179 | 435 | 25496539 | 67  | 37 | 54 | 5   | 14 | 59 | 3C 120   |
| 1204 | HME159 | 39 | 435 | 25537499 | 435 | 26192859 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1205 | HME159 | 40 | 435 | 26356699 | 435 | 27954139 | 235 | 53 | 28 | -62 | 24 | 56 | S1543-62 |
| 1206 | HME159 | 41 | 435 | 27995099 | 435 | 28609499 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1207 | HME160 | 1  | 435 | 28650459 | 435 | 30780379 | 67  | 37 | 54 | 5   | 14 | 59 | 3C 120   |
| 1208 | HME160 | 2  | 435 | 30821339 | 435 | 31640539 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1209 | HME160 | 3  | 435 | 31681499 | 435 | 32213979 | 235 | 53 | 28 | -62 | 24 | 56 | S1543-62 |
| 1210 | HME160 | 4  | 435 | 32869339 | 435 | 33688539 | 235 | 53 | 28 | -62 | 24 | 56 | S1543-62 |
| 1211 | HME160 | 5  | 435 | 33729499 | 435 | 34343899 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1212 | HME160 | 6  | 435 | 34384859 | 435 | 36842459 | 67  | 37 | 54 | 5   | 14 | 59 | 3C 120   |
| 1213 | HME160 | 7  | 435 | 36883419 | 435 | 37702619 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1214 | HME160 | 8  | 435 | 37743579 | 435 | 38439899 | 238 | 28 | 54 | -54 | 16 | 15 | S1553-54 |
| 1215 | HME160 | 9  | 435 | 38480859 | 435 | 39341019 | 238 | 28 | 54 | -54 | 16 | 15 | S1553-54 |
| 1216 | HME160 | 10 | 435 | 39381979 | 435 | 40037339 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1217 | HME160 | 11 | 435 | 40078299 | 435 | 42208219 | 67  | 37 | 54 | 5   | 14 | 59 | 3C 120   |
| 1218 | HME160 | 12 | 435 | 42249179 | 435 | 43109339 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1219 | HME160 | 13 | 435 | 43150299 | 435 | 44420060 | 238 | 28 | 54 | -54 | 16 | 15 | S1553-54 |
| 1220 | HME160 | 14 | 435 | 44501980 | 435 | 45075420 | 238 | 28 | 54 | -54 | 16 | 15 | S1553-54 |
| 1221 | HME160 | 15 | 435 | 45116380 | 435 | 45771740 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1222 | HME160 | 16 | 435 | 45812700 | 435 | 47901660 | 67  | 37 | 54 | 5   | 14 | 59 | 3C 120   |
| 1223 | HME160 | 17 | 435 | 47942620 | 435 | 48516060 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1224 | HME160 | 18 | 435 | 48557020 | 435 | 50523100 | 238 | 28 | 54 | -54 | 16 | 15 | S1553-54 |
| 1225 | HME160 | 19 | 435 | 50605020 | 435 | 51219420 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1226 | HME160 | 20 | 435 | 51260380 | 435 | 56544220 | 82  | 52 | 45 | 21  | 58 | 55 | CRAB     |
| 1227 | HME160 | 21 | 435 | 56585180 | 435 | 60271580 | 82  | 52 | 45 | 21  | 58 | 55 | CRAB     |
| 1228 | HME160 | 22 | 435 | 60312540 | 435 | 60804060 | 82  | 52 | 45 | 21  | 58 | 55 | CRAB     |
| 1229 | HME160 | 23 | 435 | 60845020 | 435 | 62647260 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1230 | HME160 | 24 | 435 | 62688220 | 435 | 66292700 | 87  | 26 | 24 | -7  | 28 | 0  | NGC 2110 |
| 1231 | HME160 | 25 | 435 | 66415580 | 435 | 67439580 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1232 | HME160 | 26 | 435 | 67480540 | 435 | 71986140 | 87  | 26 | 24 | -7  | 28 | 0  | NGC 2110 |
| 1233 | HME160 | 27 | 435 | 72109020 | 435 | 73542620 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1234 | HME160 | 28 | 435 | 73583580 | 435 | 77679580 | 87  | 26 | 24 | -7  | 28 | 0  | NGC 2110 |
| 1235 | HME160 | 29 | 435 | 77843420 | 435 | 79604700 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1236 | HME180 | 40 | 435 | 79645660 | 435 | 83373020 | 87  | 26 | 24 | -7  | 28 | 0  | NGC 2110 |
| 1237 | HME180 | 41 | 435 | 83413980 | 435 | 83577820 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1238 | HME160 | 30 | 443 | 5385188  | 443 | 5835748  | 82  | 52 | 45 | 21  | 58 | 55 | CRAB     |
| 1239 | HME160 | 31 | 443 | 5876708  | 443 | 7924708  | 82  | 52 | 45 | 21  | 58 | 55 | CRAB     |
| 1240 | HME160 | 32 | 443 | 7965668  | 443 | 8457188  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1241 | HME160 | 33 | 443 | 8498148  | 443 | 10750948 | 283 | 41 | 58 | 68  | 18 | 47 | A 2312   |
| 1242 | HME160 | 34 | 443 | 10791908 | 443 | 11406308 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1243 | HME160 | 35 | 443 | 11447268 | 443 | 12676068 | 81  | 54 | 7  | -32 | 51 | 30 | 0526-328 |
| 1244 | HME160 | 36 | 443 | 12717028 | 443 | 13454308 | 81  | 54 | 7  | -32 | 51 | 30 | 0526-328 |
| 1245 | HME160 | 37 | 443 | 13495268 | 443 | 13945828 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1246 | HME160 | 38 | 443 | 13986788 | 443 | 18738148 | 239 | 11 | 48 | -60 | 35 | 47 | 1556-605 |
| 1247 | HME160 | 39 | 443 | 18779108 | 443 | 20253668 | 239 | 11 | 48 | -60 | 35 | 47 | 1556-605 |
| 1248 | HME160 | 40 | 443 | 20294628 | 443 | 20786148 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1249 | HME165 | 1  | 443 | 20827108 | 443 | 24882148 | 81  | 54 | 7  | -32 | 51 | 30 | 0526-328 |
| 1250 | HME165 | 2  | 443 | 24923108 | 443 | 25496548 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1251 | HME165 | 3  | 443 | 25537508 | 443 | 27831268 | 265 | 36 | 34 | -28 | 59 | 56 | 1742-289 |
| 1252 | HME165 | 4  | 443 | 27872228 | 443 | 28077028 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1253 | HME165 | 5  | 443 | 28117988 | 443 | 30862308 | 254 | 43 | 53 | -29 | 52 | 26 | S1659-29 |
| 1254 | HME165 | 6  | 443 | 30944228 | 443 | 36924388 | 254 | 43 | 53 | -29 | 52 | 26 | S1659-29 |
| 1255 | HME165 | 7  | 443 | 36965348 | 443 | 37538788 | 254 | 43 | 53 | -29 | 52 | 26 | S1659-29 |
| 1256 | HME165 | 8  | 443 | 37579748 | 443 | 37784548 | 254 | 43 | 53 | -29 | 52 | 26 | S1659-29 |
| 1257 | HME165 | 9  | 443 | 37825508 | 443 | 38357988 | 254 | 43 | 53 | -29 | 52 | 26 | S1659-29 |
| 1258 | HME165 | 10 | 443 | 38398948 | 443 | 38931428 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1259 | HME165 | 11 | 443 | 38972388 | 443 | 41962468 | 81  | 54 | 7  | -32 | 51 | 30 | 0526-328 |
| 1260 | HME165 | 12 | 443 | 42003428 | 443 | 42494948 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1261 | HME165 | 13 | 443 | 42535908 | 443 | 43027428 | 265 | 36 | 34 | -28 | 59 | 56 | 1742-289 |
| 1262 | HME165 | 14 | 443 | 43068388 | 443 | 44993508 | 265 | 36 | 34 | -28 | 59 | 56 | 1742-289 |
| 1263 | HME165 | 15 | 443 | 45034468 | 443 | 45321188 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1264 | HME165 | 16 | 443 | 45362148 | 443 | 47860708 | 249 | 14 | 3  | -53 | 39 | 15 | 1636-536 |
| 1265 | HME165 | 17 | 443 | 47901668 | 443 | 53062628 | 249 | 14 | 3  | -53 | 39 | 15 | 1636-536 |
| 1266 | HME165 | 18 | 443 | 53103588 | 443 | 56503268 | 249 | 14 | 3  | -53 | 39 | 15 | 1636-536 |
| 1267 | HME165 | 19 | 443 | 56544228 | 443 | 56830948 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1268 | HME165 | 20 | 443 | 56871908 | 443 | 59984868 | 254 | 45 | 29 | -48 | 43 | 6  | 1658-48  |
| 1269 | HME165 | 21 | 443 | 60025828 | 443 | 61746148 | 254 | 45 | 29 | -48 | 43 | 6  | 1658-48  |
| 1270 | HME165 | 22 | 443 | 61787108 | 443 | 61991908 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1271 | HME165 | 23 | 443 | 62032868 | 443 | 66128868 | 250 | 32 | 31 | -45 | 31 | 11 | 1642-45  |
| 1272 | HME165 | 24 | 443 | 66169828 | 443 | 69282788 | 250 | 32 | 31 | -45 | 31 | 11 | 1642-45  |
| 1273 | HME165 | 25 | 443 | 69323749 | 443 | 69692389 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1274 | HME165 | 26 | 443 | 69733349 | 443 | 71289829 | 262 | 14 | 33 | -24 | 42 | 50 | GX 1+4   |
| 1275 | HME165 | 27 | 443 | 71371749 | 443 | 77474789 | 262 | 14 | 33 | -24 | 42 | 50 | GX 1+4   |
| 1276 | HME165 | 28 | 443 | 77515749 | 443 | 80587749 | 262 | 14 | 33 | -24 | 42 | 50 | GX 1+4   |
| 1277 | HME165 | 29 | 443 | 80628709 | 443 | 80874469 | 262 | 14 | 33 | -24 | 42 | 50 | GX 1+4   |
| 1278 | HME165 | 30 | 443 | 80915429 | 443 | 83454949 | 262 | 14 | 33 | -24 | 42 | 50 | GX 1+4   |
| 1279 | HME165 | 31 | 443 | 83495909 | 443 | 84806629 | 262 | 14 | 33 | -24 | 42 | 50 | GX 1+4   |
| 1280 | HME165 | 32 | 443 | 84847589 | 443 | 85093349 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 1281 | HME161 | 1  | 443 | 85134309 | 444 | 3157989  | 250 | 32 | 31 | -45 | 31 | 11 | S1642-45 |
| 1282 | HME161 | 2  | 444 | 3198949  | 444 | 4059109  | 250 | 32 | 31 | -45 | 31 | 11 | S1642-45 |
| 1283 | HME161 | 3  | 444 | 4100069  | 444 | 4304869  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1284 | HME161 | 4  | 444 | 4345829  | 444 | 11677669 | 256 | 19 | 33 | -44 | 2  | 10 | S1705-44 |
| 1285 | HME161 | 5  | 444 | 11759589 | 444 | 15609829 | 256 | 19 | 33 | -44 | 2  | 10 | S1705-44 |
| 1286 | HME161 | 6  | 444 | 15650789 | 444 | 15978469 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1287 | HME161 | 7  | 444 | 16019429 | 444 | 17821669 | 255 | 40 | 5  | -42 | 57 | 58 | 1702-429 |
| 1288 | HME161 | 8  | 444 | 17862629 | 444 | 18231269 | 255 | 40 | 5  | -42 | 57 | 58 | 1702-429 |
| 1289 | HME161 | 9  | 444 | 18395109 | 444 | 23965669 | 255 | 40 | 5  | -42 | 57 | 58 | 1702-429 |
| 1290 | HME161 | 10 | 444 | 24006629 | 444 | 26996709 | 255 | 40 | 5  | -42 | 57 | 58 | 1702-429 |
| 1291 | HME161 | 11 | 444 | 27037669 | 444 | 27488229 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1292 | HME161 | 12 | 444 | 27529189 | 444 | 29945829 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1293 | HME161 | 13 | 444 | 29986789 | 444 | 36007909 | 262 | 31 | 45 | -33 | 21 | 17 | 1703-335 |
| 1294 | HME161 | 14 | 444 | 36048869 | 444 | 37482469 | 262 | 31 | 45 | -33 | 21 | 17 | 1703-335 |
| 1295 | HME161 | 15 | 444 | 37523429 | 444 | 37769189 | 262 | 31 | 45 | -33 | 21 | 17 | 1730-335 |
| 1296 | HME161 | 16 | 444 | 37810149 | 444 | 42029029 | 262 | 31 | 45 | -33 | 21 | 17 | 1730-335 |
| 1297 | HME161 | 17 | 444 | 42069989 | 444 | 44077029 | 262 | 31 | 45 | -33 | 21 | 17 | 1730-335 |
| 1298 | HME161 | 18 | 444 | 44117989 | 444 | 44404709 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1299 | HME161 | 19 | 444 | 44445669 | 444 | 46903269 | 255 | 8  | 11 | -37 | 46 | 27 | U1700-37 |
| 1300 | HME161 | 20 | 444 | 46944229 | 444 | 53006309 | 255 | 8  | 11 | -37 | 46 | 27 | U1700-37 |
| 1301 | HME161 | 21 | 444 | 53047269 | 444 | 55996389 | 255 | 8  | 11 | -37 | 46 | 27 | U1700-37 |
| 1302 | HME161 | 22 | 444 | 56037349 | 444 | 56283109 | 255 | 8  | 11 | -37 | 46 | 27 | U1700-37 |
| 1303 | HME161 | 23 | 444 | 56324069 | 444 | 58208229 | 255 | 8  | 11 | -37 | 46 | 27 | U1700-37 |
| 1304 | HME161 | 24 | 444 | 58249189 | 444 | 59027429 | 255 | 8  | 11 | -37 | 46 | 27 | U1700-37 |
| 1305 | HME161 | 25 | 444 | 59191269 | 444 | 65253350 | 255 | 35 | 51 | -36 | 21 | 24 | SCO X-2  |
| 1306 | HME161 | 26 | 444 | 65294310 | 444 | 66809830 | 255 | 35 | 51 | -36 | 21 | 24 | SCO X-2  |
| 1307 | HME161 | 27 | 444 | 66850790 | 444 | 67137510 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1308 | HME161 | 28 | 444 | 67178470 | 444 | 70373350 | 258 | 52 | 56 | -32 | 7  | 15 | 1715-321 |
| 1309 | HME161 | 29 | 444 | 70414310 | 444 | 76435430 | 258 | 52 | 56 | -32 | 7  | 15 | 1715-321 |
| 1310 | HME162 | 1  | 444 | 76476390 | 444 | 77541350 | 258 | 52 | 56 | -32 | 7  | 15 | 1715-321 |
| 1311 | HME162 | 2  | 444 | 77582310 | 444 | 77828070 | 258 | 52 | 56 | -32 | 7  | 15 | 1715-321 |
| 1312 | HME162 | 3  | 444 | 77869030 | 444 | 78237670 | 258 | 52 | 56 | -32 | 7  | 15 | 1715-321 |
| 1313 | HME162 | 4  | 444 | 78278630 | 444 | 78442470 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1314 | HME162 | 5  | 444 | 78483430 | 444 | 82456550 | 262 | 49 | 45 | -44 | 25 | 19 | U1735-44 |
| 1315 | HME162 | 6  | 444 | 82579430 | 444 | 83152870 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1316 | HME162 | 7  | 444 | 83193830 | 444 | 84955110 | 82  | 52 | 45 | 21  | 58 | 55 | CRAB     |
| 1317 | HME162 | 8  | 444 | 84996070 | 445 | 29670    | 82  | 52 | 45 | 21  | 58 | 55 | CRAB     |
| 1318 | HME162 | 9  | 445 | 70630    | 445 | 234470   | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1319 | HME183 | 17 | 448 | 270313   | 448 | 1867753  | 83  | 12 | 18 | -5  | 25 | 8  | 0531-05  |
| 1320 | HME183 | 18 | 448 | 1908713  | 448 | 3383273  | 83  | 12 | 18 | -5  | 25 | 8  | 0531-05  |
| 1321 | HME183 | 19 | 448 | 3424233  | 448 | 3710953  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1322 | HME183 | 20 | 448 | 3751913  | 448 | 6455273  | 82  | 52 | 45 | 21  | 58 | 55 | CRAB 1   |
| 1323 | HME183 | 21 | 448 | 6619113  | 448 | 7069673  | 82  | 54 | 15 | 21  | 58 | 23 | CRAB 2   |
| 1324 | HME183 | 22 | 448 | 7192553  | 448 | 7643113  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1325 | HME183 | 23 | 448 | 7765993  | 448 | 7888873  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1326 | HME183 | 24 | 448 | 7929833  | 448 | 8257513  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1327 | HME183 | 25 | 448 | 8380393  | 448 | 8749033  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1328 | HME183 | 26 | 448 | 8789993  | 448 | 9404393  | 82  | 54 | 15 | 22  | 0  | 23 | CRAB     |
| 1329 | HME183 | 27 | 448 | 9445353  | 448 | 12148713 | 265 | 43 | 22 | -29 | 29 | 50 | 1792-29  |
| 1330 | HME183 | 28 | 448 | 12189673 | 448 | 12845033 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1331 | HME183 | 29 | 448 | 12885993 | 448 | 14073833 | 83  | 12 | 18 | -5  | 25 | 8  | 0531-05  |
| 1332 | HME183 | 30 | 448 | 14155753 | 448 | 14565353 | 83  | 12 | 18 | -5  | 25 | 8  | 0531-05  |
| 1333 | HME183 | 31 | 448 | 14606313 | 448 | 15220713 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1334 | HME183 | 32 | 448 | 15261673 | 448 | 17842153 | 264 | 43 | 22 | -29 | 29 | 50 | 1742-294 |
| 1335 | HME183 | 33 | 448 | 17883113 | 448 | 18128873 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1336 | HME183 | 34 | 448 | 18169833 | 448 | 20135913 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1337 | HME183 | 35 | 448 | 20176873 | 448 | 26157033 | 262 | 12 | 26 | -16 | 55 | 15 | GX 9+9   |
| 1338 | HME183 | 36 | 448 | 26197993 | 448 | 28082153 | 262 | 12 | 26 | -16 | 55 | 15 | GX 9+9   |
| 1339 | HME183 | 37 | 448 | 28123113 | 448 | 28942314 | 262 | 12 | 26 | -16 | 55 | 15 | GX 9+9   |
| 1340 | HME183 | 38 | 448 | 28983274 | 448 | 31727594 | 81  | 54 | 7  | -32 | 51 | 30 | 0526-32  |
| 1341 | HME183 | 39 | 448 | 31768554 | 448 | 32219114 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1342 | HME183 | 40 | 448 | 32341994 | 448 | 34185194 | 266 | 12 | 13 | -26 | 32 | 51 | 1744-26  |
| 1343 | HME183 | 41 | 448 | 34226154 | 448 | 34799594 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1344 | HME183 | 42 | 448 | 34840554 | 448 | 37093354 | 81  | 54 | 7  | -32 | 51 | 30 | 0526-32  |
| 1345 | HME183 | 43 | 448 | 37134314 | 448 | 37421034 | 81  | 54 | 7  | -32 | 51 | 30 | 0526-32  |
| 1346 | HME183 | 44 | 448 | 37461994 | 448 | 38035434 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1347 | HME183 | 45 | 448 | 38076394 | 448 | 40329194 | 266 | 12 | 13 | -26 | 32 | 51 | 1744-26  |
| 1348 | HME183 | 46 | 448 | 40370154 | 448 | 40820714 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1349 | HME174 | 1  | 448 | 40861674 | 448 | 45613034 | 253 | 16 | 41 | -40 | 44 | 42 | 1653-40  |
| 1350 | HME174 | 2  | 448 | 45653994 | 448 | 49217514 | 253 | 16 | 41 | -40 | 44 | 42 | 1653-40  |
| 1351 | HME174 | 3  | 448 | 49258474 | 448 | 50692074 | 253 | 16 | 41 | -40 | 44 | 42 | 1653-40  |
| 1352 | HME174 | 4  | 448 | 50733034 | 448 | 50978794 | 253 | 16 | 41 | -40 | 44 | 42 | 1653-40  |
| 1353 | HME174 | 5  | 448 | 51019754 | 448 | 52002794 | 253 | 16 | 41 | -40 | 44 | 42 | 1653-40  |
| 1354 | HME174 | 6  | 448 | 52043754 | 448 | 52617194 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1355 | HME174 | 7  | 448 | 52658154 | 448 | 54665194 | 83  | 12 | 18 | -5  | 25 | 8  | 0531-05  |
| 1356 | HME174 | 8  | 448 | 54706154 | 448 | 55238634 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1357 | HME174 | 9  | 448 | 55320554 | 448 | 57696234 | 266 | 12 | 13 | -26 | 32 | 51 | 1744-26  |
| 1358 | HME174 | 10 | 448 | 57860074 | 448 | 61341674 | 266 | 12 | 13 | -26 | 32 | 51 | 1744-26  |
| 1359 | HME174 | 11 | 448 | 61382634 | 448 | 63389674 | 266 | 12 | 13 | -26 | 32 | 51 | 1744-26  |
| 1360 | HME174 | 12 | 448 | 63430634 | 448 | 63758314 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 1361 | HME174 | 13 | 448 | 63799274 | 448 | 66543594 | 262 | 9  | 52 | -33 | 47 | 49 | 1728-32  |
| 1362 | HME174 | 14 | 448 | 66625514 | 448 | 72646634 | 262 | 9  | 52 | -33 | 47 | 49 | 1728-32  |
| 1363 | HME174 | 15 | 448 | 72687594 | 448 | 73015274 | 262 | 9  | 52 | -33 | 47 | 49 | 1728-32  |
| 1364 | HME174 | 16 | 448 | 73056234 | 448 | 73301994 | 262 | 9  | 52 | -33 | 47 | 49 | 1728-32  |
| 1365 | HME174 | 17 | 448 | 73342954 | 448 | 74817514 | 262 | 9  | 52 | -33 | 47 | 49 | 1728-32  |
| 1366 | HME174 | 18 | 448 | 74940394 | 448 | 75390954 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1367 | HME174 | 19 | 448 | 75431914 | 448 | 77316074 | 81  | 54 | 7  | -32 | 51 | 30 | 0526-32  |
| 1368 | HME174 | 20 | 448 | 77357034 | 448 | 77889514 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1369 | HME174 | 21 | 448 | 77930474 | 448 | 78749674 | 266 | 41 | 58 | -37 | 2  | 17 | NGC 6441 |
| 1370 | HME174 | 22 | 448 | 78790634 | 448 | 80551914 | 266 | 41 | 58 | -37 | 2  | 17 | NGC 6441 |
| 1371 | HME174 | 23 | 448 | 80592874 | 448 | 81125354 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1372 | HME174 | 24 | 448 | 81166314 | 448 | 83050474 | 81  | 54 | 7  | -32 | 51 | 30 | 0526-32  |
| 1373 | HME174 | 25 | 448 | 83091434 | 448 | 83582954 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1374 | HME174 | 26 | 448 | 83623914 | 448 | 86368234 | 266 | 41 | 58 | -37 | 2  | 17 | NGC 6441 |
| 1375 | HME162 | 10 | 449 | 9194     | 449 | 541674   | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1376 | HME162 | 11 | 449 | 582634   | 449 | 869354   | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1377 | HME162 | 12 | 449 | 910314   | 449 | 2343914  | 81  | 54 | 7  | -32 | 51 | 30 | 0526-32  |
| 1378 | HME162 | 13 | 449 | 2384874  | 449 | 2876394  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1379 | HME162 | 14 | 449 | 2917354  | 449 | 6931434  | 263 | 49 | 43 | -44 | 25 | 15 | 1735-44  |
| 1380 | HME162 | 15 | 449 | 6972394  | 449 | 11355114 | 263 | 49 | 43 | -44 | 25 | 15 | 1735-44  |
| 1381 | HME162 | 16 | 449 | 11396074 | 449 | 11846634 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1382 | HME162 | 17 | 449 | 11887594 | 449 | 13116394 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1383 | HME162 | 18 | 449 | 13157354 | 449 | 16884714 | 269 | 38 | 18 | -20 | 31 | 44 | 1758-20  |
| 1384 | HME162 | 19 | 449 | 16925674 | 449 | 17335274 | 269 | 38 | 18 | -20 | 31 | 44 | 1758-20  |
| 1385 | HME162 | 20 | 449 | 17376234 | 449 | 19178474 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1386 | HME162 | 21 | 449 | 19219434 | 449 | 25199595 | 262 | 33 | 13 | -13 | 2  | 11 | NRAO 530 |
| 1387 | HME162 | 22 | 449 | 25240555 | 449 | 29459435 | 262 | 33 | 13 | -13 | 2  | 11 | NRAO 530 |
| 1388 | HME162 | 23 | 449 | 29500395 | 449 | 29746155 | 262 | 33 | 13 | -13 | 2  | 11 | NRAO 530 |
| 1389 | HME162 | 24 | 449 | 29787115 | 449 | 31261675 | 262 | 33 | 13 | -13 | 2  | 11 | NRAO 530 |
| 1390 | HME162 | 25 | 449 | 31302635 | 449 | 33801195 | 262 | 33 | 13 | -13 | 2  | 11 | NRAO 530 |
| 1391 | HME162 | 26 | 449 | 33842155 | 449 | 34210795 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1392 | HME162 | 27 | 449 | 34251755 | 449 | 36176875 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1393 | HME162 | 28 | 449 | 36217835 | 449 | 39699435 | 269 | 38 | 18 | -20 | 31 | 44 | 1758-20  |
| 1394 | HME162 | 29 | 449 | 39740395 | 449 | 40190955 | 269 | 38 | 18 | -20 | 31 | 44 | 1758-20  |
| 1395 | HME162 | 30 | 449 | 40231915 | 449 | 41255915 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1396 | HME162 | 31 | 449 | 42157035 | 449 | 47358955 | 255 | 8  | 11 | -37 | 46 | 27 | 1700-37  |
| 1397 | HME162 | 32 | 449 | 47399915 | 449 | 49488875 | 255 | 8  | 11 | -37 | 46 | 27 | 1700-37  |
| 1398 | HME162 | 33 | 449 | 49529835 | 449 | 49775595 | 255 | 8  | 11 | -37 | 46 | 27 | 1700-37  |
| 1399 | HME162 | 34 | 449 | 49816555 | 449 | 51086315 | 255 | 8  | 11 | -37 | 46 | 27 | 1700-37  |
| 1400 | HME162 | 35 | 449 | 51127275 | 449 | 51659755 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1401 | HME162 | 36 | 449 | 51700715 | 449 | 54281195 | 269 | 38 | 18 | -20 | 31 | 44 | 1758-20  |
| 1402 | HME162 | 37 | 449 | 54363115 | 449 | 54567915 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1403 | HME162 | 38 | 449 | 54608875 | 449 | 59728875 | 269 | 30 | 32 | -25 | 4  | 37 | GX 5-1   |
| 1404 | HME162 | 39 | 449 | 59769835 | 449 | 62555115 | 269 | 30 | 32 | -25 | 4  | 31 | GX 5-1   |
| 1405 | HME162 | 40 | 449 | 62596075 | 449 | 63456235 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1406 | HME162 | 41 | 449 | 63497195 | 449 | 65709035 | 83  | 56 | 56 | 26  | 17 | 19 | 0535+26  |
| 1407 | HME163 | 1  | 449 | 65790955 | 449 | 71689195 | 83  | 56 | 56 | 26  | 17 | 19 | 0535+26  |
| 1408 | HME163 | 2  | 449 | 71730155 | 449 | 72262635 | 83  | 56 | 56 | 26  | 17 | 19 | 0535+26  |
| 1409 | HME163 | 3  | 449 | 72303595 | 449 | 72549355 | 83  | 56 | 56 | 26  | 17 | 19 | 0535+26  |
| 1410 | HME163 | 4  | 449 | 72590315 | 449 | 75211755 | 83  | 56 | 56 | 26  | 17 | 19 | 0535+26  |
| 1411 | HME163 | 5  | 449 | 75252715 | 449 | 75416555 | 83  | 56 | 56 | 26  | 17 | 19 | 0535+26  |
| 1412 | HME163 | 6  | 449 | 75457515 | 449 | 77792235 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1413 | HME163 | 7  | 449 | 77833195 | 449 | 79717355 | 82  | 52 | 45 | 21  | 58 | 55 | CRAB 1   |
| 1414 | HME163 | 8  | 449 | 79758315 | 449 | 79922155 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1415 | HME163 | 9  | 449 | 79963115 | 449 | 80372715 | 82  | 54 | 15 | 21  | 58 | 23 | CRAB 2   |
| 1416 | HME163 | 10 | 449 | 80495595 | 449 | 80864235 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1417 | HME163 | 11 | 449 | 80905195 | 449 | 81069035 | 82  | 58 | 35 | 21  | 58 | 23 | CRAB 6   |
| 1418 | HME163 | 12 | 449 | 81109995 | 449 | 81478635 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1419 | HME163 | 13 | 449 | 81601515 | 449 | 81929195 | 82  | 49 | 56 | 21  | 58 | 23 | CRAB 7   |
| 1420 | HME163 | 14 | 449 | 82052075 | 449 | 82420715 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1421 | HME163 | 15 | 449 | 82461675 | 449 | 83117035 | 82  | 52 | 6  | 21  | 58 | 23 | CRAB 8   |
| 1422 | HME163 | 16 | 449 | 83157995 | 449 | 85451755 | 268 | 50 | 16 | -33 | 48 | 14 | 1755-33  |
| 1423 | HME163 | 17 | 449 | 85492715 | 449 | 85656555 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1424 | HME174 | 27 | 453 | 83956720 | 453 | 84407280 | 278 | 17 | 58 | 32  | 39 | 18 | 3C 382   |
| 1425 | HME174 | 28 | 453 | 84448240 | 454 | 874480   | 278 | 17 | 58 | 32  | 39 | 18 | 3C 382   |
| 1426 | HME174 | 29 | 454 | 915440   | 454 | 1447920  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1427 | HME174 | 30 | 454 | 1488880  | 454 | 2226160  | 87  | 47 | 29 | 46  | 25 | 55 | MCG 8-11 |
| 1428 | HME174 | 31 | 454 | 2308080  | 454 | 3127280  | 87  | 47 | 29 | 46  | 25 | 55 | MCG 8-11 |
| 1429 | HME174 | 32 | 454 | 3209200  | 454 | 3414000  | 87  | 47 | 29 | 46  | 25 | 55 | MCG 8-11 |
| 1430 | HME174 | 33 | 454 | 3454960  | 454 | 3987440  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1431 | HME174 | 34 | 454 | 4028400  | 454 | 6363120  | 278 | 17 | 58 | 32  | 39 | 18 | 3C 382   |
| 1432 | HME174 | 35 | 454 | 6404080  | 454 | 7100400  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1433 | HME174 | 36 | 454 | 7141360  | 454 | 9107440  | 87  | 47 | 29 | 46  | 25 | 55 | MCG 8-11 |
| 1434 | HME174 | 37 | 454 | 9148400  | 454 | 9680880  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1435 | HME174 | 38 | 454 | 9721840  | 454 | 12056560 | 278 | 17 | 58 | 32  | 39 | 18 | 3C 382   |
| 1436 | HME174 | 39 | 454 | 12097520 | 454 | 12793840 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1437 | HME174 | 40 | 454 | 12834800 | 454 | 14800880 | 87  | 47 | 29 | 46  | 25 | 55 | MCG 8-11 |
| 1438 | HME174 | 41 | 454 | 14841840 | 454 | 15456240 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1439 | HME174 | 42 | 454 | 15497200 | 454 | 15824880 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1440 | HME174 | 43 | 454 | 15906800 | 454 | 25286640 | 130 | 0  | 0  | -79 | 60 | 0  | BLANK    |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 1441 | HME175 | 1  | 454 | 25327600 | 454 | 29095920 | 130 | 0  | 0  | -79 | 60 | 0  | BLANK    |
| 1442 | HME175 | 2  | 454 | 29136880 | 454 | 29751280 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1443 | HME175 | 3  | 454 | 29792240 | 454 | 30406640 | 93  | 35 | 35 | 9   | 9  | 25 | 0614+09  |
| 1444 | HME175 | 4  | 454 | 30447600 | 454 | 31799280 | 93  | 35 | 35 | 9   | 9  | 25 | 0614+09  |
| 1445 | HME175 | 5  | 454 | 31840240 | 454 | 32659440 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1446 | HME175 | 6  | 454 | 32700400 | 454 | 34584560 | 278 | 17 | 58 | 32  | 39 | 18 | 3C 382   |
| 1447 | HME175 | 7  | 454 | 34625520 | 454 | 35280880 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1448 | HME175 | 8  | 454 | 35321840 | 454 | 36468720 | 93  | 35 | 35 | 9   | 9  | 25 | 0614+09  |
| 1449 | HME175 | 9  | 454 | 36509680 | 454 | 37451760 | 93  | 35 | 35 | 9   | 9  | 25 | 0614+09  |
| 1450 | HME175 | 10 | 454 | 37492720 | 454 | 38066160 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1451 | HME175 | 11 | 454 | 38107120 | 454 | 40278000 | 278 | 17 | 58 | 32  | 39 | 18 | 3C 382   |
| 1452 | HME175 | 12 | 454 | 40318960 | 454 | 40851440 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1453 | HME175 | 13 | 454 | 40892400 | 454 | 43431920 | 87  | 47 | 29 | 46  | 25 | 55 | MCG 8-11 |
| 1454 | HME175 | 14 | 454 | 43513840 | 454 | 44292080 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1455 | HME175 | 15 | 454 | 44333040 | 454 | 46135280 | 268 | 57 | 58 | 15  | 8  | 28 | Z HER    |
| 1456 | HME175 | 16 | 454 | 46176240 | 454 | 46790640 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1457 | HME175 | 17 | 454 | 46831600 | 454 | 49043440 | 87  | 47 | 29 | 46  | 25 | 55 | MCG 8-11 |
| 1458 | HME175 | 18 | 454 | 49084400 | 454 | 49494000 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1459 | HME175 | 19 | 454 | 49534960 | 454 | 49862640 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1460 | HME175 | 20 | 454 | 49903600 | 454 | 51828720 | 268 | 57 | 58 | 15  | 8  | 28 | Z HER    |
| 1461 | HME175 | 21 | 454 | 51869680 | 454 | 52566000 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1462 | HME175 | 22 | 454 | 52606960 | 454 | 54695921 | 93  | 35 | 35 | 9   | 9  | 25 | 0614+09  |
| 1463 | HME175 | 23 | 454 | 54777841 | 454 | 55392241 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1464 | HME175 | 24 | 454 | 55433201 | 454 | 60839921 | 289 | 14 | 12 | -58 | 45 | 50 | ESO 141  |
| 1465 | HME175 | 25 | 454 | 60880881 | 454 | 63338481 | 289 | 14 | 12 | -58 | 45 | 50 | ESO 141  |
| 1466 | HME175 | 26 | 454 | 63379441 | 454 | 63625201 | 289 | 14 | 12 | -58 | 45 | 50 | ESO 141  |
| 1467 | HME175 | 27 | 454 | 63666161 | 454 | 66902001 | 289 | 14 | 12 | -58 | 45 | 50 | ESO 141  |
| 1468 | HME175 | 28 | 454 | 67434481 | 454 | 70178801 | 289 | 14 | 12 | -58 | 45 | 50 | ESO 141  |
| 1469 | HME175 | 29 | 454 | 70219761 | 454 | 70752241 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1470 | HME175 | 30 | 454 | 70793201 | 454 | 75053041 | 268 | 57 | 58 | 15  | 8  | 28 | Z HER    |
| 1471 | HME175 | 31 | 454 | 75094001 | 454 | 75462641 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1472 | HME175 | 32 | 454 | 75503601 | 454 | 75749361 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1473 | HME175 | 33 | 454 | 75790321 | 454 | 81565681 | 93  | 35 | 35 | 9   | 9  | 25 | 0614+09  |
| 1474 | HME175 | 34 | 454 | 81606641 | 454 | 82917361 | 93  | 35 | 35 | 9   | 9  | 25 | 0614+09  |
| 1475 | HME175 | 35 | 454 | 82958321 | 454 | 83613681 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1476 | HME175 | 36 | 454 | 83654641 | 454 | 85948401 | 268 | 57 | 58 | 15  | 8  | 28 | Z HER    |
| 1477 | HME175 | 37 | 454 | 85989361 | 454 | 86358001 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1478 | HME175 | 38 | 454 | 86398961 | 455 | 1268721  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1479 | HME175 | 39 | 455 | 1309681  | 455 | 5938161  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1480 | HME175 | 40 | 455 | 5979121  | 455 | 6552561  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1481 | HME175 | 41 | 455 | 6593521  | 455 | 7330801  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1482 | HME175 | 42 | 455 | 7371761  | 455 | 13351921 | 273 | 17 | 29 | -14 | 3  | 10 | GX17+2   |
| 1483 | HME176 | 1  | 455 | 13392881 | 455 | 19373041 | 273 | 17 | 29 | -14 | 3  | 10 | GX17+2   |
| 1484 | HME176 | 2  | 455 | 19414001 | 455 | 21871601 | 273 | 17 | 29 | -14 | 3  | 10 | GX17+2   |
| 1485 | HME176 | 3  | 455 | 21912561 | 455 | 22281201 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1486 | HME176 | 4  | 455 | 22322161 | 455 | 24247281 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1487 | HME176 | 5  | 455 | 24288241 | 455 | 28752881 | 279 | 22 | 24 | 4   | 59 | 21 | 1837+05  |
| 1488 | HME176 | 6  | 455 | 28916721 | 455 | 29490161 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1489 | HME176 | 7  | 455 | 29531121 | 455 | 34446321 | 279 | 22 | 24 | 4   | 59 | 21 | 1837+05  |
| 1490 | HME176 | 8  | 455 | 34610161 | 455 | 36371441 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1491 | HME176 | 9  | 455 | 36412401 | 455 | 38378481 | 279 | 22 | 24 | 4   | 59 | 21 | 1837+05  |
| 1492 | HME176 | 10 | 455 | 38419441 | 455 | 38624241 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1493 | HME176 | 11 | 455 | 38665201 | 455 | 42474481 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1494 | HME176 | 12 | 455 | 42515441 | 455 | 45177842 | 287 | 20 | 17 | 4   | 53 | 53 | SS 433   |
| 1495 | HME176 | 13 | 455 | 45218802 | 455 | 45341682 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1496 | HME176 | 14 | 455 | 45382642 | 455 | 47717362 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1497 | HME176 | 15 | 455 | 47758322 | 455 | 51649522 | 287 | 20 | 17 | 4   | 53 | 53 | SS 433   |
| 1498 | HME176 | 16 | 455 | 51690482 | 455 | 52222962 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1499 | HME176 | 17 | 455 | 52263922 | 455 | 53861362 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1500 | HME176 | 18 | 455 | 53902322 | 455 | 59882482 | 268 | 50 | 19 | -33 | 48 | 15 | 1755-338 |
| 1501 | HME176 | 19 | 455 | 59923442 | 455 | 64551922 | 268 | 50 | 19 | -33 | 48 | 15 | 1755-338 |
| 1502 | HME176 | 20 | 455 | 64592882 | 455 | 64838642 | 268 | 50 | 19 | -33 | 48 | 15 | 1755-338 |
| 1503 | HME176 | 21 | 455 | 64879602 | 455 | 65903602 | 268 | 50 | 19 | -33 | 48 | 15 | 1755-338 |
| 1504 | HME176 | 22 | 455 | 65944562 | 455 | 68729842 | 268 | 50 | 19 | -33 | 48 | 15 | 1755-338 |
| 1505 | HME176 | 23 | 455 | 68770802 | 455 | 68975602 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1506 | HME176 | 24 | 455 | 69016562 | 455 | 74218482 | 270 | 56 | 25 | -24 | 35 | 38 | 1803-245 |
| 1507 | HME176 | 25 | 455 | 74546162 | 455 | 80075762 | 270 | 56 | 25 | -24 | 35 | 38 | 1803-245 |
| 1508 | HME176 | 26 | 455 | 80116722 | 455 | 80649202 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1509 | HME176 | 27 | 455 | 80690162 | 455 | 80935922 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1510 | HME176 | 28 | 455 | 80976882 | 455 | 85851122 | 287 | 20 | 17 | 4   | 53 | 53 | SS 433   |
| 1511 | HME176 | 29 | 455 | 85892082 | 455 | 86055922 | 287 | 20 | 17 | 4   | 53 | 53 | SS 433   |
| 1512 | HME181 | 1  | 461 | 275448   | 461 | 603128   | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1513 | HME181 | 2  | 461 | 644088   | 461 | 1422328  | 93  | 42 | 0  | 22  | 45 | 0  | IC 443   |
| 1514 | HME181 | 3  | 461 | 1463288  | 461 | 2774008  | 93  | 42 | 0  | 22  | 45 | 0  | IC 443   |
| 1515 | HME181 | 4  | 461 | 2814968  | 461 | 3470328  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1516 | HME181 | 5  | 461 | 3511288  | 461 | 5477368  | 287 | 10 | 43 | 0   | 30 | 4  | AQL X-1  |
| 1517 | HME181 | 6  | 461 | 5518328  | 461 | 5805048  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1518 | HME181 | 7  | 461 | 5846008  | 461 | 8754168  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1519 | HME181 | 8  | 461 | 8795128  | 461 | 14816248 | 272 | 54 | 16 | -17 | 10 | 16 | S1811-17 |
| 1520 | HME181 | 9  | 461 | 14857208 | 461 | 20919288 | 272 | 54 | 16 | -17 | 10 | 16 | S1811-17 |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 1521 | HME181 | 10 | 461 | 20960248 | 461 | 21615608 | 272 | 54 | 16 | -17 | 10 | 16 | S1811-17 |
| 1522 | HME181 | 11 | 461 | 21656568 | 461 | 22434808 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1523 | HME181 | 12 | 461 | 22475768 | 461 | 23622648 | 93  | 20 | 0  | 22  | 50 | 0  | IC 443   |
| 1524 | HME181 | 13 | 461 | 23663608 | 461 | 25588728 | 93  | 20 | 0  | 22  | 50 | 0  | IC 443   |
| 1525 | HME181 | 14 | 461 | 25629688 | 461 | 26612728 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1526 | HME181 | 15 | 461 | 26653688 | 461 | 28251128 | 287 | 10 | 43 | 0   | 30 | 4  | AQL X-1  |
| 1527 | HME181 | 16 | 461 | 28292088 | 461 | 29029368 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1528 | HME181 | 17 | 461 | 29070328 | 461 | 30544888 | 93  | 20 | 0  | 22  | 50 | 0  | IC 433   |
| 1529 | HME181 | 18 | 461 | 30585848 | 461 | 31118328 | 93  | 20 | 0  | 22  | 50 | 0  | IC 433   |
| 1530 | HME181 | 19 | 461 | 31282168 | 461 | 36606968 | 93  | 20 | 0  | 22  | 51 | 0  | IC 433   |
| 1531 | HME181 | 20 | 461 | 36647928 | 461 | 41849848 | 93  | 30 | 0  | 22  | 51 | 0  | IC 433   |
| 1532 | HME181 | 21 | 461 | 41931768 | 461 | 43160568 | 93  | 30 | 0  | 22  | 51 | 0  | IC 433   |
| 1533 | HME181 | 22 | 461 | 43201528 | 461 | 43652088 | 93  | 30 | 0  | 22  | 51 | 0  | IC 433   |
| 1534 | HME181 | 23 | 461 | 43693048 | 461 | 47911928 | 87  | 12 | 35 | -32 | 16 | 56 | PKS 0548 |
| 1535 | HME181 | 24 | 461 | 47952888 | 461 | 52499448 | 87  | 12 | 35 | -32 | 16 | 56 | PKS 0548 |
| 1536 | HME181 | 25 | 461 | 52540408 | 461 | 52786168 | 87  | 12 | 35 | -32 | 16 | 56 | PKS 0548 |
| 1537 | HME181 | 26 | 461 | 52827128 | 461 | 53769208 | 87  | 12 | 35 | -32 | 16 | 56 | PKS 0548 |
| 1538 | HME181 | 27 | 461 | 53810168 | 461 | 53974008 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1539 | HME181 | 28 | 461 | 54547448 | 461 | 55079928 | 282 | 35 | 28 | -8  | 45 | 54 | NGC 6712 |
| 1540 | HME181 | 29 | 461 | 55161848 | 461 | 57005048 | 282 | 35 | 28 | -8  | 45 | 54 | NGC 6712 |
| 1541 | HME181 | 30 | 461 | 57046008 | 461 | 58151928 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1542 | HME181 | 31 | 461 | 58192888 | 461 | 59749368 | 118 | 2  | 0  | 22  | 8  | 18 | UGEM     |
| 1543 | HME181 | 32 | 461 | 59790328 | 461 | 60527608 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1544 | HME181 | 33 | 461 | 60568568 | 461 | 62575608 | 282 | 35 | 28 | -8  | 45 | 54 | NGC 6712 |
| 1545 | HME181 | 34 | 461 | 62616568 | 461 | 63722488 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1546 | HME181 | 35 | 461 | 63763448 | 461 | 65442808 | 118 | 2  | 0  | 22  | 8  | 18 | UGEM     |
| 1547 | HME181 | 36 | 461 | 65483768 | 461 | 66221048 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1548 | HME181 | 37 | 461 | 66262008 | 461 | 68269049 | 282 | 35 | 28 | -8  | 45 | 54 | NGC 6712 |
| 1549 | HME181 | 38 | 461 | 68310009 | 461 | 68596729 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1550 | HME181 | 39 | 461 | 68637689 | 461 | 69415929 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1551 | HME181 | 40 | 461 | 69456889 | 461 | 71136249 | 118 | 2  | 0  | 22  | 8  | 18 | UGEM     |
| 1552 | HME181 | 41 | 461 | 71177209 | 461 | 71914489 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1553 | HME181 | 42 | 461 | 71955449 | 461 | 74003449 | 282 | 35 | 28 | -8  | 45 | 54 | NGC 6712 |
| 1554 | HME181 | 43 | 461 | 74044409 | 461 | 74781689 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1555 | HME181 | 44 | 461 | 74822649 | 461 | 75109369 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1556 | HME181 | 45 | 461 | 75150329 | 461 | 76829689 | 118 | 2  | 0  | 22  | 8  | 18 | UGEM     |
| 1557 | HME181 | 46 | 461 | 76870649 | 461 | 77607929 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1558 | HME177 | 1  | 461 | 77648889 | 461 | 79696889 | 282 | 35 | 28 | -8  | 45 | 54 | NGC 6712 |
| 1559 | HME177 | 2  | 461 | 79737849 | 461 | 80024569 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1560 | HME177 | 3  | 461 | 80065529 | 461 | 80802809 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1561 | HME177 | 4  | 461 | 80843769 | 462 | 423929   | 275 | 35 | 42 | -37 | 8  | 9  | U1822-37 |
| 1562 | HME177 | 5  | 462 | 464889   | 462 | 6526969  | 275 | 35 | 42 | -37 | 8  | 9  | U1822-37 |
| 1563 | HME177 | 6  | 462 | 6567929  | 462 | 9885689  | 275 | 35 | 42 | -37 | 8  | 9  | U1822-37 |
| 1564 | HME177 | 7  | 462 | 9926649  | 462 | 10704889 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1565 | HME177 | 8  | 462 | 10745849 | 462 | 12589049 | 93  | 30 | 0  | 22  | 45 | 0  | IC 443   |
| 1566 | HME177 | 9  | 462 | 12630009 | 462 | 13244409 | 93  | 30 | 0  | 22  | 45 | 0  | IC 443   |
| 1567 | HME177 | 10 | 462 | 13285369 | 462 | 14309369 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1568 | HME177 | 11 | 462 | 14350329 | 462 | 15947769 | 287 | 10 | 43 | 0   | 30 | 4  | AQL X-1  |
| 1569 | HME177 | 12 | 462 | 15988729 | 462 | 16644089 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1570 | HME177 | 13 | 462 | 16685049 | 462 | 18774009 | 93  | 30 | 0  | 22  | 45 | 0  | IC 443   |
| 1571 | HME177 | 14 | 462 | 18814969 | 462 | 19470329 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1572 | HME177 | 15 | 462 | 19511289 | 462 | 19879929 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1573 | HME177 | 16 | 462 | 19920889 | 462 | 21641209 | 287 | 10 | 43 | 0   | 30 | 4  | AQL X-1  |
| 1574 | HME177 | 17 | 462 | 21682169 | 462 | 22378489 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1575 | HME177 | 18 | 462 | 22419449 | 462 | 23484409 | 93  | 30 | 0  | 22  | 45 | 0  | IC 443   |
| 1576 | HME177 | 19 | 462 | 23525369 | 462 | 24508409 | 93  | 30 | 0  | 22  | 45 | 0  | IC 443   |
| 1577 | HME177 | 20 | 462 | 24549369 | 462 | 25163769 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1578 | HME177 | 21 | 462 | 25204729 | 462 | 27334649 | 287 | 10 | 43 | 0   | 30 | 4  | AQL X-1  |
| 1579 | HME177 | 22 | 462 | 27375609 | 462 | 28071929 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1580 | HME177 | 23 | 462 | 28112889 | 462 | 29546489 | 118 | 2  | 0  | 22  | 8  | 18 | UGEM     |
| 1581 | HME177 | 24 | 462 | 29587449 | 462 | 30447609 | 118 | 2  | 0  | 22  | 8  | 18 | UGEM     |
| 1582 | HME177 | 25 | 462 | 30488569 | 462 | 31143929 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1583 | HME177 | 26 | 462 | 31184889 | 462 | 33150969 | 275 | 42 | 6  | 0   | 2  | 24 | S1822-00 |
| 1584 | HME177 | 27 | 462 | 33191929 | 462 | 33847289 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1585 | HME177 | 28 | 462 | 33888249 | 462 | 35649529 | 93  | 42 | 0  | 22  | 45 | 0  | IC 443   |
| 1586 | HME177 | 29 | 462 | 35690489 | 462 | 36059129 | 93  | 42 | 0  | 22  | 45 | 0  | IC 443   |
| 1587 | HME177 | 30 | 462 | 36100089 | 462 | 36755449 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1588 | HME177 | 31 | 462 | 36796409 | 462 | 38762489 | 287 | 10 | 43 | 0   | 30 | 4  | AQL X-1  |
| 1589 | HME177 | 32 | 462 | 38803449 | 462 | 39131129 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1590 | HME177 | 33 | 462 | 39172089 | 462 | 40851449 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1591 | HME177 | 34 | 462 | 40892409 | 462 | 46954489 | 275 | 6  | 29 | -30 | 23 | 20 | NGC 6624 |
| 1592 | HME177 | 35 | 462 | 46995449 | 462 | 52811769 | 275 | 6  | 29 | -30 | 23 | 20 | NGC 6624 |
| 1593 | HME177 | 36 | 462 | 53549049 | 462 | 56457209 | 275 | 6  | 29 | -30 | 23 | 20 | NGC 6624 |
| 1594 | HME177 | 37 | 462 | 56498169 | 462 | 57235449 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1595 | HME177 | 38 | 462 | 57276409 | 462 | 58832890 | 93  | 20 | 0  | 22  | 50 | 0  | IC 443   |
| 1596 | HME177 | 39 | 462 | 58873850 | 462 | 59938810 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1597 | HME177 | 40 | 462 | 59979770 | 462 | 61495290 | 287 | 10 | 43 | 0   | 30 | 4  | AQL X-1  |
| 1598 | HME177 | 41 | 462 | 62232570 | 462 | 67639290 | 275 | 42 | 6  | 0   | 2  | 24 | S1822-00 |
| 1599 | HME183 | 1  | 462 | 67721210 | 462 | 68458490 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1600 | HME183 | 2  | 462 | 68499450 | 462 | 70260730 | 121 | 59 | 51 | 47  | 11 | 18 | GAM VEL  |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 1601 | HME183 | 3  | 462 | 70301690 | 462 | 70916090 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1602 | HME183 | 4  | 462 | 70957050 | 462 | 73127930 | 275 | 42 | 6  | 0   | 2  | 24 | S1822-00 |
| 1603 | HME183 | 5  | 462 | 73168890 | 462 | 73865210 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1604 | HME183 | 6  | 462 | 73906170 | 462 | 74029050 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1605 | HME183 | 7  | 462 | 74070010 | 462 | 75954170 | 121 | 59 | 51 | 47  | 11 | 18 | GAM VEL  |
| 1606 | HME183 | 8  | 462 | 75995130 | 462 | 76527610 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1607 | HME183 | 9  | 462 | 76568570 | 462 | 79845370 | 289 | 47 | 58 | 43  | 52 | 0  | A2319    |
| 1608 | HME183 | 10 | 462 | 79886330 | 462 | 85866490 | 289 | 47 | 58 | 43  | 52 | 0  | A2319    |
| 1609 | HME183 | 11 | 462 | 85907450 | 463 | 4668410  | 289 | 47 | 58 | 43  | 52 | 0  | A2319    |
| 1610 | HME183 | 12 | 463 | 4709370  | 463 | 4955130  | 289 | 47 | 58 | 43  | 52 | 0  | A2319    |
| 1611 | HME183 | 13 | 463 | 4996090  | 463 | 5610490  | 289 | 47 | 58 | 43  | 52 | 0  | A2319    |
| 1612 | HME183 | 14 | 463 | 5651450  | 463 | 8805370  | 289 | 47 | 58 | 43  | 52 | 0  | A2319    |
| 1613 | HME183 | 15 | 463 | 8846330  | 463 | 9092090  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1614 | HME183 | 16 | 464 | 65847292 | 464 | 66093052 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1615 | HME183 | 47 | 468 | 83849216 | 468 | 84217856 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1616 | HME183 | 48 | 468 | 84258816 | 468 | 86061057 | 80  | 17 | 15 | -72 | 0  | 7  | LMC X-2  |
| 1617 | HME183 | 49 | 468 | 86102017 | 469 | 4207617  | 80  | 17 | 15 | -72 | 0  | 7  | LMC X-2  |
| 1618 | HME182 | 1  | 469 | 4248577  | 469 | 4412417  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1619 | HME182 | 2  | 469 | 4453377  | 469 | 9573377  | 81  | 29 | 0  | -66 | 7  | 1  | LMC SNRA |
| 1620 | HME182 | 3  | 469 | 9655297  | 469 | 16536577 | 81  | 29 | 0  | -66 | 7  | 1  | LMC SNRA |
| 1621 | HME182 | 4  | 469 | 16577537 | 469 | 17601537 | 81  | 29 | 0  | -66 | 7  | 1  | LMC SNRA |
| 1622 | HME182 | 5  | 469 | 17765377 | 469 | 22639617 | 84  | 39 | 0  | -64 | 6  | 20 | LMC X-2  |
| 1623 | HME182 | 6  | 469 | 22680577 | 469 | 25670657 | 84  | 39 | 0  | -64 | 6  | 20 | LMC X-3  |
| 1624 | HME182 | 7  | 469 | 25834497 | 469 | 27964417 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1625 | HME182 | 8  | 469 | 28005377 | 469 | 33944577 | 83  | 14 | 30 | -66 | 24 | 54 | LMC X-4  |
| 1626 | HME182 | 9  | 469 | 33985537 | 469 | 37876737 | 83  | 14 | 30 | -66 | 24 | 54 | LMC X-4  |
| 1627 | HME182 | 10 | 469 | 37917697 | 469 | 38450177 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1628 | HME182 | 11 | 469 | 38491137 | 469 | 40047617 | 117 | 17 | 30 | 22  | 15 | 54 | UGEM     |
| 1629 | HME182 | 12 | 469 | 40088577 | 469 | 40252417 | 117 | 17 | 30 | 22  | 15 | 54 | UGEM     |
| 1630 | HME182 | 13 | 469 | 40293377 | 469 | 40866817 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1631 | HME182 | 14 | 469 | 40907777 | 469 | 41194497 | 299 | 6  | 0  | 35  | 3  | 20 | CYG X-3  |
| 1632 | HME182 | 15 | 469 | 41276417 | 469 | 41726977 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1633 | HME182 | 16 | 469 | 41849857 | 469 | 42259457 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1634 | HME182 | 17 | 469 | 42341377 | 469 | 42832897 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1635 | HME182 | 18 | 469 | 42955777 | 469 | 43365377 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1636 | HME182 | 19 | 469 | 43406337 | 469 | 43938817 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1637 | HME182 | 20 | 469 | 43979777 | 469 | 46560257 | 121 | 59 | 51 | 47  | 11 | 18 | GAM VEL  |
| 1638 | HME182 | 21 | 469 | 46601217 | 469 | 47420417 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1639 | HME182 | 22 | 469 | 47461377 | 469 | 48608257 | 279 | 22 | 20 | 4   | 59 | 20 | S1837+04 |
| 1640 | HME182 | 23 | 469 | 48649217 | 469 | 49058817 | 279 | 22 | 20 | 4   | 59 | 20 | S1837+04 |
| 1641 | HME182 | 24 | 469 | 49099777 | 469 | 49673217 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1642 | HME182 | 25 | 469 | 49714177 | 469 | 51885057 | 121 | 59 | 51 | 47  | 11 | 18 | GAM VEL  |
| 1643 | HME182 | 26 | 469 | 51926017 | 469 | 52745217 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1644 | HME182 | 27 | 469 | 52786177 | 469 | 54629377 | 279 | 22 | 20 | 4   | 59 | 20 | S1837+04 |
| 1645 | HME182 | 28 | 469 | 54793217 | 469 | 55407617 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1646 | HME182 | 29 | 469 | 55448577 | 469 | 57578497 | 121 | 59 | 51 | 47  | 11 | 18 | GAM VEL  |
| 1647 | HME182 | 30 | 469 | 57619457 | 469 | 58438657 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1648 | HME182 | 31 | 469 | 58479617 | 469 | 60445697 | 279 | 22 | 20 | 4   | 59 | 20 | S1837+04 |
| 1649 | HME182 | 32 | 469 | 60486657 | 469 | 61060097 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1650 | HME182 | 33 | 469 | 61101057 | 469 | 63271937 | 121 | 59 | 51 | 47  | 11 | 18 | GAM VEL  |
| 1651 | HME182 | 34 | 469 | 63312897 | 469 | 63886337 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1652 | HME182 | 35 | 469 | 63927297 | 469 | 66753537 | 81  | 19 | 45 | -66 | 1  | 33 | GO 7000  |
| 1653 | HME182 | 36 | 469 | 66794497 | 469 | 72856577 | 81  | 19 | 45 | -66 | 1  | 33 | GO 7000  |
| 1654 | HME182 | 37 | 469 | 72897537 | 469 | 77485058 | 81  | 19 | 45 | -66 | 1  | 33 | GO 7000  |
| 1655 | HME182 | 38 | 469 | 77526018 | 469 | 78017538 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1656 | HME182 | 39 | 469 | 78058498 | 469 | 78918658 | 117 | 17 | 30 | 22  | 15 | 54 | UGEM     |
| 1657 | HME182 | 40 | 469 | 78959618 | 469 | 80557058 | 117 | 17 | 30 | 22  | 15 | 54 | UGEM     |
| 1658 | HME184 | 1  | 469 | 80598018 | 469 | 81581058 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1659 | HME184 | 2  | 469 | 81622018 | 469 | 83219458 | 279 | 22 | 20 | 4   | 59 | 20 | S1837+04 |
| 1660 | HME184 | 3  | 469 | 83260418 | 469 | 83915778 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1661 | HME184 | 4  | 469 | 83956738 | 469 | 86004738 | 117 | 17 | 30 | 22  | 15 | 54 | UGEM     |
| 1662 | HME184 | 5  | 469 | 86045698 | 470 | 628738   | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1663 | HME184 | 6  | 470 | 669698   | 470 | 2512898  | 279 | 22 | 20 | 4   | 59 | 20 | S1837+04 |
| 1664 | HME184 | 7  | 470 | 2553858  | 470 | 3250178  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1665 | HME184 | 8  | 470 | 3291138  | 470 | 3414018  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1666 | HME184 | 9  | 470 | 3454978  | 470 | 5298178  | 117 | 17 | 30 | 22  | 15 | 54 | UGEM     |
| 1667 | HME184 | 10 | 470 | 5339138  | 470 | 6322178  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1668 | HME184 | 11 | 470 | 6363138  | 470 | 8206338  | 279 | 22 | 20 | 4   | 59 | 20 | S1837+04 |
| 1669 | HME184 | 12 | 470 | 8247298  | 470 | 8615938  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1670 | HME184 | 13 | 470 | 8656898  | 470 | 8861698  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1671 | HME184 | 14 | 470 | 8902658  | 470 | 11401218 | 121 | 59 | 51 | 47  | 11 | 18 | GAM VEL  |
| 1672 | HME184 | 15 | 470 | 11442178 | 470 | 12302338 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1673 | HME184 | 16 | 470 | 12343298 | 470 | 13940738 | 283 | 22 | 30 | 1   | 15 | 38 | W 44A    |
| 1674 | HME184 | 17 | 470 | 13981698 | 470 | 14596098 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1675 | HME184 | 18 | 470 | 14637058 | 470 | 15579138 | 115 | 33 | 54 | 28  | 8  | 55 | POLLUX   |
| 1676 | HME184 | 19 | 470 | 15620098 | 470 | 16971778 | 115 | 33 | 54 | 28  | 8  | 55 | POLLUX   |
| 1677 | HME184 | 20 | 470 | 17012738 | 470 | 17545218 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1678 | HME184 | 21 | 470 | 17586178 | 470 | 20822018 | 83  | 14 | 30 | -66 | 24 | 54 | LMC X-4  |
| 1679 | HME184 | 22 | 470 | 20862978 | 470 | 26884098 | 38  | 14 | 30 | -66 | 24 | 54 | LMC X-4  |
| 1680 | HME184 | 23 | 470 | 26925058 | 470 | 31266818 | 83  | 14 | 30 | -66 | 24 | 54 | LMC X-4  |

|      |        |    |     |          |     |          |     |    |    |     |    |    |           |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|-----------|
| 1681 | HME184 | 24 | 470 | 31307778 | 470 | 31840258 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1682 | HME184 | 25 | 470 | 31881218 | 470 | 32946178 | 117 | 17 | 30 | 22  | 15 | 54 | UGEM      |
| 1683 | HME184 | 26 | 470 | 32987138 | 470 | 34052098 | 117 | 17 | 30 | 22  | 15 | 54 | UGEM      |
| 1684 | HME184 | 27 | 470 | 34093058 | 470 | 35117058 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1685 | HME184 | 28 | 470 | 35158018 | 470 | 36714498 | 283 | 22 | 30 | 1   | 15 | 38 | W 44A     |
| 1686 | HME184 | 29 | 470 | 36755458 | 470 | 37451778 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1687 | HME184 | 30 | 470 | 37492738 | 470 | 39049218 | 115 | 33 | 54 | 28  | 8  | 55 | POLLUX    |
| 1688 | HME184 | 31 | 470 | 39090178 | 470 | 39745538 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1689 | HME184 | 32 | 470 | 39786498 | 470 | 40769538 | 283 | 22 | 30 | 1   | 15 | 38 | W 44A     |
| 1690 | HME184 | 33 | 470 | 40810498 | 470 | 42407938 | 283 | 22 | 30 | 1   | 15 | 38 | W 44A     |
| 1691 | HME184 | 34 | 470 | 42448898 | 470 | 43104258 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1692 | HME184 | 35 | 470 | 43145218 | 470 | 45193218 | 115 | 33 | 54 | 28  | 8  | 55 | POLLUX    |
| 1693 | HME184 | 36 | 470 | 45234178 | 470 | 46176258 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1694 | HME184 | 37 | 470 | 46217218 | 470 | 47568898 | 283 | 22 | 30 | 1   | 15 | 38 | W 44A     |
| 1695 | HME184 | 38 | 470 | 47609858 | 470 | 48101378 | 283 | 22 | 30 | 1   | 15 | 38 | W 44A     |
| 1696 | HME184 | 39 | 470 | 48142338 | 470 | 48838658 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1697 | HME184 | 40 | 470 | 48879618 | 470 | 50886658 | 115 | 33 | 54 | 28  | 8  | 55 | POLLUX    |
| 1698 | HME184 | 41 | 470 | 50927618 | 470 | 51869698 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1699 | HME184 | 42 | 470 | 51910658 | 470 | 53671938 | 283 | 22 | 30 | 1   | 15 | 38 | W 44A     |
| 1700 | HME184 | 43 | 470 | 53835778 | 470 | 54532098 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1701 | HME184 | 44 | 470 | 54573058 | 470 | 56825858 | 115 | 33 | 54 | 28  | 8  | 55 | POLLUX    |
| 1702 | HME184 | 45 | 470 | 56866818 | 470 | 57849858 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1703 | HME184 | 46 | 470 | 57890818 | 470 | 59488258 | 283 | 26 | 46 | 1   | 12 | 14 | W 44      |
| 1704 | HME184 | 47 | 470 | 59529218 | 470 | 59693058 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1705 | HME184 | 48 | 470 | 59734018 | 470 | 59856898 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1706 | HME184 | 49 | 470 | 59897858 | 470 | 64280578 | 281 | 25 | 16 | -2  | 28 | 37 | S1845-02  |
| 1707 | HME184 | 50 | 470 | 64321538 | 470 | 64935938 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1708 | HME184 | 51 | 470 | 64976898 | 470 | 65837058 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1709 | HME185 | 1  | 470 | 65878018 | 470 | 71858179 | 85  | 1  | 12 | -69 | 46 | 9  | LMC X-1   |
| 1710 | HME185 | 2  | 470 | 71899139 | 470 | 75790339 | 85  | 1  | 12 | -69 | 46 | 9  | LMC X-1   |
| 1711 | HME185 | 3  | 470 | 75831299 | 470 | 76486659 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1712 | HME185 | 4  | 470 | 76527619 | 470 | 77920259 | 299 | 6  | 0  | 35  | 3  | 20 | CYG X-1   |
| 1713 | HME185 | 5  | 470 | 77961219 | 470 | 80214019 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1714 | HME185 | 6  | 470 | 80254979 | 470 | 80377859 | 299 | 5  | 60 | 35  | 3  | 20 | CYG X-1   |
| 1715 | HME185 | 7  | 470 | 80418819 | 470 | 81278979 | 299 | 8  | 27 | 35  | 3  | 20 | CYG X-1   |
| 1716 | HME185 | 8  | 470 | 81401859 | 470 | 81811459 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1717 | HME185 | 9  | 470 | 81934339 | 470 | 82343939 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1718 | HME185 | 10 | 470 | 82384899 | 470 | 82753539 | 299 | 12 | 6  | 35  | 3  | 20 | CYG X-1   |
| 1719 | HME185 | 11 | 470 | 82794499 | 471 | 1719299  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1720 | HME185 | 12 | 471 | 1760259  | 471 | 2415619  | 117 | 17 | 30 | 22  | 15 | 54 | UGEM      |
| 1721 | HME185 | 13 | 471 | 2538499  | 471 | 4422659  | 117 | 17 | 30 | 22  | 15 | 54 | UGEM      |
| 1722 | HME185 | 14 | 471 | 4463619  | 471 | 5118979  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1723 | HME185 | 15 | 471 | 5159939  | 471 | 7166979  | 281 | 25 | 16 | -2  | 28 | 37 | S145-024  |
| 1724 | HME185 | 16 | 471 | 7207939  | 471 | 7617539  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1725 | HME185 | 17 | 471 | 7658499  | 471 | 8231939  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1726 | HME185 | 18 | 471 | 8272899  | 471 | 10075139 | 117 | 17 | 30 | 22  | 15 | 54 | UGEM      |
| 1727 | HME185 | 19 | 471 | 10116099 | 471 | 10812419 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1728 | HME185 | 20 | 471 | 10853379 | 471 | 12819459 | 281 | 25 | 16 | -2  | 28 | 37 | S1845-024 |
| 1729 | HME185 | 21 | 471 | 12860419 | 471 | 13884419 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1730 | HME185 | 22 | 471 | 13925379 | 471 | 14580739 | 117 | 17 | 30 | 22  | 15 | 54 | UGEM      |
| 1731 | HME185 | 23 | 471 | 14621699 | 471 | 15768579 | 117 | 17 | 30 | 22  | 15 | 54 | UGEM      |
| 1732 | HME185 | 24 | 471 | 15809539 | 471 | 16464899 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1733 | HME185 | 25 | 471 | 16505859 | 471 | 18799619 | 283 | 26 | 46 | 1   | 12 | 14 | W 44      |
| 1734 | HME185 | 26 | 471 | 18840579 | 471 | 19332099 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1735 | HME185 | 27 | 471 | 19373059 | 471 | 19823619 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1736 | HME185 | 28 | 471 | 19864579 | 471 | 25885699 | 252 | 45 | 14 | 82  | 7  | 21 | EP UMI    |
| 1737 | HME185 | 29 | 471 | 25926659 | 471 | 31947779 | 252 | 45 | 14 | 82  | 7  | 21 | EP UMI    |
| 1738 | HME185 | 30 | 471 | 31988739 | 471 | 32971779 | 252 | 45 | 14 | 82  | 7  | 21 | EP UMI    |
| 1739 | HME185 | 31 | 471 | 33012739 | 471 | 33668099 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1740 | HME185 | 32 | 471 | 33709059 | 471 | 35879939 | 283 | 26 | 46 | 1   | 12 | 14 | W 44      |
| 1741 | HME185 | 33 | 471 | 35920899 | 471 | 36944899 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1742 | HME185 | 34 | 471 | 36985859 | 471 | 38050819 | 117 | 17 | 30 | 22  | 15 | 54 | UGEM      |
| 1743 | HME185 | 35 | 471 | 38091779 | 471 | 38542339 | 117 | 17 | 30 | 22  | 15 | 54 | UGEM      |
| 1744 | HME185 | 36 | 471 | 38583299 | 471 | 39279619 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1745 | HME185 | 37 | 471 | 39320579 | 471 | 41327619 | 283 | 26 | 46 | 1   | 12 | 14 | W 44      |
| 1746 | HME185 | 38 | 471 | 41368579 | 471 | 42351619 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1747 | HME185 | 39 | 471 | 42392579 | 471 | 44235779 | 117 | 17 | 30 | 22  | 15 | 54 | UGEM      |
| 1748 | HME185 | 40 | 471 | 44276739 | 471 | 44973059 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1749 | HME185 | 41 | 471 | 45014019 | 471 | 46570499 | 287 | 10 | 43 | 0   | 30 | 7  | AGL X-1   |
| 1750 | HME185 | 42 | 471 | 46611459 | 471 | 47307779 | 287 | 10 | 43 | 0   | 30 | 7  | AGL X-1   |
| 1751 | HME185 | 43 | 471 | 47348739 | 471 | 48331779 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1752 | HME185 | 44 | 471 | 48372739 | 471 | 49970179 | 117 | 17 | 30 | 22  | 15 | 54 | UGEM      |
| 1753 | HME185 | 45 | 471 | 50011139 | 471 | 50707459 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1754 | HME185 | 46 | 471 | 50748419 | 471 | 52673539 | 287 | 10 | 43 | 0   | 30 | 4  | AGL X-1   |
| 1755 | HME185 | 47 | 471 | 52714499 | 471 | 53410819 | 287 | 10 | 43 | 0   | 30 | 4  | AGL X-1   |
| 1756 | HME185 | 48 | 471 | 53451779 | 471 | 53615619 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1757 | HME186 | 1  | 471 | 53656579 | 471 | 57547779 | 282 | 35 | 28 | -8  | 45 | 54 | NGC 6712  |
| 1758 | HME186 | 2  | 471 | 57588739 | 471 | 57957379 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW      |
| 1759 | HME186 | 3  | 471 | 57998339 | 471 | 58858499 | 299 | 6  | 0  | 35  | 3  | 20 | CYG X-1   |
| 1760 | HME186 | 4  | 471 | 58899459 | 471 | 59595779 | 299 | 6  | 0  | 35  | 3  | 20 | CYG X-1   |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 1761 | HME186 | 5  | 471 | 59636739 | 471 | 60046340 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1762 | HME186 | 6  | 471 | 60087300 | 471 | 64306180 | 282 | 35 | 28 | -8  | 45 | 54 | NGC 6712 |
| 1763 | HME186 | 7  | 471 | 64347140 | 471 | 64797700 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1764 | HME186 | 8  | 471 | 64838660 | 471 | 70859780 | 273 | 44 | 43 | 49  | 50 | 48 | AM HER   |
| 1765 | HME186 | 9  | 471 | 70900740 | 471 | 76143620 | 273 | 44 | 43 | 49  | 50 | 48 | AM HER   |
| 1766 | HME186 | 10 | 471 | 76184580 | 471 | 76307460 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1767 | HME186 | 11 | 477 | 83956747 | 477 | 84161547 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1768 | HME186 | 12 | 477 | 84202507 | 478 | 1325067  | 331 | 32 | 58 | -47 | 24 | 60 | NGC 7213 |
| 1769 | HME187 | 24 | 478 | 1366027  | 478 | 1488907  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1770 | HME187 | 25 | 478 | 1529867  | 478 | 1857547  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1771 | HME187 | 26 | 478 | 1898507  | 478 | 3741707  | 128 | 24 | 45 | -45 | 0  | 19 | VEL PUL  |
| 1772 | HME187 | 27 | 478 | 3782667  | 478 | 4192267  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1773 | HME187 | 28 | 478 | 4233227  | 478 | 6690827  | 18  | 56 | 5  | -23 | 43 | 54 | SMC X-1  |
| 1774 | HME187 | 29 | 478 | 6772747  | 478 | 12793867 | 18  | 56 | 5  | -23 | 43 | 54 | SMC X-1  |
| 1775 | HME187 | 30 | 478 | 12834827 | 478 | 18855947 | 18  | 56 | 5  | -23 | 43 | 54 | SMC X-1  |
| 1776 | HME187 | 31 | 478 | 18896907 | 478 | 20781067 | 18  | 56 | 5  | -73 | 43 | 54 | SMC X-1  |
| 1777 | HME187 | 32 | 478 | 20822027 | 478 | 21272587 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1778 | HME187 | 33 | 478 | 21313547 | 478 | 24385547 | 331 | 32 | 58 | -47 | 24 | 59 | NGC 7213 |
| 1779 | HME187 | 34 | 478 | 24426507 | 478 | 24918027 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1780 | HME187 | 35 | 478 | 24999947 | 478 | 26638347 | 128 | 44 | 45 | -45 | 0  | 19 | VEL PUL  |
| 1781 | HME187 | 36 | 478 | 26679307 | 478 | 27621387 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1782 | HME187 | 37 | 478 | 27662347 | 478 | 29464587 | 18  | 56 | 5  | -73 | 43 | 54 | SMC X-1  |
| 1783 | HME187 | 38 | 478 | 29505547 | 478 | 29710347 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1784 | HME187 | 39 | 478 | 29833227 | 478 | 30242827 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1785 | HME187 | 40 | 478 | 30283787 | 478 | 32249867 | 128 | 24 | 45 | -45 | 0  | 19 | VEL PUL  |
| 1786 | HME187 | 41 | 478 | 32290827 | 478 | 33273867 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1787 | HME187 | 42 | 478 | 33314827 | 478 | 35158027 | 299 | 15 | 41 | 11  | 34 | 14 | S1957+11 |
| 1788 | HME187 | 43 | 478 | 35198987 | 478 | 35936267 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1789 | HME187 | 44 | 478 | 35977227 | 478 | 37943307 | 128 | 24 | 45 | -45 | 0  | 19 | VEL PUL  |
| 1790 | HME187 | 45 | 478 | 37984267 | 478 | 38516747 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1791 | HME187 | 46 | 478 | 38598667 | 478 | 38967307 | 18  | 56 | 5  | -73 | 43 | 54 | SMC X-1  |
| 1792 | HME187 | 47 | 478 | 39008267 | 478 | 40851467 | 18  | 56 | 5  | 13  | 43 | 34 | SMC X-1  |
| 1793 | HME187 | 48 | 478 | 40892427 | 478 | 41629707 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1794 | HME306 | 36 | 478 | 41670667 | 478 | 43636747 | 128 | 24 | 45 | -45 | 0  | 19 | VEL PUL  |
| 1795 | HME306 | 37 | 478 | 43677707 | 478 | 44660747 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1796 | HME306 | 38 | 478 | 44701707 | 478 | 45725707 | 299 | 15 | 41 | 11  | 34 | 14 | S1957+11 |
| 1797 | HME306 | 39 | 478 | 45766667 | 478 | 46544907 | 299 | 15 | 41 | 11  | 34 | 14 | S1957+11 |
| 1798 | HME306 | 40 | 478 | 46585867 | 478 | 47323147 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1799 | HME306 | 41 | 478 | 47364107 | 478 | 49043467 | 125 | 37 | 30 | -42 | 56 | 0  | PUPA1675 |
| 1800 | HME306 | 42 | 478 | 49084427 | 478 | 49371147 | 125 | 37 | 30 | -42 | 56 | 0  | PUPA1675 |
| 1801 | HME306 | 43 | 478 | 49412107 | 478 | 49821707 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1802 | HME187 | 49 | 478 | 81483788 | 478 | 83449868 | 124 | 42 | 30 | -42 | 49 | 60 | PUPA3417 |
| 1803 | HME187 | 50 | 478 | 83490828 | 478 | 84473868 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1804 | HME187 | 51 | 478 | 84514828 | 478 | 86358028 | 18  | 56 | 5  | -73 | 43 | 54 | SMC X-3  |
| 1805 | HME187 | 52 | 478 | 86398988 | 479 | 449548   | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1806 | HME188 | 1  | 479 | 490508   | 479 | 736268   | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1807 | HME188 | 2  | 479 | 777228   | 479 | 2743308  | 13  | 56 | 5  | -73 | 43 | 54 | SMC X-3  |
| 1808 | HME188 | 3  | 479 | 2784268  | 479 | 3439628  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1809 | HME188 | 4  | 479 | 3480588  | 479 | 9051148  | 252 | 45 | 13 | 82  | 7  | 20 | EP UMI   |
| 1810 | HME188 | 5  | 479 | 9092108  | 479 | 14171148 | 252 | 45 | 13 | 82  | 7  | 20 | EP UMI   |
| 1811 | HME188 | 6  | 479 | 14212108 | 479 | 14457868 | 252 | 45 | 13 | 82  | 7  | 20 | EP UMI   |
| 1812 | HME188 | 7  | 479 | 14498828 | 479 | 15154188 | 252 | 45 | 13 | 82  | 7  | 20 | EP UMI   |
| 1813 | HME188 | 8  | 479 | 15195148 | 479 | 18553868 | 252 | 45 | 13 | 82  | 7  | 20 | EP UMI   |
| 1814 | HME188 | 9  | 479 | 18594828 | 479 | 19127308 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1815 | HME188 | 10 | 479 | 19168268 | 479 | 21339148 | 289 | 2  | 6  | -5  | 19 | 50 | S1915-05 |
| 1816 | HME188 | 11 | 479 | 21380108 | 479 | 22813708 | 289 | 2  | 6  | -5  | 19 | 50 | S1915-05 |
| 1817 | HME188 | 12 | 479 | 22895628 | 479 | 32398348 | 289 | 2  | 6  | -5  | 19 | 50 | S1915-05 |
| 1818 | HME188 | 13 | 479 | 32480268 | 479 | 34364428 | 289 | 2  | 6  | -5  | 19 | 50 | S1915-05 |
| 1819 | HME188 | 14 | 479 | 34405388 | 479 | 35060748 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1820 | HME188 | 15 | 479 | 35101708 | 479 | 36985868 | 125 | 37 | 30 | -42 | 55 | 59 | PUPA1675 |
| 1821 | HME188 | 16 | 479 | 37026828 | 479 | 38009868 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1822 | HME188 | 17 | 479 | 38050828 | 479 | 38583308 | 18  | 56 | 5  | -73 | 43 | 54 | SMC X-1  |
| 1823 | HME188 | 18 | 479 | 38624268 | 479 | 39853068 | 18  | 56 | 5  | -73 | 43 | 54 | SMC X-1  |
| 1824 | HME188 | 19 | 479 | 39894028 | 479 | 40631308 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1825 | HME188 | 20 | 479 | 40672268 | 479 | 42679308 | 125 | 15 | 0  | -42 | 44 | 59 | PUPA1672 |
| 1826 | HME188 | 21 | 479 | 42720268 | 479 | 43703308 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1827 | HME188 | 22 | 479 | 43744268 | 479 | 44727308 | 18  | 56 | 5  | -73 | 43 | 54 | SMC X-1  |
| 1828 | HME188 | 23 | 479 | 44768268 | 479 | 45546508 | 18  | 56 | 5  | -73 | 43 | 54 | SMC X-1  |
| 1829 | HME188 | 24 | 479 | 45587468 | 479 | 45997068 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1830 | HME188 | 25 | 479 | 46038028 | 479 | 50666508 | 273 | 44 | 43 | 49  | 50 | 48 | AM HER   |
| 1831 | HME188 | 26 | 479 | 50707468 | 479 | 56073228 | 273 | 44 | 43 | 49  | 50 | 48 | AM HER   |
| 1832 | HME188 | 27 | 479 | 56114188 | 479 | 56318988 | 273 | 44 | 43 | 49  | 50 | 48 | AM HER   |
| 1833 | HME188 | 28 | 479 | 56359948 | 479 | 56728588 | 273 | 44 | 43 | 49  | 50 | 48 | AM HER   |
| 1834 | HME188 | 29 | 479 | 56769548 | 479 | 62626828 | 273 | 44 | 43 | 49  | 50 | 48 | AM HER   |
| 1835 | HME188 | 30 | 479 | 62667788 | 479 | 62790668 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1836 | HME188 | 31 | 479 | 62831628 | 479 | 63364108 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1837 | HME188 | 32 | 479 | 63405068 | 479 | 65453069 | 114 | 10 | 15 | 5   | 21 | 16 | PROCYON  |
| 1838 | HME188 | 33 | 479 | 65494029 | 479 | 66436109 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1839 | HME188 | 34 | 479 | 66477069 | 479 | 67623949 | 307 | 39 | 23 | 40  | 47 | 12 | CYG X-3  |
| 1840 | HME188 | 35 | 479 | 67664909 | 479 | 68238349 | 307 | 39 | 23 | 40  | 47 | 12 | CYG X-3  |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 1841 | HME188 | 36 | 479 | 68279309 | 479 | 68934669 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1842 | HME188 | 37 | 479 | 68975629 | 479 | 71023629 | 114 | 10 | 15 | 5   | 21 | 16 | PROCYON  |
| 1843 | HME188 | 38 | 479 | 71064589 | 479 | 71965709 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1844 | HME188 | 39 | 479 | 72006669 | 479 | 72948749 | 307 | 39 | 23 | 40  | 47 | 12 | CYG X-3  |
| 1845 | HME188 | 40 | 479 | 72989709 | 479 | 73931789 | 307 | 39 | 23 | 40  | 47 | 12 | CYG X-3  |
| 1846 | HME188 | 41 | 479 | 73972749 | 479 | 74669069 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1847 | HME189 | 1  | 479 | 74710029 | 479 | 76717069 | 114 | 10 | 15 | 5   | 21 | 16 | PROCYON  |
| 1848 | HME189 | 2  | 479 | 76758029 | 479 | 77659149 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1849 | HME189 | 3  | 479 | 77700109 | 479 | 78928909 | 367 | 39 | 23 | 40  | 47 | 12 | CYG X-3  |
| 1850 | HME189 | 4  | 479 | 78969869 | 479 | 79625229 | 307 | 39 | 23 | 40  | 47 | 12 | CYG X-3  |
| 1851 | HME189 | 5  | 479 | 79666189 | 479 | 80362509 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1852 | HME189 | 6  | 479 | 80403469 | 479 | 80854029 | 114 | 10 | 15 | 5   | 21 | 16 | PROCYON  |
| 1853 | HME189 | 7  | 479 | 80894989 | 479 | 82410509 | 114 | 10 | 15 | 5   | 21 | 16 | PROCYON  |
| 1854 | HME189 | 8  | 479 | 82451469 | 479 | 83352589 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1855 | HME189 | 9  | 479 | 83393549 | 479 | 85318669 | 307 | 39 | 23 | 40  | 47 | 1  | CYG X-3  |
| 1856 | HME189 | 10 | 479 | 85359629 | 479 | 85851149 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1857 | HME189 | 11 | 479 | 85892109 | 479 | 86137869 | 125 | 15 | 0  | -42 | 44 | 59 | PUPAL672 |
| 1858 | HME189 | 12 | 479 | 86178829 | 480 | 2031629  | 125 | 15 | 0  | -42 | 44 | 59 | PUPAL672 |
| 1859 | HME186 | 13 | 480 | 2072589  | 480 | 2646029  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1860 | HME186 | 14 | 480 | 2686989  | 480 | 4694029  | 309 | 40 | 46 | -32 | 16 | 56 | AT MIC   |
| 1861 | HME186 | 15 | 480 | 4734989  | 480 | 10756109 | 309 | 40 | 46 | -32 | 16 | 56 | AT MIC   |
| 1862 | HME186 | 16 | 480 | 10797069 | 480 | 12189709 | 309 | 40 | 46 | -32 | 16 | 56 | AT MIC   |
| 1863 | HME186 | 17 | 480 | 12230669 | 480 | 12435469 | 309 | 40 | 46 | -32 | 16 | 56 | AT MIC   |
| 1864 | HME186 | 18 | 480 | 12476429 | 480 | 16859149 | 309 | 40 | 46 | -32 | 16 | 56 | AT MIC   |
| 1865 | HME186 | 19 | 480 | 16900109 | 480 | 22183949 | 309 | 40 | 46 | -32 | 16 | 56 | AT MIC   |
| 1866 | HME186 | 20 | 480 | 22224909 | 480 | 22921229 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1867 | HME186 | 21 | 480 | 23003149 | 480 | 24805389 | 125 | 15 | 0  | -42 | 45 | 0  | PUPAL672 |
| 1868 | HME186 | 22 | 480 | 24846349 | 480 | 25665549 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1869 | HME186 | 23 | 480 | 25706509 | 480 | 27508749 | 310 | 21 | 29 | -10 | 54 | 17 | MK 509   |
| 1870 | HME186 | 24 | 480 | 27549709 | 480 | 28164109 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1871 | HME186 | 25 | 480 | 28205069 | 480 | 30498829 | 125 | 36 | 15 | -42 | 47 | 0  | PUPA0001 |
| 1872 | HME186 | 26 | 480 | 30539789 | 480 | 31399949 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1873 | HME186 | 27 | 480 | 31522829 | 480 | 33202189 | 310 | 21 | 29 | -10 | 54 | 17 | MK 509   |
| 1874 | HME186 | 28 | 480 | 33243149 | 480 | 33570829 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1875 | HME186 | 29 | 480 | 33611789 | 480 | 37584909 | 287 | 20 | 17 | 4   | 53 | 53 | SS 433   |
| 1876 | HME186 | 30 | 480 | 37625869 | 480 | 43687949 | 287 | 20 | 17 | 4   | 53 | 53 | SS 433   |
| 1877 | HME186 | 31 | 480 | 43728909 | 480 | 44793869 | 287 | 20 | 17 | 4   | 53 | 53 | SS 433   |
| 1878 | HME186 | 32 | 480 | 44834829 | 480 | 45367309 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1879 | HME186 | 33 | 480 | 45408269 | 480 | 49668109 | 13  | 13 | 38 | -73 | 56 | 58 | SMC X-2  |
| 1880 | HME187 | 1  | 480 | 49709069 | 480 | 55525390 | 13  | 13 | 38 | -73 | 56 | 58 | SMC X-2  |
| 1881 | HME187 | 2  | 480 | 55566350 | 480 | 55689230 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1882 | HME187 | 3  | 480 | 55730190 | 480 | 56139790 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1883 | HME187 | 4  | 480 | 56180750 | 480 | 59129870 | 114 | 54 | 30 | 3   | 48 | 0  | YZ CMI   |
| 1884 | HME187 | 5  | 480 | 59170830 | 480 | 59785230 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1885 | HME187 | 6  | 480 | 59826190 | 480 | 61628430 | 307 | 39 | 23 | 40  | 47 | 13 | CYG X-3  |
| 1886 | HME187 | 7  | 480 | 61669390 | 480 | 61833230 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1887 | HME187 | 8  | 480 | 61874190 | 480 | 62693390 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1888 | HME187 | 9  | 480 | 62734350 | 480 | 64495630 | 123 | 12 | 45 | -18 | 54 | 0  | VV PUP   |
| 1889 | HME187 | 10 | 480 | 64536590 | 480 | 65314830 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1890 | HME187 | 11 | 480 | 65355790 | 480 | 66625550 | 307 | 39 | 23 | 40  | 47 | 13 | CYG X-3  |
| 1891 | HME187 | 12 | 480 | 66666510 | 480 | 67280910 | 307 | 39 | 23 | 40  | 47 | 13 | CYG X-3  |
| 1892 | HME187 | 13 | 480 | 67321870 | 480 | 68345870 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1893 | HME187 | 14 | 480 | 68386830 | 480 | 70189070 | 123 | 12 | 45 | -18 | 53 | 60 | VV PUP   |
| 1894 | HME187 | 15 | 480 | 70230030 | 480 | 71008270 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1895 | HME187 | 16 | 480 | 71049230 | 480 | 72687630 | 307 | 39 | 23 | 40  | 47 | 13 | CYG X-3  |
| 1896 | HME187 | 17 | 480 | 72728590 | 480 | 72974350 | 307 | 39 | 23 | 40  | 44 | 47 | CYG X-3  |
| 1897 | HME187 | 18 | 480 | 73015310 | 480 | 74039310 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1898 | HME187 | 19 | 480 | 74080270 | 480 | 75882510 | 123 | 12 | 45 | -18 | 54 | 0  | VV PUP   |
| 1899 | HME187 | 20 | 480 | 75923470 | 480 | 76701710 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1900 | HME187 | 21 | 480 | 76742670 | 480 | 78667790 | 307 | 39 | 23 | 40  | 47 | 13 | CYG X-3  |
| 1901 | HME187 | 22 | 480 | 84852750 | 480 | 85385230 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1902 | HME187 | 23 | 480 | 85426190 | 481 | 828430   | 123 | 12 | 45 | -18 | 54 | 0  | VV PUP   |
| 1903 | HME190 | 1  | 481 | 869390   | 481 | 1360910  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1904 | HME190 | 2  | 481 | 1401870  | 481 | 3654670  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1905 | HME190 | 3  | 481 | 3736590  | 481 | 9757710  | 12  | 35 | 18 | -72 | 42 | 8  | SMC X-3  |
| 1906 | HME190 | 4  | 481 | 9798670  | 481 | 15819790 | 12  | 35 | 18 | -72 | 42 | 8  | SMC X-3  |
| 1907 | HME190 | 5  | 481 | 15860750 | 481 | 18400270 | 12  | 35 | 18 | -72 | 42 | 8  | SMC X-3  |
| 1908 | HME190 | 6  | 481 | 18441230 | 481 | 19096590 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1909 | HME190 | 7  | 481 | 19137550 | 481 | 20653070 | 299 | 7  | 9  | 35  | 3  | 53 | CYG X-1  |
| 1910 | HME190 | 8  | 481 | 20694030 | 481 | 21758990 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1911 | HME190 | 9  | 481 | 21799950 | 481 | 23602190 | 123 | 12 | 45 | -18 | 53 | 59 | VV PUP   |
| 1912 | HME190 | 10 | 481 | 23643150 | 481 | 24339470 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1913 | HME190 | 11 | 481 | 24380430 | 481 | 26346510 | 299 | 7  | 9  | 35  | 3  | 53 | CYG X-1  |
| 1914 | HME190 | 12 | 481 | 26387470 | 481 | 27411470 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1915 | HME190 | 13 | 481 | 27452430 | 481 | 29295630 | 123 | 12 | 45 | -18 | 53 | 59 | VV PUP   |
| 1916 | HME190 | 14 | 481 | 29336590 | 481 | 30073870 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1917 | HME190 | 15 | 481 | 30114830 | 481 | 30401550 | 299 | 7  | 9  | 35  | 3  | 5  | CYG X-1  |
| 1918 | HME190 | 16 | 481 | 30483470 | 481 | 32039950 | 299 | 7  | 9  | 35  | 3  | 53 | CYG X-1  |
| 1919 | HME190 | 17 | 481 | 32080910 | 481 | 33104910 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1920 | HME190 | 18 | 481 | 33145870 | 481 | 34989070 | 123 | 12 | 45 | -18 | 53 | 59 | VV PUP   |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 1921 | HME190 | 19 | 481 | 35030030 | 481 | 35767310 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1922 | HME190 | 20 | 481 | 35808270 | 481 | 38470670 | 123 | 12 | 45 | -18 | 53 | 59 | CYG X-1  |
| 1923 | HME190 | 21 | 481 | 38511630 | 481 | 38675470 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1924 | HME190 | 22 | 481 | 38716430 | 481 | 42566670 | 299 | 25 | 58 | 40  | 35 | 45 | CYG A    |
| 1925 | HME190 | 23 | 481 | 42648590 | 481 | 48628751 | 299 | 25 | 58 | 40  | 35 | 45 | CYG A    |
| 1926 | HME190 | 24 | 481 | 48669711 | 481 | 51864591 | 299 | 25 | 58 | 40  | 35 | 46 | CYG A    |
| 1927 | HME190 | 25 | 481 | 51905551 | 481 | 52151311 | 299 | 25 | 58 | 40  | 35 | 46 | CYG A    |
| 1928 | HME190 | 26 | 481 | 52192271 | 481 | 54526991 | 114 | 54 | 30 | 3   | 48 | 0  | YZ CMI   |
| 1929 | HME190 | 27 | 481 | 55346191 | 481 | 55550991 | 299 | 25 | 58 | 40  | 35 | 45 | CYG A    |
| 1930 | HME190 | 28 | 481 | 55591951 | 481 | 56247311 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1931 | HME190 | 29 | 481 | 56288271 | 481 | 60752911 | 145 | 54 | 30 | 3   | 48 | 0  | YZ CMI   |
| 1932 | HME190 | 30 | 481 | 61326351 | 481 | 62596111 | 114 | 54 | 30 | 3   | 48 | 0  | YZ CMI   |
| 1933 | HME190 | 31 | 481 | 62637071 | 481 | 63087631 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1934 | HME190 | 32 | 481 | 63128591 | 481 | 65627151 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1935 | HME190 | 33 | 481 | 65668111 | 481 | 69354511 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1936 | HME190 | 34 | 481 | 69395471 | 481 | 70091791 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1937 | HME190 | 35 | 481 | 70132751 | 481 | 71689231 | 310 | 21 | 29 | -10 | 54 | 17 | MK 509   |
| 1938 | HME190 | 36 | 481 | 72098831 | 481 | 72754191 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1939 | HME190 | 37 | 481 | 72795151 | 481 | 74884111 | 124 | 56 | 15 | -42 | 37 | 60 | PUPA1674 |
| 1940 | HME190 | 38 | 481 | 74925071 | 481 | 75785231 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1941 | HME190 | 39 | 481 | 75826191 | 481 | 77751311 | 310 | 21 | 29 | -10 | 54 | 17 | MK 509   |
| 1942 | HME190 | 40 | 481 | 77792271 | 481 | 78406671 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1943 | HME190 | 41 | 481 | 78447631 | 481 | 80577551 | 124 | 56 | 12 | -42 | 37 | 60 | PUPA1674 |
| 1944 | HME189 | 13 | 481 | 80618511 | 481 | 81478671 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1945 | HME189 | 14 | 481 | 81519631 | 481 | 83444751 | 310 | 21 | 28 | -10 | 54 | 16 | MK 509   |
| 1946 | HME189 | 15 | 481 | 83485711 | 481 | 84100111 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1947 | HME189 | 16 | 481 | 84141071 | 481 | 86270991 | 124 | 56 | 15 | -42 | 39 | 59 | PUPA1674 |
| 1948 | HME191 | 1  | 493 | 86086685 | 494 | 178205   | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1949 | HME191 | 2  | 494 | 219165   | 494 | 2512925  | 307 | 38 | 13 | 40  | 47 | 6  | CYG X-3  |
| 1950 | HME191 | 3  | 494 | 2553885  | 494 | 3700765  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1951 | HME191 | 4  | 494 | 3741725  | 494 | 4929565  | 125 | 22 | 30 | -42 | 44 | 59 | PUPA     |
| 1952 | HME191 | 5  | 494 | 4970525  | 494 | 5339165  | 125 | 22 | 30 | -42 | 44 | 59 | PUPA     |
| 1953 | HME191 | 6  | 494 | 5380125  | 494 | 5748765  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1954 | HME191 | 7  | 494 | 5830685  | 494 | 5953565  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1955 | HME191 | 8  | 494 | 5994525  | 494 | 6199325  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1956 | HME191 | 9  | 494 | 6281245  | 494 | 8042525  | 307 | 38 | 13 | 40  | 47 | 6  | CYG X-3  |
| 1957 | HME191 | 10 | 494 | 8083485  | 494 | 9230365  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1958 | HME191 | 11 | 494 | 9271325  | 494 | 11032605 | 125 | 22 | 30 | -42 | 44 | 59 | PUPA     |
| 1959 | HME191 | 12 | 494 | 11155485 | 494 | 11933725 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1960 | HME191 | 13 | 494 | 11974685 | 494 | 13735965 | 307 | 38 | 13 | 40  | 47 | 6  | CYG X-3  |
| 1961 | HME191 | 14 | 494 | 13776925 | 494 | 14923805 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1962 | HME191 | 15 | 494 | 14964765 | 494 | 16726045 | 125 | 22 | 30 | -42 | 44 | 59 | PUPA     |
| 1963 | HME191 | 16 | 494 | 16767005 | 494 | 17176605 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1964 | HME191 | 17 | 494 | 17217565 | 494 | 17504285 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1965 | HME191 | 18 | 494 | 17545245 | 494 | 20002845 | 321 | 53 | 28 | 11  | 56 | 51 | NGC 7078 |
| 1966 | HME191 | 19 | 494 | 20043805 | 494 | 20985885 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1967 | HME191 | 20 | 494 | 21026845 | 494 | 22624285 | 125 | 22 | 30 | -42 | 44 | 59 | PUPA     |
| 1968 | HME191 | 21 | 494 | 22665245 | 494 | 23156765 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1969 | HME191 | 22 | 494 | 23320605 | 494 | 29300765 | 18  | 56 | 4  | -73 | 42 | 53 | SMC X-1  |
| 1970 | HME191 | 23 | 494 | 29341725 | 494 | 31430685 | 18  | 56 | 4  | -73 | 42 | 53 | SMC X-1  |
| 1971 | HME191 | 24 | 494 | 31471645 | 494 | 32004125 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1972 | HME191 | 25 | 494 | 32045085 | 494 | 33806365 | 135 | 3  | 18 | -40 | 21 | 24 | S0900-40 |
| 1973 | HME191 | 26 | 494 | 33847325 | 494 | 34625565 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1974 | HME191 | 27 | 494 | 34666525 | 494 | 35321885 | 299 | 7  | 9  | 35  | 3  | 53 | CYG X-1  |
| 1975 | HME191 | 28 | 494 | 35362845 | 494 | 36509725 | 299 | 7  | 10 | 35  | 3  | 54 | CYG X-1  |
| 1976 | HME191 | 29 | 494 | 36550685 | 494 | 37287965 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1977 | HME191 | 30 | 494 | 37328925 | 494 | 39499805 | 135 | 3  | 18 | -40 | 21 | 25 | S0900-40 |
| 1978 | HME191 | 31 | 494 | 39540765 | 494 | 40319005 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1979 | HME191 | 32 | 494 | 40359965 | 494 | 42203165 | 299 | 7  | 9  | -40 | 21 | 24 | CYG X-1  |
| 1980 | HME191 | 33 | 494 | 42244125 | 494 | 43022365 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1981 | HME191 | 34 | 494 | 43063325 | 494 | 45234205 | 135 | 3  | 18 | -40 | 21 | 25 | S0900-40 |
| 1982 | HME191 | 35 | 494 | 45357085 | 494 | 46012445 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1983 | HME191 | 36 | 494 | 46053405 | 494 | 47937565 | 299 | 7  | 9  | 35  | 3  | 53 | CYG X-1  |
| 1984 | HME191 | 37 | 494 | 47978525 | 494 | 48715805 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1985 | HME191 | 38 | 494 | 48756765 | 494 | 50927645 | 135 | 3  | 18 | -40 | 21 | 24 | S0900-40 |
| 1986 | HME191 | 39 | 494 | 50968605 | 494 | 51419165 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1987 | HME191 | 40 | 494 | 51460125 | 494 | 51705885 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1988 | HME191 | 41 | 494 | 51746845 | 494 | 53631005 | 299 | 7  | 9  | 35  | 3  | 53 | CYG X-1  |
| 1989 | HME191 | 42 | 494 | 53671965 | 494 | 54409245 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1990 | HME191 | 43 | 494 | 54450205 | 494 | 56621085 | 135 | 3  | 18 | -40 | 21 | 24 | S0900-40 |
| 1991 | HME191 | 44 | 494 | 56662045 | 494 | 57440285 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1992 | HME191 | 45 | 494 | 57481245 | 494 | 58341405 | 299 | 7  | 9  | 35  | 3  | 53 | CYG X-1  |
| 1993 | HME191 | 46 | 494 | 58382365 | 494 | 59324445 | 299 | 7  | 9  | 35  | 3  | 53 | CYG X-1  |
| 1994 | HME191 | 47 | 494 | 59365405 | 494 | 60143645 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1995 | HME191 | 48 | 494 | 60184605 | 494 | 62314525 | 135 | 3  | 18 | -40 | 21 | 24 | S0900-40 |
| 1996 | HME191 | 49 | 494 | 62355485 | 494 | 63133725 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1997 | HME191 | 50 | 494 | 63174685 | 494 | 63584285 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 1998 | HME191 | 51 | 494 | 63625245 | 494 | 65017885 | 299 | 7  | 9  | 35  | 3  | 53 | CYG X-1  |
| 1999 | HME191 | 52 | 494 | 65058845 | 494 | 65837085 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2000 | HME191 | 53 | 494 | 65878045 | 494 | 67434526 | 135 | 3  | 18 | -40 | 21 | 25 | S0900-40 |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 2001 | HME191 | 54 | 494 | 67475486 | 494 | 68171806 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2002 | HME191 | 55 | 494 | 68212766 | 494 | 69687326 | 273 | 44 | 43 | 49  | 50 | 48 | AM HER   |
| 2003 | HME192 | 1  | 494 | 69728286 | 494 | 75708446 | 273 | 44 | 43 | 49  | 50 | 48 | AM HER   |
| 2004 | HME192 | 2  | 494 | 75749406 | 494 | 77264926 | 273 | 44 | 43 | 49  | 50 | 48 | AM HER   |
| 2005 | HME192 | 3  | 494 | 77305886 | 494 | 77551646 | 273 | 44 | 43 | 49  | 50 | 48 | AM HER   |
| 2006 | HME192 | 4  | 494 | 77592606 | 494 | 77838366 | 273 | 44 | 43 | 49  | 50 | 48 | AM HER   |
| 2007 | HME192 | 5  | 494 | 77879326 | 494 | 81852446 | 273 | 44 | 43 | 49  | 50 | 48 | AM HER   |
| 2008 | HME192 | 6  | 494 | 81893406 | 495 | 121886   | 273 | 44 | 43 | 49  | 50 | 48 | AM HER   |
| 2009 | HME192 | 7  | 495 | 162846   | 495 | 1063966  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2010 | HME192 | 8  | 495 | 1104926  | 495 | 3931166  | 125 | 15 | 0  | -42 | 37 | 29 | PUPA     |
| 2011 | HME192 | 9  | 495 | 3972126  | 495 | 4750366  | 125 | 15 | 0  | -42 | 37 | 29 | PUPA     |
| 2012 | HME192 | 10 | 495 | 4791326  | 495 | 5733406  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2013 | HME192 | 11 | 495 | 5774366  | 495 | 6511646  | 321 | 53 | 28 | 11  | 56 | 51 | NGC 7078 |
| 2014 | HME192 | 12 | 495 | 6675486  | 495 | 7371806  | 321 | 53 | 28 | 11  | 56 | 51 | NGC 7078 |
| 2015 | HME192 | 13 | 495 | 7412766  | 495 | 8191006  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2016 | HME192 | 14 | 495 | 8231966  | 495 | 10075166 | 125 | 15 | 0  | -42 | 37 | 29 | PUPA     |
| 2017 | HME192 | 15 | 495 | 10198046 | 495 | 11140126 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2018 | HME192 | 16 | 495 | 11181086 | 495 | 13065246 | 321 | 53 | 28 | 11  | 56 | 51 | NGC 7078 |
| 2019 | HME192 | 17 | 495 | 13106206 | 495 | 13884446 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2020 | HME192 | 18 | 495 | 13925406 | 495 | 16137246 | 125 | 36 | 15 | -42 | 46 | 59 | PUPA     |
| 2021 | HME192 | 19 | 495 | 16178206 | 495 | 16628766 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2022 | HME192 | 20 | 495 | 16669726 | 495 | 19332126 | 20  | 27 | 45 | -59 | 3  | 59 | FAIR 9   |
| 2023 | HME192 | 21 | 495 | 19373086 | 495 | 22158366 | 20  | 27 | 45 | -59 | 3  | 59 | FAIR 9   |
| 2024 | HME192 | 22 | 495 | 22199326 | 495 | 28220446 | 20  | 27 | 45 | -59 | 3  | 59 | FAIR 9   |
| 2025 | HME192 | 23 | 495 | 28261406 | 495 | 28507166 | 20  | 27 | 45 | -59 | 3  | 59 | FAIR 9   |
| 2026 | HME192 | 24 | 495 | 28548126 | 495 | 34282526 | 20  | 27 | 45 | -59 | 3  | 59 | FAIR 9   |
| 2027 | HME192 | 25 | 495 | 34323486 | 495 | 36289566 | 20  | 27 | 45 | -59 | 3  | 59 | FAIR 9   |
| 2028 | HME192 | 26 | 495 | 36330526 | 495 | 37108766 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2029 | HME192 | 27 | 495 | 37149726 | 495 | 39115806 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2030 | HME192 | 28 | 495 | 39156766 | 495 | 40631326 | 165 | 25 | 7  | 38  | 28 | 43 | MKN 421  |
| 2031 | HME192 | 29 | 495 | 40672286 | 495 | 44686366 | 165 | 25 | 7  | 38  | 28 | 43 | MKN 421  |
| 2032 | HME192 | 30 | 495 | 44727326 | 495 | 44973086 | 165 | 25 | 7  | 38  | 28 | 43 | MKN 421  |
| 2033 | HME192 | 31 | 495 | 45014046 | 495 | 45177886 | 165 | 25 | 7  | 38  | 28 | 42 | MKN 421  |
| 2034 | HME192 | 32 | 495 | 45218846 | 495 | 51239966 | 165 | 25 | 7  | 38  | 28 | 43 | MKN 421  |
| 2035 | HME192 | 33 | 495 | 51280926 | 495 | 55172127 | 165 | 25 | 7  | 38  | 28 | 43 | MKN 421  |
| 2036 | HME192 | 34 | 495 | 55213087 | 495 | 55417887 | 165 | 25 | 7  | 38  | 28 | 43 | MKN 421  |
| 2037 | HME192 | 35 | 495 | 55499807 | 495 | 55991327 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2038 | HME192 | 36 | 495 | 56032287 | 495 | 57261087 | 307 | 38 | 13 | 40  | 47 | 5  | CYG X-3  |
| 2039 | HME192 | 37 | 495 | 57302047 | 495 | 58448927 | 307 | 38 | 13 | 40  | 47 | 5  | CYG X-3  |
| 2040 | HME192 | 38 | 495 | 58489887 | 495 | 59022367 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2041 | HME193 | 1  | 495 | 59063327 | 495 | 62544927 | 165 | 30 | 0  | 45  | 21 | 0  | AN UMA   |
| 2042 | HME193 | 2  | 495 | 62585887 | 495 | 68607007 | 165 | 30 | 0  | 45  | 21 | 0  | AN UMA   |
| 2043 | HME193 | 3  | 495 | 68647967 | 495 | 68893727 | 165 | 30 | 0  | 45  | 21 | 0  | AN UMA   |
| 2044 | HME193 | 4  | 495 | 68934687 | 495 | 69180447 | 165 | 30 | 0  | 45  | 21 | 0  | AN UMA   |
| 2045 | HME193 | 5  | 495 | 69221407 | 495 | 74669087 | 165 | 30 | 0  | 45  | 21 | 0  | AN UMA   |
| 2046 | HME193 | 6  | 495 | 74710047 | 495 | 77986847 | 165 | 30 | 0  | 45  | 21 | 0  | AN UMA   |
| 2047 | HME193 | 7  | 495 | 78027807 | 495 | 78273567 | 165 | 30 | 0  | 45  | 21 | 0  | AN UMA   |
| 2048 | HME193 | 8  | 495 | 78314527 | 495 | 80239647 | 165 | 30 | 0  | 45  | 21 | 0  | AN UMA   |
| 2049 | HME193 | 9  | 495 | 80280607 | 495 | 80813087 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2050 | HME193 | 10 | 495 | 80854047 | 495 | 83229727 | 125 | 30 | 0  | -42 | 44 | 59 | PUPA1673 |
| 2051 | HME193 | 11 | 495 | 83270687 | 495 | 84458527 | 125 | 30 | 0  | -42 | 44 | 59 | PUPA1673 |
| 2052 | HME193 | 12 | 495 | 84499487 | 495 | 85441567 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2053 | HME193 | 13 | 495 | 85482527 | 496 | 679967   | 321 | 53 | 28 | 11  | 56 | 51 | NGC 7078 |
| 2054 | HME193 | 14 | 496 | 720927   | 496 | 1458207  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2055 | HME193 | 15 | 496 | 1540127  | 496 | 2932767  | 125 | 30 | 0  | -42 | 44 | 59 | PUPA     |
| 2056 | HME193 | 16 | 496 | 2973727  | 496 | 3465247  | 125 | 30 | 0  | -42 | 44 | 59 | PUPA     |
| 2057 | HME193 | 17 | 496 | 3506207  | 496 | 4448287  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2058 | HME193 | 18 | 496 | 4489247  | 496 | 6373407  | 321 | 53 | 28 | 11  | 56 | 51 | NGC 7078 |
| 2059 | HME193 | 19 | 496 | 6414367  | 496 | 6823967  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2060 | HME193 | 20 | 496 | 6864927  | 496 | 8994847  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2061 | HME193 | 21 | 496 | 9035807  | 496 | 12066847 | 307 | 38 | 13 | 40  | 47 | 5  | CYG X-1  |
| 2062 | HME193 | 22 | 496 | 12107807 | 496 | 12886047 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2063 | HME193 | 23 | 496 | 12927007 | 496 | 14770207 | 123 | 12 | 45 | -18 | 53 | 59 | VV PUP   |
| 2064 | HME193 | 24 | 496 | 14811167 | 496 | 15138847 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2065 | HME193 | 25 | 496 | 15179807 | 496 | 15466527 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2066 | HME193 | 26 | 496 | 15507487 | 496 | 17514527 | 307 | 28 | 13 | 40  | 47 | 5  | CYG X-1  |
| 2067 | HME193 | 27 | 496 | 17555487 | 496 | 18620447 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2068 | HME193 | 28 | 496 | 18661407 | 496 | 20463647 | 123 | 12 | 45 | -18 | 53 | 59 | VV PUP   |
| 2069 | HME305 | 58 | 496 | 18620447 | 496 | 20463647 | 123 | 12 | 45 | -18 | 53 | 59 | VV PUP   |
| 2070 | HME193 | 29 | 496 | 20504607 | 496 | 21078047 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2071 | HME193 | 30 | 496 | 21119007 | 496 | 27181087 | 18  | 56 | 4  | -73 | 42 | 54 | SMC X-1  |
| 2072 | HME193 | 31 | 496 | 27222047 | 496 | 31604767 | 18  | 56 | 4  | -73 | 42 | 54 | SMC X-1  |
| 2073 | HME193 | 32 | 496 | 31645727 | 496 | 32342047 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2074 | HME193 | 33 | 496 | 32383007 | 496 | 33243167 | 308 | 14 | 28 | 18  | 49 | 6  | EG 288   |
| 2075 | HME193 | 34 | 496 | 33284127 | 496 | 34881567 | 308 | 14 | 28 | 18  | 49 | 6  | EG 288   |
| 2076 | HME193 | 35 | 496 | 34922527 | 496 | 35946527 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2077 | HME193 | 36 | 496 | 35987487 | 496 | 37216287 | 124 | 56 | 15 | -42 | 37 | 59 | PUPA     |
| 2078 | HME193 | 37 | 496 | 37257247 | 496 | 37584927 | 124 | 56 | 15 | -42 | 37 | 59 | PUPA     |
| 2079 | HME193 | 38 | 496 | 37625887 | 496 | 38404127 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2080 | HME193 | 39 | 496 | 38445087 | 496 | 40329247 | 308 | 14 | 28 | 18  | 49 | 6  | EG 288   |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 2081 | HME193 | 40 | 496 | 40370207 | 496 | 41394207 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2082 | HME193 | 41 | 496 | 41435167 | 496 | 43278367 | 124 | 56 | 15 | -42 | 37 | 59 | PUPA     |
| 2083 | HME193 | 42 | 496 | 43319327 | 496 | 44056608 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2084 | HME193 | 43 | 496 | 44097568 | 496 | 44220448 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2085 | HME193 | 44 | 496 | 44261408 | 496 | 46022688 | 308 | 14 | 28 | 18  | 49 | 6  | EG 288   |
| 2086 | HME193 | 45 | 496 | 46063648 | 496 | 47087648 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2087 | HME194 | 1  | 496 | 47128608 | 496 | 48971808 | 124 | 56 | 15 | -42 | 37 | 29 | PUPA     |
| 2088 | HME194 | 2  | 496 | 49012768 | 496 | 49791008 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2089 | HME194 | 3  | 496 | 49831968 | 496 | 50200608 | 307 | 38 | 13 | 40  | 47 | 5  | CYG X-1  |
| 2090 | HME194 | 4  | 496 | 50241568 | 496 | 51920928 | 307 | 38 | 13 | 40  | 47 | 5  | CYG X-1  |
| 2091 | HME194 | 5  | 496 | 51961888 | 496 | 52985888 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2092 | HME194 | 6  | 496 | 53026848 | 496 | 54624288 | 123 | 12 | 45 | -18 | 53 | 59 | VV PUP   |
| 2093 | HME194 | 7  | 496 | 54665248 | 496 | 55402528 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2094 | HME194 | 8  | 496 | 55443488 | 496 | 56262688 | 310 | 21 | 28 | -10 | 54 | 16 | MK 509   |
| 2095 | HME194 | 9  | 496 | 56303648 | 496 | 57860128 | 310 | 21 | 28 | -10 | 54 | 16 | MK 509   |
| 2096 | HME194 | 10 | 496 | 57901088 | 496 | 58515488 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2097 | HME194 | 11 | 496 | 58556448 | 496 | 61546528 | 163 | 9  | 6  | 60  | 44 | 11 | AL052+60 |
| 2098 | HME194 | 12 | 496 | 61587488 | 496 | 67567648 | 163 | 9  | 6  | 60  | 44 | 11 | AL052+60 |
| 2099 | HME194 | 13 | 496 | 67608608 | 496 | 68632608 | 163 | 9  | 6  | 60  | 44 | 11 | AL052+60 |
| 2100 | HME194 | 14 | 496 | 68673568 | 496 | 68878368 | 163 | 9  | 6  | 60  | 44 | 11 | AL052+60 |
| 2101 | HME194 | 15 | 496 | 68919328 | 496 | 73629728 | 163 | 9  | 6  | 60  | 44 | 11 | AL052+60 |
| 2102 | HME194 | 16 | 496 | 73670688 | 496 | 77971488 | 163 | 9  | 6  | 60  | 44 | 11 | AL052+60 |
| 2103 | HME194 | 17 | 496 | 78012448 | 496 | 78258208 | 163 | 9  | 6  | 60  | 44 | 11 | AL052+60 |
| 2104 | HME194 | 18 | 496 | 78299168 | 496 | 79241248 | 163 | 9  | 6  | 60  | 44 | 11 | AL052+60 |
| 2105 | HME194 | 19 | 496 | 79282208 | 496 | 79773728 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2106 | HME194 | 20 | 496 | 79814688 | 496 | 82149408 | 123 | 12 | 45 | -18 | 53 | 59 | VV PUP   |
| 2107 | HME194 | 21 | 496 | 82190368 | 496 | 83460128 | 123 | 12 | 45 | -18 | 53 | 59 | VV PUP   |
| 2108 | HME194 | 22 | 496 | 83501088 | 496 | 84484128 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2109 | HME194 | 23 | 496 | 84525088 | 496 | 86122528 | 310 | 21 | 28 | -10 | 54 | 16 | MK 509   |
| 2110 | HME194 | 24 | 496 | 86163488 | 496 | 86286368 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2111 | HME194 | 25 | 498 | 75769890 | 498 | 76425250 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2112 | HME194 | 26 | 498 | 76466210 | 498 | 78186530 | 299 | 7  | 10 | 25  | 3  | 54 | CYG X-1  |
| 2113 | HME194 | 27 | 498 | 78227490 | 498 | 79415330 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2114 | HME194 | 28 | 498 | 79456290 | 498 | 80070690 | 135 | 3  | 18 | -40 | 21 | 25 | 40900-40 |
| 2115 | HME194 | 29 | 498 | 81586210 | 498 | 81954850 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2116 | HME194 | 30 | 498 | 81995810 | 498 | 83757090 | 299 | 7  | 10 | 25  | 3  | 54 | CYG X-1  |
| 2117 | HME194 | 31 | 498 | 83798050 | 498 | 84944930 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2118 | HME194 | 32 | 498 | 84985890 | 499 | 306210   | 135 | 3  | 18 | -40 | 21 | 25 | 40900-40 |
| 2119 | HME194 | 33 | 499 | 347170   | 499 | 1248290  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2120 | HME194 | 34 | 499 | 1289250  | 499 | 3050530  | 299 | 7  | 10 | 25  | 3  | 54 | CYG X-1  |
| 2121 | HME194 | 35 | 499 | 3091490  | 499 | 4238370  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2122 | HME194 | 36 | 499 | 4279330  | 499 | 5917730  | 135 | 3  | 18 | -40 | 21 | 25 | 40900-40 |
| 2123 | HME194 | 37 | 499 | 6040610  | 499 | 6695970  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2124 | HME194 | 38 | 499 | 6736930  | 499 | 11979811 | 331 | 32 | 58 | -47 | 24 | 59 | NGC 7213 |
| 2125 | HME194 | 39 | 499 | 12061731 | 499 | 17017891 | 331 | 32 | 58 | -47 | 24 | 60 | NGC 7213 |
| 2126 | HME194 | 40 | 499 | 17058851 | 499 | 17304611 | 331 | 32 | 58 | -47 | 24 | 60 | NGC 7213 |
| 2127 | HME194 | 41 | 499 | 17345571 | 499 | 18000931 | 331 | 32 | 58 | -47 | 24 | 60 | NGC 7213 |
| 2128 | HME194 | 42 | 499 | 18041891 | 499 | 21646371 | 331 | 32 | 58 | -47 | 24 | 60 | NGC 7213 |
| 2129 | HME194 | 43 | 499 | 21687331 | 499 | 22301731 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2130 | HME194 | 44 | 499 | 22342691 | 499 | 24063011 | 273 | 44 | 43 | 49  | 50 | 48 | AM HER   |
| 2131 | HME195 | 1  | 499 | 24103971 | 499 | 28896291 | 273 | 44 | 43 | 49  | 50 | 48 | AM HER   |
| 2132 | HME195 | 2  | 499 | 28937251 | 499 | 30575651 | 273 | 44 | 43 | 49  | 50 | 48 | AM HER   |
| 2133 | HME195 | 3  | 499 | 30616611 | 499 | 32664611 | 273 | 44 | 43 | 49  | 50 | 48 | AM HER   |
| 2134 | HME195 | 4  | 499 | 32705571 | 499 | 32951331 | 273 | 44 | 43 | 49  | 50 | 48 | AM HER   |
| 2135 | HME195 | 5  | 499 | 32992291 | 499 | 34098211 | 273 | 44 | 43 | 49  | 50 | 48 | AM HER   |
| 2136 | HME195 | 6  | 499 | 34139171 | 499 | 37047331 | 273 | 44 | 43 | 49  | 50 | 48 | AM HER   |
| 2137 | HME195 | 7  | 499 | 37088291 | 499 | 37866531 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2138 | HME195 | 8  | 499 | 37907491 | 499 | 40651811 | 135 | 3  | 18 | -40 | 21 | 25 | 40900-40 |
| 2139 | HME195 | 9  | 499 | 40692771 | 499 | 41020451 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2140 | HME195 | 10 | 499 | 41061411 | 499 | 41593891 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2141 | HME195 | 11 | 499 | 41634851 | 499 | 43232291 | 310 | 21 | 29 | -10 | 54 | 17 | MK 509   |
| 2142 | HME195 | 12 | 499 | 43273251 | 499 | 43928611 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2143 | HME195 | 13 | 499 | 43969571 | 499 | 46017571 | 135 | 3  | 18 | -40 | 21 | 25 | 40900-40 |
| 2144 | HME195 | 14 | 499 | 46058531 | 499 | 46959651 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2145 | HME195 | 15 | 499 | 47123491 | 499 | 48925731 | 310 | 21 | 29 | -10 | 54 | 17 | MK 509   |
| 2146 | HME195 | 16 | 499 | 48966691 | 499 | 49540131 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2147 | HME195 | 17 | 499 | 49581091 | 499 | 52366371 | 285 | 36 | 44 | 81  | 2  | 39 | BCKGRD   |
| 2148 | HME195 | 18 | 499 | 52407331 | 499 | 58387491 | 285 | 36 | 44 | 81  | 2  | 39 | BCKGRD   |
| 2149 | HME195 | 19 | 499 | 58428451 | 499 | 61746211 | 285 | 36 | 44 | 81  | 2  | 39 | BCKGRD   |
| 2150 | HME195 | 20 | 499 | 61787171 | 499 | 62032931 | 285 | 36 | 44 | 81  | 2  | 39 | BCKGRD   |
| 2151 | HME195 | 21 | 499 | 62073891 | 499 | 64490531 | 285 | 36 | 44 | 81  | 2  | 39 | BCKGRD   |
| 2152 | HME195 | 22 | 499 | 64531491 | 499 | 65555491 | 285 | 36 | 44 | 81  | 2  | 39 | BCKGRD   |
| 2153 | HME195 | 23 | 499 | 65596451 | 499 | 66251811 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2154 | HME195 | 24 | 499 | 66292771 | 499 | 69119011 | 135 | 3  | 18 | -40 | 21 | 25 | 40900-40 |
| 2155 | HME195 | 25 | 499 | 69159971 | 499 | 70061091 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2156 | HME195 | 26 | 499 | 70102051 | 499 | 70552611 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2157 | HME195 | 27 | 499 | 70593571 | 499 | 71699491 | 310 | 21 | 29 | -10 | 54 | 17 | MK 509   |
| 2158 | HME195 | 28 | 499 | 71740451 | 499 | 72027171 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2159 | HME195 | 29 | 499 | 72109091 | 499 | 72436771 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2160 | HME195 | 30 | 499 | 72477731 | 499 | 74484771 | 135 | 3  | 18 | -40 | 21 | 25 | 40900-40 |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |      |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|------|
| 2161 | HME195 | 31 | 499 | 74525731 | 499 | 75426851 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 2162 | HME195 | 32 | 499 | 75467811 | 499 | 77392931 | 310 | 21 | 29 | -10 | 54 | 17 | MK 509   |      |
| 2163 | HME195 | 33 | 499 | 77433891 | 499 | 78130211 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2164 | HME195 | 34 | 499 | 78171171 | 499 | 79154211 | 135 | 3  | 18 | -40 | 21 | 25 | 40900-40 |      |
| 2165 | HME195 | 35 | 499 | 79195171 | 499 | 80178211 | 135 | 3  | 18 | -40 | 21 | 25 | 40900-40 |      |
| 2166 | HME195 | 36 | 499 | 80219171 | 499 | 81079331 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2167 | HME195 | 37 | 499 | 81120291 | 499 | 83045411 | 310 | 21 | 29 | -10 | 54 | 17 | MK 509   |      |
| 2168 | HME195 | 38 | 499 | 83086371 | 499 | 83782691 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2169 | HME195 | 39 | 499 | 83823651 | 499 | 85257251 | 135 | 3  | 18 | -40 | 21 | 25 | 40900-40 |      |
| 2170 | HME195 | 40 | 499 | 85298211 | 499 | 85871652 | 135 | 3  | 18 | -40 | 21 | 25 | 40900-40 |      |
| 2171 | HME195 | 41 | 499 | 85912612 | 500 | 372772   | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2172 | HME195 | 42 | 500 | 413732   | 500 | 2338852  | 310 | 21 | 29 | -10 | 54 | 17 | MK 509   |      |
| 2173 | HME195 | 43 | 500 | 2379812  | 500 | 3076132  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2174 | HME195 | 44 | 500 | 3117092  | 500 | 4919332  | 135 | 3  | 18 | -40 | 21 | 25 | 40900-40 |      |
| 2175 | HME195 | 45 | 500 | 4960292  | 500 | 5779492  | 135 | 3  | 18 | -40 | 21 | 25 | 40900-40 |      |
| 2176 | HME195 | 46 | 500 | 5820452  | 500 | 6189092  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2177 | HME195 | 47 | 500 | 6230052  | 500 | 10899492 | 136 | 36 | 36 | -9  | 28 | 48 | A754     |      |
| 2178 | HME196 | 1  | 500 | 10940452 | 500 | 16797732 | 136 | 36 | 36 | -9  | 28 | 48 | A754     |      |
| 2179 | HME196 | 2  | 500 | 16838692 | 500 | 16961572 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2180 | HME196 | 3  | 500 | 17125412 | 500 | 21303332 | 123 | 12 | 45 | -18 | 53 | 60 | VV PUP   |      |
| 2181 | HME196 | 4  | 500 | 21344292 | 500 | 21999652 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2182 | HME196 | 5  | 500 | 22040612 | 500 | 23023652 | 273 | 44 | 43 | 49  | 50 | 48 | AM HER   |      |
| 2183 | HME196 | 6  | 500 | 23064612 | 500 | 27856932 | 273 | 44 | 43 | 49  | 50 | 48 | AM HER   |      |
| 2184 | HME196 | 7  | 500 | 27897892 | 500 | 31993892 | 273 | 44 | 43 | 49  | 50 | 48 | AM HER   |      |
| 2185 | HME196 | 8  | 500 | 32034852 | 500 | 32280612 | 273 | 44 | 43 | 49  | 50 | 48 | AM HER   |      |
| 2186 | HME196 | 9  | 500 | 32321572 | 500 | 33919012 | 273 | 44 | 43 | 49  | 50 | 48 | AM HER   |      |
| 2187 | HME196 | 10 | 500 | 33959972 | 500 | 36048932 | 273 | 44 | 43 | 49  | 50 | 48 | AM HER   |      |
| 2188 | HME196 | 11 | 500 | 36089892 | 500 | 36663332 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2189 | HME196 | 12 | 500 | 36704292 | 500 | 39120932 | 328 | 59 | 28 | -30 | 27 | 54 | PK 52155 |      |
| 2190 | HME196 | 13 | 500 | 39161892 | 500 | 46084132 | 328 | 59 | 28 | -30 | 27 | 54 | PK 52155 |      |
| 2191 | HME196 | 14 | 500 | 46125092 | 500 | 51286052 | 328 | 59 | 28 | -30 | 27 | 54 | PK 52155 |      |
| 2192 | HME196 | 15 | 500 | 51327012 | 500 | 53538852 | 328 | 59 | 28 | -30 | 27 | 54 | PK 52155 |      |
| 2193 | HME196 | 16 | 500 | 53579812 | 500 | 53825572 | 328 | 59 | 28 | -30 | 27 | 54 | PK 52155 |      |
| 2194 | HME196 | 17 | 500 | 53866532 | 500 | 54603812 | 328 | 59 | 28 | -30 | 27 | 54 | PK 52155 |      |
| 2195 | HME196 | 18 | 500 | 54644772 | 500 | 55218212 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2196 | HME196 | 19 | 500 | 55259172 | 500 | 57348132 | 285 | 36 | 44 | 81  | 2  | 39 | BCKGRD   |      |
| 2197 | HME196 | 20 | 500 | 57389092 | 500 | 63410212 | 285 | 36 | 44 | 81  | 2  | 39 | BCKGRD   |      |
| 2198 | HME196 | 21 | 500 | 63451172 | 500 | 64475172 | 285 | 36 | 44 | 81  | 2  | 39 | BCKGRD   |      |
| 2199 | HME196 | 22 | 500 | 64516132 | 500 | 65253412 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2200 | HME196 | 23 | 500 | 65294372 | 500 | 66973732 | 123 | 12 | 45 | -18 | 53 | 60 | VV PUP   |      |
| 2201 | HME196 | 24 | 500 | 67014692 | 500 | 67424292 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2202 | HME196 | 25 | 500 | 67465252 | 500 | 69021732 | 155 | 11 | 45 | 20  | 7  | 8  | NGC 3227 |      |
| 2203 | HME196 | 26 | 500 | 69062692 | 500 | 69513252 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2204 | HME196 | 27 | 500 | 69595172 | 500 | 71929892 | 123 | 12 | 45 | -18 | 53 | 60 | VV PUP   |      |
| 2205 | HME196 | 28 | 500 | 71970852 | 500 | 72216612 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2206 | HME196 | 29 | 500 | 72380452 | 500 | 74715172 | 155 | 11 | 45 | 20  | 7  | 8  | NGC 3227 |      |
| 2207 | HME196 | 30 | 500 | 74756132 | 500 | 75165733 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2208 | HME196 | 31 | 500 | 75206693 | 500 | 77623333 | 123 | 12 | 45 | -18 | 53 | 60 | VV PUP   |      |
| 2209 | HME196 | 32 | 500 | 77664293 | 500 | 78032933 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2210 | HME196 | 33 | 500 | 78196773 | 500 | 80408613 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2211 | HME196 | 34 | 500 | 80449573 | 500 | 80859173 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2212 | HME196 | 35 | 500 | 80900133 | 500 | 84135973 | 140 | 30 | 0  | -31 | 41 | 60 | 0922-317 |      |
| 2213 | HME323 | 1  | 511 | 2538544  | 511 | 2989104  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2214 | HME323 | 2  | 511 | 3030064  | 511 | 4258864  | 120 | 0  | 44 | -39 | 43 | 12 | ZETA PUP |      |
| 2215 | HME323 | 3  | 511 | 4299824  | 511 | 6388784  | 120 | 0  | 44 | -39 | 43 | 12 | ZETA PUP |      |
| 2216 | HME323 | 4  | 511 | 6429744  | 511 | 6962224  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2217 | HME323 | 5  | 511 | 7003184  | 511 | 9378864  | 348 | 54 | 36 | -42 | 38 | 42 | NGC 7582 |      |
| 2218 | HME323 | 6  | 511 | 9419824  | 511 | 10239024 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2219 | HME323 | 7  | 511 | 10279984 | 511 | 11836464 | 136 | 36 | 0  | -9  | 27 | 0  | A 754    |      |
| 2220 | HME323 | 8  | 511 | 11877424 | 511 | 12532784 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2221 | HME323 | 9  | 511 | 12573744 | 511 | 12696624 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2222 | HME323 | 10 | 511 | 12737584 | 511 | 14662704 | 348 | 54 | 36 | -42 | 38 | 42 | NGC 7582 |      |
| 2223 | HME323 | 11 | 511 | 14703664 | 511 | 15522864 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2224 | HME323 | 12 | 511 | 15563824 | 511 | 17529904 | 136 | 36 | 0  | -9  | 27 | 0  | A 754    |      |
| 2225 | HME323 | 13 | 511 | 17570864 | 511 | 18226224 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2226 | HME323 | 14 | 511 | 18267184 | 511 | 20356144 | 348 | 54 | 36 | -42 | 38 | 42 | NGC 7582 |      |
| 2227 | HME323 | 15 | 511 | 20397104 | 511 | 21216304 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2228 | HME323 | 16 | 511 | 21257264 | 511 | 22363184 | 136 | 36 | 0  | -9  | 27 | 0  | A 754    |      |
| 2229 | HME323 | 17 | 511 | 22404144 | 511 | 23223344 | 136 | 36 | 0  | -9  | 27 | 0  | A 754    |      |
| 2230 | HME323 | 18 | 511 | 23264304 | 511 | 23878704 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2231 | HME323 | 19 | 511 | 23919664 | 511 | 26049584 | 348 | 54 | 36 | -42 | 38 | 42 | NGC 7582 |      |
| 2232 | HME323 | 20 | 511 | 26090544 | 511 | 26909744 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2233 | HME323 | 21 | 511 | 26950704 | 511 | 28466224 | 136 | 36 | 0  | -9  | 27 | 0  | A 754    |      |
| 2234 | HME323 | 22 | 511 | 28507185 | 511 | 28916785 | 136 | 36 | 0  | -9  | 27 | 0  | A 754    |      |
| 2235 | HME323 | 23 | 511 | 28957745 | 511 | 29367345 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2236 | HME323 | 24 | 511 | 29408305 | 511 | 39730225 | 139 | 43 | 54 | -54 | 59 | 32 | 0918-549 |      |
| 2237 | HME323 | 25 | 511 | 39771185 | 511 | 45464625 | 139 | 43 | 54 | -54 | 59 | 33 | 0918-549 |      |
| 2238 | HME323 | 26 | 511 | 45505585 | 511 | 45833265 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2239 | HME323 | 27 | 511 | 45874225 | 511 | 46324785 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2240 | HME323 | 28 | 511 | 46365745 | 511 | 54311985 | 331 | 39 | 43 | 45  | 29 | 46 | AR LAC   |      |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |      |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|------|
| 2241 | HME323 | 29 | 511 | 54352945 | 511 | 60415025 | 331 | 39 | 43 | 45  | 29 | 46 | AR       | LAC  |
| 2242 | HME323 | 30 | 511 | 60455985 | 511 | 61520945 | 331 | 39 | 43 | 45  | 29 | 46 | AR       | LAC  |
| 2243 | HME323 | 31 | 511 | 61602865 | 511 | 62790705 | 331 | 39 | 43 | 45  | 29 | 46 | AR       | LAC  |
| 2244 | HME323 | 32 | 511 | 62831665 | 511 | 63077425 | 331 | 39 | 43 | 45  | 29 | 46 | AR       | LAC  |
| 2245 | HME323 | 33 | 511 | 63118385 | 511 | 66559025 | 331 | 39 | 43 | 45  | 29 | 46 | AR       | LAC  |
| 2246 | HME323 | 34 | 511 | 66681905 | 511 | 67214385 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2247 | HME323 | 35 | 511 | 67255345 | 511 | 69262385 | 182 | 0  | 15 | 39  | 41 | 2  | NGC      | 4151 |
| 2248 | HME323 | 36 | 511 | 69303345 | 511 | 69999665 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2249 | HME323 | 37 | 511 | 70040625 | 511 | 72539185 | 328 | 59 | 28 | -30 | 27 | 54 | 2151-    | 316  |
| 2250 | HME323 | 38 | 511 | 72621105 | 511 | 78560305 | 328 | 59 | 28 | -30 | 27 | 54 | 2151-    | 316  |
| 2251 | HME197 | 1  | 511 | 78601265 | 511 | 83434545 | 328 | 59 | 28 | -30 | 27 | 54 | 2151-    | 316  |
| 2252 | HME197 | 2  | 511 | 83475505 | 511 | 84089905 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2253 | HME197 | 3  | 511 | 84130865 | 511 | 84704305 | 120 | 0  | 43 | -39 | 43 | 11 | ZETA     | PUP  |
| 2254 | HME197 | 4  | 511 | 84745265 | 512 | 3178545  | 120 | 0  | 43 | -39 | 43 | 11 | ZETA     | PUP  |
| 2255 | HME197 | 5  | 512 | 3219505  | 512 | 8544305  | 328 | 59 | 28 | -30 | 27 | 54 | 2151-    | 316  |
| 2256 | HME197 | 6  | 512 | 8585265  | 512 | 8831025  | 328 | 59 | 28 | -30 | 27 | 54 | 2151-    | 316  |
| 2257 | HME197 | 7  | 512 | 8871985  | 512 | 8994865  | 328 | 59 | 28 | -30 | 27 | 54 | 2151-    | 316  |
| 2258 | HME197 | 8  | 512 | 9035825  | 512 | 9363505  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2259 | HME197 | 9  | 512 | 9404465  | 512 | 11206705 | 136 | 36 | 0  | -9  | 26 | 59 | A754     |      |
| 2260 | HME197 | 10 | 512 | 11247665 | 512 | 11616305 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2261 | HME197 | 11 | 512 | 11657265 | 512 | 12025905 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2262 | HME197 | 12 | 512 | 12066865 | 512 | 13664305 | 348 | 54 | 35 | -42 | 38 | 41 | NGC      | 7582 |
| 2263 | HME197 | 13 | 512 | 13705265 | 512 | 14442545 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2264 | HME197 | 14 | 512 | 14483505 | 512 | 16777266 | 154 | 14 | 0  | 20  | 7  | 21 | AO       | LEO  |
| 2265 | HME197 | 15 | 512 | 16818226 | 512 | 17473586 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2266 | HME197 | 16 | 512 | 17514546 | 512 | 19439666 | 348 | 54 | 35 | -42 | 38 | 41 | NGC      | 7582 |
| 2267 | HME197 | 17 | 512 | 19480626 | 512 | 20176946 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2268 | HME197 | 18 | 512 | 20217906 | 512 | 21282866 | 154 | 14 | 0  | 20  | 7  | 21 | AO       | LEO  |
| 2269 | HME197 | 19 | 512 | 21323826 | 512 | 22224946 | 154 | 14 | 0  | 20  | 7  | 21 | AO       | LEO  |
| 2270 | HME197 | 20 | 512 | 22265906 | 512 | 22921266 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2271 | HME197 | 21 | 512 | 22962226 | 512 | 25133106 | 348 | 54 | 35 | -42 | 38 | 41 | NGC      | 7582 |
| 2272 | HME197 | 22 | 512 | 25174066 | 512 | 25706546 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2273 | HME197 | 23 | 512 | 25747506 | 512 | 32587826 | 325 | 10 | 58 | 43  | 21 | 17 | SS       | C7G  |
| 2274 | HME197 | 24 | 512 | 32628786 | 512 | 38649906 | 325 | 10 | 58 | 43  | 21 | 17 | SS       | C7G  |
| 2275 | HME197 | 25 | 512 | 38690866 | 512 | 38977586 | 325 | 10 | 58 | 43  | 21 | 17 | SS       | C7G  |
| 2276 | HME197 | 26 | 512 | 39018546 | 512 | 39264306 | 325 | 10 | 58 | 43  | 21 | 17 | SS       | C7G  |
| 2277 | HME197 | 27 | 512 | 39305266 | 512 | 44752946 | 325 | 10 | 58 | 43  | 21 | 17 | SS       | C7G  |
| 2278 | HME197 | 28 | 512 | 44834866 | 512 | 46186546 | 325 | 10 | 58 | 43  | 21 | 17 | SS       | C7G  |
| 2279 | HME197 | 29 | 512 | 46227506 | 512 | 46473266 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2280 | HME197 | 30 | 512 | 46514226 | 512 | 53272626 | 331 | 39 | 43 | 45  | 29 | 46 | AR       | LAC  |
| 2281 | HME197 | 31 | 512 | 53313586 | 512 | 59129906 | 331 | 39 | 43 | 45  | 29 | 46 | AR       | LAC  |
| 2282 | HME197 | 32 | 512 | 59170866 | 512 | 59375666 | 331 | 39 | 43 | 45  | 29 | 46 | AR       | LAC  |
| 2283 | HME197 | 33 | 512 | 59457586 | 512 | 65560626 | 331 | 39 | 43 | 45  | 29 | 46 | AR       | LAC  |
| 2284 | HME197 | 34 | 512 | 65601586 | 512 | 65847346 | 331 | 39 | 43 | 45  | 29 | 46 | AR       | LAC  |
| 2285 | HME197 | 35 | 512 | 65888306 | 512 | 66461746 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2286 | HME197 | 36 | 512 | 66502706 | 512 | 68141106 | 182 | 0  | 15 | 39  | 41 | 2  | NGC      | 4151 |
| 2287 | HME198 | 1  | 512 | 68182066 | 512 | 68673586 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2288 | HME198 | 2  | 512 | 68714546 | 512 | 71499826 | 329 | 52 | 13 | 43  | 38 | 52 | RTLAC    |      |
| 2289 | HME198 | 3  | 512 | 71540786 | 512 | 77561906 | 329 | 52 | 13 | 43  | 38 | 52 | RTLAC    |      |
| 2290 | HME198 | 4  | 512 | 77602866 | 512 | 82845746 | 329 | 52 | 13 | 43  | 38 | 52 | RTLAC    |      |
| 2291 | HME198 | 5  | 512 | 82886706 | 512 | 83583026 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2292 | HME198 | 6  | 512 | 83664946 | 512 | 85344306 | 182 | 0  | 15 | 39  | 41 | 2  | NGC      | 4151 |
| 2293 | HME198 | 7  | 512 | 85385266 | 512 | 86327346 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2294 | HME198 | 8  | 512 | 86368306 | 513 | 1565746  | 345 | 31 | 42 | -8  | 57 | 18 | MGC-2-58 |      |
| 2295 | HME198 | 9  | 513 | 1606706  | 513 | 2057266  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2296 | HME198 | 10 | 513 | 2098226  | 513 | 2221106  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2297 | HME198 | 11 | 513 | 2262066  | 513 | 4351026  | 182 | 0  | 15 | 39  | 41 | 2  | NGC      | 4151 |
| 2298 | HME198 | 12 | 513 | 4391986  | 513 | 5334066  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2299 | HME198 | 13 | 513 | 5375027  | 513 | 7341107  | 345 | 31 | 42 | -8  | 57 | 18 | MGC-2-58 |      |
| 2300 | HME198 | 14 | 513 | 7382067  | 513 | 8037427  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2301 | HME198 | 15 | 513 | 8160307  | 513 | 10249267 | 182 | 0  | 15 | 39  | 41 | 9  | NGC      | 4151 |
| 2302 | HME198 | 16 | 513 | 10290227 | 513 | 11232307 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2303 | HME198 | 17 | 513 | 11273267 | 513 | 13157427 | 345 | 31 | 42 | -8  | 57 | 18 | MGC-2-58 |      |
| 2304 | HME198 | 18 | 513 | 13321267 | 513 | 13853747 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2305 | HME198 | 19 | 513 | 13894707 | 513 | 15942707 | 182 | 0  | 15 | 39  | 41 | 9  | MGC-2-58 |      |
| 2306 | HME198 | 20 | 513 | 15983667 | 513 | 16925747 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2307 | HME198 | 21 | 513 | 16966707 | 513 | 18850867 | 345 | 31 | 42 | -8  | 57 | 18 | MGC-2-58 |      |
| 2308 | HME198 | 22 | 513 | 18891827 | 513 | 19547187 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2309 | HME198 | 23 | 513 | 19588147 | 513 | 20202547 | 182 | 0  | 15 | 39  | 41 | 9  | NGC      | 4151 |
| 2310 | HME198 | 24 | 513 | 20243507 | 513 | 21636147 | 182 | 0  | 15 | 39  | 41 | 9  | NGC      | 4151 |
| 2311 | HME198 | 25 | 513 | 21677107 | 513 | 22619187 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2312 | HME198 | 26 | 513 | 22660147 | 513 | 24544307 | 345 | 31 | 42 | -8  | 57 | 18 | MGC-2-58 |      |
| 2313 | HME198 | 27 | 513 | 24585267 | 513 | 25117747 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2314 | HME198 | 28 | 513 | 25158707 | 513 | 31548467 | 140 | 21 | 15 | -63 | 4  | 46 | H0921-03 |      |
| 2315 | HME198 | 29 | 513 | 31589427 | 513 | 37610547 | 140 | 21 | 15 | -63 | 4  | 46 | H0921-03 |      |
| 2316 | HME198 | 30 | 513 | 37651507 | 513 | 38511667 | 140 | 21 | 15 | -63 | 4  | 46 | H0921-03 |      |
| 2317 | HME198 | 31 | 513 | 38552627 | 513 | 39003187 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2318 | HME198 | 32 | 513 | 39044147 | 513 | 41583667 | 348 | 54 | 35 | -42 | 38 | 41 | NGC      | 7582 |
| 2319 | HME198 | 33 | 513 | 41624627 | 513 | 42648627 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2320 | HME198 | 34 | 513 | 42689587 | 513 | 43713587 | 154 | 14 | 0  | 20  | 7  | 21 | AO       | LEO  |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 2321 | HME198 | 35 | 513 | 43754547 | 513 | 44246067 | 154 | 14 | 0  | 20  | 7  | 21 | AO LEO   |
| 2322 | HME198 | 36 | 513 | 44287027 | 513 | 44942387 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2323 | HME198 | 37 | 513 | 44983347 | 513 | 47031347 | 348 | 54 | 35 | -42 | 38 | 41 | NGC 7582 |
| 2324 | HME198 | 38 | 513 | 47072307 | 513 | 48096307 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2325 | HME198 | 39 | 513 | 48137267 | 513 | 49939507 | 154 | 14 | 0  | 20  | 7  | 21 | AO LEO   |
| 2326 | HME198 | 40 | 513 | 49980467 | 513 | 50758707 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2327 | HME198 | 41 | 513 | 50799667 | 513 | 52233267 | 345 | 31 | 42 | -8  | 57 | 18 | MCG-2-58 |
| 2328 | HME198 | 42 | 513 | 52274227 | 513 | 53216307 | 345 | 31 | 42 | -8  | 57 | 18 | MCG-2-58 |
| 2329 | HME198 | 43 | 513 | 53257267 | 513 | 54240307 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2330 | HME198 | 44 | 513 | 54281267 | 513 | 55837747 | 182 | 0  | 15 | 39  | 41 | 9  | NGC 4151 |
| 2331 | HME198 | 45 | 513 | 55878707 | 513 | 56206387 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2332 | HME199 | 1  | 513 | 56247347 | 513 | 58295347 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2333 | HME199 | 2  | 513 | 58336307 | 513 | 61613107 | 154 | 14 | 0  | 20  | 7  | 21 | AO LEO   |
| 2334 | HME199 | 3  | 513 | 61654067 | 513 | 61940787 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2335 | HME199 | 4  | 513 | 61981747 | 513 | 64439347 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2336 | HME199 | 5  | 513 | 64480307 | 513 | 66405427 | 182 | 0  | 15 | 39  | 41 | 9  | NGC 4151 |
| 2337 | HME199 | 6  | 513 | 66446387 | 513 | 67019827 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2338 | HME199 | 7  | 513 | 67060787 | 513 | 70460467 | 322 | 24 | 6  | 47  | 4  | 9  | 2129+47  |
| 2339 | HME199 | 8  | 513 | 70501427 | 513 | 76563507 | 322 | 24 | 6  | 47  | 4  | 9  | 2129+47  |
| 2340 | HME199 | 9  | 513 | 76604467 | 513 | 81560628 | 322 | 24 | 6  | 47  | 4  | 9  | 2129+47  |
| 2341 | HME199 | 10 | 513 | 81601588 | 513 | 82256948 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2342 | HME199 | 11 | 513 | 82297908 | 513 | 82543668 | 182 | 0  | 15 | 39  | 41 | 9  | NGC 4151 |
| 2343 | HME199 | 12 | 513 | 82584628 | 513 | 85083188 | 182 | 0  | 15 | 39  | 41 | 9  | NGC 4151 |
| 2344 | HME199 | 13 | 513 | 85124148 | 513 | 85247028 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2345 | HME199 | 14 | 517 | 74986552 | 517 | 75396152 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2346 | HME199 | 15 | 517 | 75437112 | 517 | 78017592 | 325 | 39 | 12 | 38  | 5  | 28 | CYG X-2  |
| 2347 | HME199 | 16 | 517 | 78058552 | 517 | 78304312 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2348 | HME199 | 17 | 517 | 78345272 | 517 | 78713912 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2349 | HME199 | 18 | 517 | 78754872 | 517 | 80475192 | 197 | 4  | 45 | 36  | 12 | 0  | RSCVN    |
| 2350 | HME199 | 19 | 517 | 80516152 | 517 | 80966712 | 197 | 4  | 45 | 36  | 12 | 0  | RSCVN    |
| 2351 | HME199 | 20 | 517 | 81007672 | 517 | 82277432 | 325 | 39 | 12 | 38  | 5  | 28 | CYG X-2  |
| 2352 | HME199 | 21 | 517 | 82318392 | 517 | 83342392 | 325 | 39 | 12 | 38  | 5  | 28 | CYG X-2  |
| 2353 | HME199 | 22 | 517 | 83383352 | 517 | 84038712 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2354 | HME199 | 23 | 517 | 84079672 | 517 | 86168632 | 197 | 4  | 45 | 36  | 12 | 0  | RSCVN    |
| 2355 | HME199 | 24 | 517 | 86209592 | 518 | 383032   | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2356 | HME199 | 25 | 518 | 423992   | 518 | 2717752  | 321 | 53 | 28 | 11  | 56 | 51 | NGC 7078 |
| 2357 | HME199 | 26 | 518 | 2840632  | 518 | 3495992  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2358 | HME199 | 27 | 518 | 3536952  | 518 | 5339192  | 197 | 4  | 45 | 36  | 12 | 0  | RSCVN    |
| 2359 | HME199 | 28 | 518 | 5380152  | 518 | 5953592  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2360 | HME199 | 29 | 518 | 5994552  | 518 | 8165432  | 321 | 53 | 28 | 11  | 56 | 51 | NGC 7078 |
| 2361 | HME199 | 30 | 518 | 8206392  | 518 | 8902712  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2362 | HME199 | 31 | 518 | 8943672  | 518 | 11032632 | 197 | 4  | 45 | 36  | 12 | 0  | RSCVN    |
| 2363 | HME199 | 32 | 518 | 11073592 | 518 | 11647032 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2364 | HME199 | 33 | 518 | 11687992 | 518 | 13858872 | 321 | 53 | 28 | 11  | 56 | 51 | NGC 7078 |
| 2365 | HME199 | 34 | 518 | 13899832 | 518 | 14637112 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2366 | HME199 | 35 | 518 | 14678072 | 518 | 14923832 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2367 | HME199 | 36 | 518 | 14964792 | 518 | 16726072 | 197 | 4  | 45 | 36  | 12 | 0  | RSCVN    |
| 2368 | HME199 | 37 | 518 | 16767032 | 518 | 17340472 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2369 | HME199 | 38 | 518 | 17381432 | 518 | 19388472 | 321 | 53 | 28 | 11  | 56 | 51 | NGC 7078 |
| 2370 | HME199 | 39 | 518 | 19429432 | 518 | 20043833 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2371 | HME199 | 40 | 518 | 20207673 | 518 | 26228793 | 83  | 14 | 30 | -66 | 24 | 54 | LMC X-4  |
| 2372 | HME199 | 41 | 518 | 26269753 | 518 | 32290873 | 83  | 14 | 30 | -66 | 24 | 54 | LMC X-4  |
| 2373 | HME199 | 42 | 518 | 32331833 | 518 | 33273913 | 83  | 14 | 30 | -66 | 24 | 54 | LMC X-4  |
| 2374 | HME199 | 43 | 518 | 33314873 | 518 | 33724473 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2375 | HME300 | 1  | 518 | 33765433 | 518 | 36837433 | 348 | 54 | 36 | -42 | 38 | 42 | NGC 7582 |
| 2376 | HME300 | 2  | 518 | 36878393 | 518 | 37656633 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2377 | HME300 | 3  | 518 | 37697593 | 518 | 39295033 | 145 | 49 | 21 | -14 | 5  | 48 | NGC 2992 |
| 2378 | HME300 | 4  | 518 | 39335993 | 518 | 39909433 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2379 | HME300 | 5  | 518 | 39950393 | 518 | 40810553 | 348 | 54 | 36 | -42 | 38 | 42 | NGC 7582 |
| 2380 | HME300 | 6  | 518 | 40851513 | 518 | 42121273 | 348 | 54 | 36 | -42 | 38 | 42 | NGC 7582 |
| 2381 | HME300 | 7  | 518 | 42162233 | 518 | 42940473 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2382 | HME300 | 8  | 518 | 42981433 | 518 | 44988473 | 145 | 49 | 21 | -14 | 5  | 48 | NGC 2992 |
| 2383 | HME300 | 9  | 518 | 45029433 | 518 | 45357113 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2384 | HME300 | 10 | 518 | 45398073 | 518 | 45602873 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2385 | HME300 | 11 | 518 | 45643833 | 518 | 46913593 | 348 | 54 | 36 | -42 | 38 | 42 | NGC 7582 |
| 2386 | HME300 | 12 | 518 | 46954553 | 518 | 47814713 | 348 | 54 | 36 | -42 | 38 | 42 | NGC 7582 |
| 2387 | HME300 | 13 | 518 | 47855673 | 518 | 48470073 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2388 | HME300 | 14 | 518 | 48511033 | 518 | 50681913 | 145 | 49 | 21 | -14 | 5  | 48 | NGC 2992 |
| 2389 | HME300 | 15 | 518 | 50722873 | 518 | 51296313 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2390 | HME300 | 16 | 518 | 51337273 | 518 | 52975673 | 348 | 54 | 21 | -14 | 5  | 48 | NGC 2992 |
| 2391 | HME300 | 17 | 518 | 53262393 | 518 | 53508153 | 348 | 54 | 21 | -14 | 5  | 48 | NGC 2992 |
| 2392 | HME300 | 18 | 518 | 53549113 | 518 | 54327353 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2393 | HME300 | 19 | 518 | 54368313 | 518 | 56375353 | 145 | 49 | 21 | -14 | 5  | 48 | NGC 7582 |
| 2394 | HME300 | 20 | 518 | 56416313 | 518 | 56825913 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2395 | HME300 | 21 | 518 | 56866873 | 518 | 59078713 | 80  | 17 | 15 | -72 | 0  | 7  | LMC X-2  |
| 2396 | HME300 | 22 | 518 | 59119673 | 518 | 65099833 | 80  | 17 | 15 | -72 | 0  | 7  | LMC X-2  |
| 2397 | HME300 | 23 | 518 | 65140793 | 518 | 66697273 | 80  | 17 | 15 | -72 | 0  | 7  | LMC X-2  |
| 2398 | HME300 | 24 | 518 | 66738233 | 518 | 71161913 | 80  | 17 | 15 | -72 | 0  | 7  | LMC X-2  |
| 2399 | HME300 | 25 | 518 | 71202873 | 518 | 73701433 | 80  | 17 | 15 | -72 | 0  | 7  | LMC X-2  |
| 2400 | HME300 | 26 | 518 | 73742393 | 518 | 74233913 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |      |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|------|
| 2401 | HME300 | 27 | 518 | 74274873 | 518 | 76036153 | 348 | 54 | 36 | -42 | 38 | 42 | NGC      | 7582 |
| 2402 | HME300 | 28 | 518 | 76077113 | 518 | 76650553 | 348 | 54 | 36 | -42 | 38 | 42 | NGC      | 7582 |
| 2403 | HME300 | 29 | 518 | 76691513 | 518 | 77510713 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2404 | HME300 | 30 | 518 | 77551673 | 518 | 79149113 | 145 | 49 | 21 | -14 | 5  | 48 | NGC      | 2992 |
| 2405 | HME300 | 31 | 518 | 79190073 | 518 | 79804473 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2406 | HME300 | 32 | 518 | 79845433 | 518 | 81197113 | 345 | 31 | 43 | -8  | 57 | 19 | MCG-2-58 |      |
| 2407 | HME300 | 33 | 518 | 81238073 | 518 | 82507833 | 345 | 31 | 43 | -8  | 57 | 19 | MCG-2-58 |      |
| 2408 | HME300 | 34 | 518 | 82548793 | 518 | 83163193 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2409 | HME300 | 35 | 518 | 83204153 | 518 | 85129273 | 197 | 4  | 45 | 36  | 12 | 0  | RSCVN    |      |
| 2410 | HME300 | 36 | 518 | 85170233 | 518 | 85825593 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2411 | HME300 | 37 | 518 | 85866553 | 519 | 1514553  | 345 | 31 | 43 | -8  | 57 | 19 | MCG-2-58 |      |
| 2412 | HME301 | 1  | 519 | 1555513  | 519 | 1760313  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2413 | HME301 | 2  | 519 | 1801273  | 519 | 2497593  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2414 | HME301 | 3  | 519 | 2538553  | 519 | 4422713  | 197 | 4  | 45 | 36  | 12 | 0  | RSCVN    |      |
| 2415 | HME301 | 4  | 519 | 4463673  | 519 | 5119033  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2416 | HME301 | 5  | 519 | 5159993  | 519 | 7248954  | 345 | 31 | 43 | -8  | 57 | 19 | MCG-2-58 |      |
| 2417 | HME301 | 6  | 519 | 7289914  | 519 | 7781434  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2418 | HME301 | 7  | 519 | 7945274  | 519 | 9870394  | 145 | 49 | 21 | -14 | 5  | 48 | NGC      | 2992 |
| 2419 | HME301 | 8  | 519 | 9911354  | 519 | 10607674 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2420 | HME301 | 9  | 519 | 10648634 | 519 | 12942394 | 245 | 31 | 43 | -8  | 57 | 19 | MCG-2-58 |      |
| 2421 | HME301 | 10 | 519 | 13065274 | 519 | 13638714 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2422 | HME301 | 11 | 519 | 13679674 | 519 | 15645754 | 175 | 28 | 30 | 20  | 6  | 60 | AL367    |      |
| 2423 | HME301 | 12 | 519 | 15686714 | 519 | 16383034 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2424 | HME301 | 13 | 519 | 16423994 | 519 | 18390074 | 345 | 31 | 43 | -8  | 57 | 19 | MCG-2-58 |      |
| 2425 | HME301 | 14 | 519 | 18431034 | 519 | 18963514 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2426 | HME301 | 15 | 519 | 19004474 | 519 | 19127354 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2427 | HME301 | 16 | 519 | 19168314 | 519 | 25189434 | 81  | 29 | 0  | -66 | 7  | 1  | LMCSNR#1 |      |
| 2428 | HME301 | 17 | 519 | 25230394 | 519 | 31251514 | 81  | 29 | 0  | -66 | 7  | 1  | LMCSNR#1 |      |
| 2429 | HME301 | 18 | 519 | 31292474 | 519 | 32398394 | 81  | 29 | 0  | -66 | 7  | 1  | LMCSNR#1 |      |
| 2430 | HME301 | 19 | 519 | 32439354 | 519 | 32930874 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2431 | HME301 | 20 | 519 | 32971834 | 519 | 35920954 | 345 | 31 | 43 | -8  | 57 | 19 | MCG-2-58 |      |
| 2432 | HME301 | 21 | 519 | 35961914 | 519 | 36535354 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2433 | HME301 | 22 | 519 | 36576314 | 519 | 38378554 | 125 | 15 | 0  | -42 | 44 | 60 | PUPAL672 |      |
| 2434 | HME301 | 23 | 519 | 38419514 | 519 | 38992954 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2435 | HME301 | 24 | 519 | 39033914 | 519 | 39730234 | 345 | 31 | 43 | -8  | 57 | 19 | MCG-2-58 |      |
| 2436 | HME301 | 25 | 519 | 39771194 | 519 | 41204794 | 345 | 31 | 43 | -8  | 57 | 19 | MCG-2-58 |      |
| 2437 | HME301 | 26 | 519 | 41245754 | 519 | 41819194 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2438 | HME301 | 27 | 519 | 41860154 | 519 | 44071994 | 125 | 15 | 0  | -42 | 44 | 60 | PUPAL672 |      |
| 2439 | HME301 | 28 | 519 | 44112954 | 519 | 44727354 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2440 | HME301 | 29 | 519 | 44768314 | 519 | 45833274 | 345 | 31 | 43 | -8  | 57 | 19 | MCG-2-58 |      |
| 2441 | HME301 | 30 | 519 | 45874234 | 519 | 46898234 | 345 | 31 | 43 | -8  | 57 | 19 | MCG-2-58 |      |
| 2442 | HME301 | 31 | 519 | 46939194 | 519 | 47512634 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2443 | HME301 | 32 | 519 | 47553594 | 519 | 49765434 | 125 | 15 | 0  | -42 | 44 | 60 | PUPAL672 |      |
| 2444 | HME301 | 33 | 519 | 49806394 | 519 | 50379834 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2445 | HME301 | 34 | 519 | 50420794 | 519 | 52018234 | 345 | 31 | 43 | -8  | 57 | 19 | MCG-2-58 |      |
| 2446 | HME301 | 35 | 519 | 52059194 | 519 | 52591674 | 345 | 31 | 43 | -8  | 57 | 19 | MCG-2-58 |      |
| 2447 | HME301 | 36 | 519 | 52632634 | 519 | 53206074 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2448 | HME301 | 37 | 519 | 53247034 | 519 | 55458874 | 125 | 15 | 0  | -42 | 44 | 60 | PUPAL672 |      |
| 2449 | HME301 | 38 | 519 | 55499834 | 519 | 55827514 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2450 | HME301 | 39 | 519 | 55868474 | 519 | 58039354 | 81  | 19 | 45 | -66 | 1  | 33 | LMCSNRH2 |      |
| 2451 | HME301 | 40 | 519 | 58080314 | 519 | 64019514 | 81  | 19 | 45 | -66 | 1  | 33 | LMCSNRH2 |      |
| 2452 | HME301 | 41 | 519 | 64060474 | 519 | 67050554 | 81  | 19 | 45 | -66 | 1  | 33 | LMCSNRH2 |      |
| 2453 | HME301 | 42 | 519 | 67091514 | 519 | 67583034 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2454 | HME301 | 43 | 519 | 67623994 | 519 | 70081594 | 347 | 29 | 58 | 2   | 24 | 7  | SZ PSC   |      |
| 2455 | HME301 | 44 | 519 | 70122554 | 519 | 70695994 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2456 | HME301 | 45 | 519 | 70736954 | 519 | 72580154 | 125 | 37 | 30 | -42 | 55 | 60 | PUPAL675 |      |
| 2457 | HME301 | 46 | 519 | 72621114 | 519 | 73235514 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2458 | HME301 | 47 | 519 | 73276474 | 519 | 74955834 | 347 | 29 | 58 | 2   | 24 | 7  | SZ PSC   |      |
| 2459 | HME301 | 48 | 519 | 74996794 | 519 | 75406394 | 347 | 29 | 58 | 2   | 24 | 7  | SZ PSC   |      |
| 2460 | HME301 | 49 | 519 | 75447354 | 519 | 76266554 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2461 | HME302 | 1  | 519 | 76307514 | 519 | 78273594 | 125 | 37 | 30 | -42 | 55 | 60 | PUPAL675 |      |
| 2462 | HME302 | 2  | 519 | 78314554 | 519 | 78969914 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2463 | HME302 | 3  | 519 | 79010874 | 519 | 80116794 | 347 | 29 | 58 | 2   | 24 | 7  | SZ PSC   |      |
| 2464 | HME302 | 4  | 519 | 80157754 | 519 | 81099835 | 347 | 29 | 58 | 2   | 24 | 7  | SZ PSC   |      |
| 2465 | HME302 | 5  | 519 | 81140795 | 519 | 81959995 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2466 | HME302 | 6  | 519 | 82000955 | 519 | 83967035 | 125 | 37 | 30 | -42 | 55 | 60 | PUPAL675 |      |
| 2467 | HME302 | 7  | 519 | 84007995 | 519 | 84663355 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2468 | HME302 | 8  | 519 | 84704315 | 520 | 393275   | 347 | 29 | 58 | 2   | 24 | 7  | SZ PSC   |      |
| 2469 | HME302 | 9  | 520 | 434235   | 520 | 679995   | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2470 | HME302 | 10 | 520 | 720955   | 520 | 1253435  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2471 | HME302 | 11 | 520 | 1294395  | 520 | 3260475  | 125 | 37 | 30 | -42 | 55 | 60 | PUPAL675 |      |
| 2472 | HME302 | 12 | 520 | 3301435  | 520 | 3956795  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2473 | HME302 | 13 | 520 | 3997755  | 520 | 6086715  | 347 | 29 | 58 | 2   | 24 | 7  | SZ PSC   |      |
| 2474 | HME302 | 14 | 520 | 6127675  | 520 | 6742075  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2475 | HME302 | 15 | 520 | 6783035  | 520 | 6946875  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2476 | HME302 | 16 | 520 | 6987835  | 520 | 8953915  | 125 | 37 | 30 | -42 | 55 | 60 | PUPAL675 |      |
| 2477 | HME302 | 17 | 520 | 8994875  | 520 | 9650235  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2478 | HME302 | 18 | 520 | 9691195  | 520 | 11984955 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2479 | HME302 | 19 | 520 | 12025915 | 520 | 18006075 | 207 | 58 | 0  | 69  | 3  | 16 | MKN      | 279  |
| 2480 | HME302 | 20 | 520 | 18047035 | 520 | 24068155 | 207 | 58 | 0  | 69  | 3  | 16 | MKN      | 279  |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |      |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|------|
| 2481 | HME302 | 21 | 520 | 24191035 | 520 | 24436795 | 207 | 58 | 0  | 69  | 3  | 16 | MRN      | 279  |
| 2482 | HME302 | 22 | 520 | 24477755 | 520 | 26689595 | 207 | 58 | 0  | 69  | 3  | 16 | MRN      | 279  |
| 2483 | HME302 | 23 | 520 | 26730555 | 520 | 27140155 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2484 | HME302 | 24 | 520 | 27181115 | 520 | 30171195 | 155 | 11 | 45 | 20  | 7  | 8  | NGC      | 3227 |
| 2485 | HME302 | 25 | 520 | 30212155 | 520 | 32137275 | 155 | 11 | 45 | 20  | 7  | 8  | NGC      | 3227 |
| 2486 | HME302 | 26 | 520 | 32178235 | 520 | 32956475 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2487 | HME302 | 27 | 520 | 32997435 | 520 | 34594875 | 330 | 44 | 19 | 46  | 59 | 27 | HK       | LAC  |
| 2488 | HME302 | 28 | 520 | 34635835 | 520 | 35250235 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2489 | HME302 | 29 | 520 | 35291195 | 520 | 37421115 | 155 | 11 | 45 | 20  | 7  | 8  | NGC      | 3227 |
| 2490 | HME302 | 30 | 520 | 37462075 | 520 | 38240315 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2491 | HME302 | 31 | 520 | 38281275 | 520 | 38649915 | 330 | 44 | 19 | 46  | 59 | 27 | HK       | LAC  |
| 2492 | HME302 | 32 | 520 | 38731835 | 520 | 40288315 | 330 | 44 | 19 | 46  | 59 | 27 | HK       | LAC  |
| 2493 | HME302 | 33 | 520 | 40329275 | 520 | 40984635 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2494 | HME302 | 34 | 520 | 41025595 | 520 | 43114555 | 155 | 11 | 45 | 20  | 7  | 8  | NGC      | 3227 |
| 2495 | HME302 | 35 | 520 | 43155515 | 520 | 43933755 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2496 | HME302 | 36 | 520 | 43974715 | 520 | 44834875 | 330 | 44 | 19 | 46  | 59 | 27 | HK       | LAC  |
| 2497 | HME302 | 37 | 520 | 44875835 | 520 | 45981755 | 330 | 44 | 19 | 46  | 59 | 27 | HK       | LAC  |
| 2498 | HME302 | 38 | 520 | 46022715 | 520 | 46637115 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2499 | HME302 | 39 | 520 | 46678075 | 520 | 48807995 | 155 | 11 | 45 | 20  | 7  | 8  | NGC      | 3227 |
| 2500 | HME302 | 40 | 520 | 48848955 | 520 | 49627195 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2501 | HME302 | 41 | 520 | 49668155 | 520 | 50937915 | 330 | 44 | 19 | 46  | 59 | 27 | HK       | LAC  |
| 2502 | HME302 | 42 | 520 | 50978875 | 520 | 51675195 | 330 | 44 | 19 | 46  | 59 | 27 | HK       | LAC  |
| 2503 | HME302 | 43 | 520 | 51716155 | 520 | 52330555 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2504 | HME302 | 44 | 520 | 52371515 | 520 | 55115835 | 175 | 28 | 30 | 20  | 6  | 60 | AL367    |      |
| 2505 | HME302 | 45 | 520 | 55156795 | 520 | 55730235 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2506 | HME302 | 46 | 520 | 55771195 | 520 | 56918075 | 89  | 30 | 0  | -66 | 29 | 60 | BCKGRD   |      |
| 2507 | HME302 | 47 | 520 | 56959035 | 520 | 62980155 | 89  | 30 | 0  | -66 | 29 | 60 | BCKGRD   |      |
| 2508 | HME302 | 48 | 520 | 63021115 | 520 | 66011195 | 89  | 30 | 0  | -66 | 29 | 60 | BCKGRD   |      |
| 2509 | HME303 | 1  | 520 | 66052155 | 520 | 66625595 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2510 | HME303 | 2  | 520 | 66666555 | 520 | 69042236 | 345 | 10 | 58 | 8   | 36 | 18 | NGC      | 7469 |
| 2511 | HME303 | 3  | 520 | 69124156 | 520 | 70025276 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2512 | HME303 | 4  | 520 | 70066236 | 520 | 71663676 | 175 | 28 | 30 | 20  | 6  | 60 | AL367    |      |
| 2513 | HME303 | 5  | 520 | 71704636 | 520 | 72319036 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2514 | HME303 | 6  | 520 | 72359996 | 520 | 73834556 | 345 | 10 | 58 | 8   | 36 | 18 | NGC      | 7469 |
| 2515 | HME303 | 7  | 520 | 73875516 | 520 | 74448956 | 345 | 10 | 58 | 8   | 36 | 18 | NGC      | 7469 |
| 2516 | HME303 | 8  | 520 | 74489916 | 520 | 75104316 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2517 | HME303 | 9  | 520 | 75145276 | 520 | 77357116 | 175 | 28 | 30 | 20  | 6  | 60 | AL367    |      |
| 2518 | HME303 | 10 | 520 | 77398076 | 520 | 78094396 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2519 | HME303 | 11 | 520 | 78135356 | 520 | 79896636 | 345 | 10 | 58 | 8   | 36 | 18 | NGC      | 7469 |
| 2520 | HME303 | 12 | 520 | 79937596 | 520 | 80142396 | 345 | 10 | 58 | 8   | 36 | 18 | NGC      | 7469 |
| 2521 | HME303 | 13 | 520 | 80183356 | 520 | 80797756 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2522 | HME303 | 14 | 520 | 80838716 | 520 | 83009596 | 175 | 28 | 30 | 20  | 6  | 60 | AL367    |      |
| 2523 | HME303 | 15 | 520 | 83050556 | 520 | 83705916 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2524 | HME303 | 16 | 520 | 83746876 | 520 | 85098556 | 345 | 10 | 58 | 8   | 36 | 18 | NGC      | 7469 |
| 2525 | HME303 | 17 | 520 | 85139516 | 520 | 85794876 | 345 | 10 | 58 | 8   | 36 | 18 | NGC      | 7469 |
| 2526 | HME303 | 18 | 520 | 85835836 | 521 | 50236    | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2527 | HME303 | 19 | 521 | 91196    | 521 | 2303036  | 175 | 28 | 30 | 20  | 6  | 60 | AL367    |      |
| 2528 | HME303 | 20 | 521 | 2343996  | 521 | 2999356  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2529 | HME303 | 21 | 521 | 3040316  | 521 | 5088316  | 345 | 10 | 58 | 8   | 36 | 18 | NGC      | 7469 |
| 2530 | HME303 | 22 | 521 | 5129276  | 521 | 5620796  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2531 | HME303 | 23 | 521 | 5784636  | 521 | 7996476  | 175 | 28 | 30 | 20  | 6  | 60 | AL367    |      |
| 2532 | HME303 | 24 | 521 | 8037436  | 521 | 8692796  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2533 | HME303 | 25 | 521 | 8733756  | 521 | 10781756 | 345 | 10 | 58 | 8   | 36 | 18 | NGC      | 7469 |
| 2534 | HME303 | 26 | 521 | 10822716 | 521 | 11437116 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2535 | HME303 | 27 | 521 | 11478076 | 521 | 13607996 | 175 | 28 | 30 | 20  | 6  | 60 | AL367    |      |
| 2536 | HME303 | 28 | 521 | 13648956 | 521 | 13894716 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2537 | HME303 | 29 | 521 | 13935676 | 521 | 14263356 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2538 | HME303 | 30 | 521 | 14304316 | 521 | 23028796 | 184 | 43 | 0  | 30  | 27 | 14 | BLLACOBJ |      |
| 2539 | HME303 | 31 | 521 | 23069756 | 521 | 24912956 | 184 | 43 | 0  | 30  | 27 | 14 | BLLACOBJ |      |
| 2540 | HME303 | 32 | 521 | 24953916 | 521 | 25158716 | 184 | 43 | 0  | 30  | 27 | 14 | BLLACOBJ |      |
| 2541 | HME303 | 33 | 521 | 25199676 | 521 | 29090876 | 184 | 43 | 0  | 30  | 27 | 14 | BLLACOBJ |      |
| 2542 | HME303 | 34 | 521 | 29131836 | 521 | 30237756 | 184 | 43 | 0  | 30  | 27 | 14 | BLLACOBJ |      |
| 2543 | HME303 | 35 | 521 | 30278716 | 521 | 30565436 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2544 | HME303 | 36 | 521 | 30606396 | 521 | 37241916 | 175 | 28 | 30 | 20  | 6  | 60 | AL367    |      |
| 2545 | HME303 | 37 | 521 | 37651516 | 521 | 39412796 | 330 | 44 | 19 | 46  | 59 | 27 | HK       | LAC  |
| 2546 | HME303 | 38 | 521 | 39453756 | 521 | 39986236 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2547 | HME303 | 39 | 521 | 40027196 | 521 | 42239036 | 175 | 28 | 30 | 20  | 6  | 60 | AL367    |      |
| 2548 | HME303 | 40 | 521 | 42279996 | 521 | 43017276 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2549 | HME303 | 41 | 521 | 43058236 | 521 | 43713596 | 330 | 44 | 19 | 46  | 59 | 27 | HK       | LAC  |
| 2550 | HME303 | 42 | 521 | 43754556 | 521 | 45106236 | 330 | 44 | 19 | 46  | 59 | 27 | HK       | LAC  |
| 2551 | HME303 | 43 | 521 | 45147196 | 521 | 45679676 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2552 | HME303 | 44 | 521 | 45720636 | 521 | 48301116 | 175 | 28 | 30 | 20  | 6  | 60 | AL367    |      |
| 2553 | HME303 | 45 | 521 | 48342076 | 521 | 49079356 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2554 | HME303 | 46 | 521 | 49120316 | 521 | 49939516 | 325 | 10 | 58 | 43  | 21 | 18 | SS       | CYG  |
| 2555 | HME303 | 47 | 521 | 49980476 | 521 | 50717756 | 325 | 10 | 58 | 43  | 21 | 18 | SS       | CYG  |
| 2556 | HME303 | 48 | 521 | 50758716 | 521 | 51332156 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2557 | HME303 | 49 | 521 | 51373116 | 521 | 53543996 | 175 | 28 | 30 | 20  | 6  | 60 | AL367    |      |
| 2558 | HME303 | 50 | 521 | 53584956 | 521 | 54158396 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2559 | HME304 | 1  | 521 | 54199356 | 521 | 55878717 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |      |
| 2560 | HME304 | 2  | 521 | 55919677 | 521 | 61899837 | 89  | 30 | 0  | -66 | 29 | 60 | BCKGRD   |      |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 2561 | HME304 | 3  | 521 | 61940797 | 521 | 64889917 | 89  | 30 | 0  | -66 | 29 | 60 | BCKGRD   |
| 2562 | HME304 | 4  | 521 | 64930877 | 521 | 68985917 | 89  | 30 | 0  | -66 | 29 | 60 | BCKGRD   |
| 2563 | HME304 | 5  | 521 | 69026877 | 521 | 69600317 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2564 | HME304 | 6  | 521 | 69641277 | 521 | 72754237 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2565 | HME304 | 7  | 521 | 72795197 | 521 | 76768317 | 175 | 28 | 30 | 20  | 6  | 60 | AL367    |
| 2566 | HME304 | 8  | 521 | 76809277 | 521 | 77464637 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2567 | HME304 | 9  | 521 | 77505597 | 521 | 79184957 | 325 | 10 | 58 | 43  | 21 | 18 | SS CYG   |
| 2568 | HME304 | 10 | 521 | 79225917 | 521 | 79799357 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2569 | HME304 | 11 | 521 | 79840317 | 521 | 82011197 | 175 | 28 | 30 | 20  | 6  | 60 | AL367    |
| 2570 | HME304 | 12 | 521 | 82052157 | 521 | 82789437 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2571 | HME304 | 13 | 521 | 82830397 | 521 | 84018237 | 325 | 10 | 58 | 43  | 21 | 18 | SS CYG   |
| 2572 | HME304 | 14 | 521 | 84059197 | 521 | 84878397 | 325 | 10 | 58 | 43  | 21 | 18 | SS CYG   |
| 2573 | HME304 | 15 | 521 | 84919357 | 521 | 85042237 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2574 | HME304 | 16 | 537 | 85206096 | 537 | 85820496 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2575 | HME304 | 17 | 537 | 85861456 | 538 | 2205776  | 186 | 38 | 15 | 2   | 19 | 43 | 3C 273   |
| 2576 | HME304 | 18 | 538 | 2246736  | 538 | 3065936  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2577 | HME304 | 19 | 538 | 3106896  | 538 | 4663376  | 324 | 54 | 6  | 47  | 4  | 8  | U2129+47 |
| 2578 | HME304 | 20 | 538 | 4704336  | 538 | 5400656  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2579 | HME304 | 21 | 538 | 5441616  | 538 | 7120976  | 186 | 38 | 15 | 2   | 19 | 43 | 3C 273   |
| 2580 | HME304 | 22 | 538 | 7161936  | 538 | 7489616  | 186 | 38 | 15 | 2   | 19 | 43 | 3C 273   |
| 2581 | HME304 | 23 | 538 | 7530576  | 538 | 8349776  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2582 | HME304 | 24 | 538 | 8390736  | 538 | 10356816 | 324 | 54 | 6  | 47  | 4  | 8  | U2129+47 |
| 2583 | HME304 | 25 | 538 | 10397776 | 538 | 11053136 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2584 | HME304 | 26 | 538 | 11094096 | 538 | 13183056 | 186 | 38 | 15 | 2   | 19 | 43 | 3C 273   |
| 2585 | HME304 | 27 | 538 | 13305936 | 538 | 14002256 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2586 | HME304 | 28 | 538 | 14043216 | 538 | 16050256 | 324 | 54 | 6  | 47  | 4  | 8  | U2129+47 |
| 2587 | HME304 | 29 | 538 | 16091216 | 538 | 16418896 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2588 | HME304 | 30 | 538 | 16459856 | 538 | 16746576 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2589 | HME304 | 31 | 538 | 16787536 | 538 | 18876496 | 186 | 38 | 15 | 2   | 19 | 43 | 3C 273   |
| 2590 | HME304 | 32 | 538 | 18917456 | 538 | 19286096 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2591 | HME304 | 33 | 538 | 19327056 | 538 | 19531856 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2592 | HME304 | 34 | 538 | 19572816 | 538 | 25307216 | 325 | 10 | 58 | 43  | 21 | 18 | SS CYG   |
| 2593 | HME304 | 35 | 538 | 25348176 | 538 | 29812816 | 325 | 10 | 58 | 43  | 21 | 18 | SS CYG   |
| 2594 | HME304 | 36 | 538 | 29853776 | 538 | 30099536 | 325 | 10 | 58 | 43  | 21 | 18 | SS CYG   |
| 2595 | HME304 | 37 | 538 | 30140496 | 538 | 31369296 | 325 | 10 | 58 | 43  | 21 | 18 | SS CYG   |
| 2596 | HME304 | 38 | 538 | 31410256 | 538 | 37103696 | 325 | 10 | 58 | 43  | 21 | 18 | SS CYG   |
| 2597 | HME304 | 39 | 538 | 37144656 | 538 | 37431376 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2598 | HME304 | 40 | 538 | 37554256 | 538 | 39274576 | 353 | 46 | 36 | 46  | 11 | 13 | LAM AND  |
| 2599 | HME304 | 41 | 538 | 39315536 | 538 | 40134736 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2600 | HME304 | 42 | 538 | 40175696 | 538 | 41855056 | 186 | 57 | 30 | 12  | 42 | 22 | VIRGO    |
| 2601 | HME304 | 43 | 538 | 41896016 | 538 | 42469456 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2602 | HME305 | 1  | 538 | 42510416 | 538 | 44681296 | 358 | 46 | 36 | 46  | 11 | 13 | LAM AND  |
| 2603 | HME305 | 2  | 538 | 44722256 | 538 | 45541456 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2604 | HME305 | 3  | 538 | 45582416 | 538 | 47548496 | 186 | 57 | 30 | 12  | 42 | 22 | VIRGO    |
| 2605 | HME305 | 4  | 538 | 47589456 | 538 | 48244816 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2606 | HME305 | 5  | 538 | 48408656 | 538 | 50374736 | 353 | 46 | 36 | 46  | 11 | 13 | LAM AND  |
| 2607 | HME305 | 6  | 538 | 50415696 | 538 | 51234896 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2608 | HME305 | 7  | 538 | 51275856 | 538 | 53241936 | 186 | 57 | 30 | 12  | 42 | 22 | VIRGO    |
| 2609 | HME305 | 8  | 538 | 53282896 | 538 | 53938256 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2610 | HME305 | 9  | 538 | 53979216 | 538 | 54388816 | 353 | 46 | 36 | 46  | 11 | 13 | LAM AND  |
| 2611 | HME305 | 10 | 538 | 54429776 | 538 | 56068176 | 353 | 46 | 36 | 46  | 11 | 13 | LAM AND  |
| 2612 | HME305 | 11 | 538 | 56109136 | 538 | 56928337 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2613 | HME305 | 12 | 538 | 56969297 | 538 | 58935377 | 186 | 57 | 30 | 12  | 42 | 22 | VIRGO    |
| 2614 | HME305 | 13 | 538 | 58976337 | 538 | 59631697 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2615 | HME305 | 14 | 538 | 59672657 | 538 | 60450897 | 353 | 46 | 36 | 46  | 11 | 13 | LAM AND  |
| 2616 | HME305 | 15 | 538 | 60491857 | 538 | 61761617 | 353 | 46 | 36 | 46  | 11 | 13 | LAM AND  |
| 2617 | HME305 | 16 | 538 | 61802577 | 538 | 62621777 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2618 | HME305 | 17 | 538 | 62662737 | 538 | 64424017 | 186 | 57 | 30 | 12  | 42 | 22 | VIRGO    |
| 2619 | HME305 | 18 | 538 | 64464977 | 538 | 65202257 | 186 | 57 | 30 | 12  | 42 | 22 | VIRGO    |
| 2620 | HME305 | 19 | 538 | 65243217 | 538 | 65693777 | 345 | 10 | 58 | 8   | 36 | 18 | N 7469   |
| 2621 | HME305 | 20 | 538 | 65734737 | 538 | 71755857 | 345 | 10 | 58 | 8   | 36 | 18 | N 7469   |
| 2622 | HME305 | 21 | 538 | 71878737 | 538 | 77449297 | 345 | 10 | 58 | 8   | 36 | 18 | N 7469   |
| 2623 | HME305 | 22 | 538 | 77490257 | 538 | 77817937 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2624 | HME305 | 23 | 538 | 77858897 | 538 | 78432337 | 9   | 49 | 54 | -9  | 34 | 0  | A 85     |
| 2625 | HME305 | 24 | 538 | 78555217 | 538 | 79087697 | 9   | 49 | 54 | -9  | 34 | 0  | A 85     |
| 2626 | HME305 | 25 | 538 | 79128657 | 538 | 80193617 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2627 | HME305 | 26 | 538 | 80234577 | 538 | 81832017 | 186 | 38 | 15 | 2   | 19 | 43 | 3C 273   |
| 2628 | HME305 | 27 | 538 | 81872977 | 538 | 82692177 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2629 | HME305 | 28 | 538 | 82733137 | 538 | 83920977 | 9   | 49 | 45 | -9  | 34 | 0  | A 85     |
| 2630 | HME305 | 29 | 538 | 83961937 | 538 | 84576337 | 9   | 49 | 45 | -9  | 34 | 0  | A 85     |
| 2631 | HME305 | 30 | 538 | 84617297 | 538 | 85723217 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2632 | HME305 | 31 | 538 | 85764177 | 539 | 1125457  | 186 | 38 | 15 | 2   | 19 | 43 | 3C 273   |
| 2633 | HME309 | 40 | 539 | 1166417  | 539 | 1985617  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2634 | HME309 | 41 | 539 | 2026577  | 539 | 3869777  | 9   | 49 | 45 | -9  | 34 | 0  | A 85     |
| 2635 | HME309 | 42 | 539 | 3910737  | 539 | 5016657  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2636 | HME309 | 43 | 539 | 5057617  | 539 | 5999697  | 186 | 38 | 16 | 2   | 19 | 43 | 3C 273   |
| 2637 | HME309 | 44 | 539 | 6040657  | 539 | 6818897  | 186 | 38 | 16 | 2   | 19 | 43 | 3C 273   |
| 2638 | HME309 | 45 | 539 | 6859857  | 539 | 7679057  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2639 | HME309 | 46 | 539 | 7720017  | 539 | 9563217  | 9   | 49 | 45 | -9  | 34 | 0  | A 85     |
| 2640 | HME309 | 47 | 539 | 9604177  | 539 | 10710097 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |

|      |        |        |          |     |          |           |           |          |
|------|--------|--------|----------|-----|----------|-----------|-----------|----------|
| 2641 | HME309 | 48 539 | 10751057 | 539 | 12184657 | 186 38 15 | 2 19 43   | 3C 273   |
| 2642 | HME309 | 49 539 | 12225617 | 539 | 12512337 | 186 38 15 | 2 19 43   | 3C 273   |
| 2643 | HME309 | 50 539 | 12553297 | 539 | 13372497 | 0 0 0     | 0 0 0     | SLEW     |
| 2644 | HME309 | 51 539 | 13413457 | 539 | 15256657 | 9 49 45   | -9 34 0   | A 85     |
| 2645 | HME309 | 52 539 | 15297617 | 539 | 16403537 | 0 0 0     | 0 0 0     | SLEW     |
| 2646 | HME309 | 53 539 | 16444497 | 539 | 18205777 | 186 38 15 | 2 19 43   | 3C 273   |
| 2647 | HME309 | 54 539 | 18287697 | 539 | 19065937 | 0 0 0     | 0 0 0     | SLEW     |
| 2648 | HME309 | 55 539 | 19106897 | 539 | 20950097 | 9 49 45   | -9 34 0   | A 85     |
| 2649 | HME309 | 56 539 | 20991057 | 539 | 21605457 | 0 0 0     | 0 0 0     | SLEW     |
| 2650 | HME310 | 1 539  | 21646417 | 539 | 24226897 | 146 22 0  | -30 42 24 | 0945-30  |
| 2651 | HME310 | 2 539  | 24267857 | 539 | 30288977 | 146 22 0  | -30 42 24 | 0945-30  |
| 2652 | HME310 | 3 539  | 30329937 | 539 | 34425937 | 146 22 0  | -30 42 24 | 0945-30  |
| 2653 | HME310 | 4 539  | 34466897 | 539 | 35163217 | 0 0 0     | 0 0 0     | SLEW     |
| 2654 | HME310 | 5 539  | 35204177 | 539 | 36310097 | 345 10 58 | 8 36 18   | NGC 7469 |
| 2655 | HME310 | 6 539  | 36351057 | 539 | 38153297 | 345 10 58 | 8 36 18   | NGC 7469 |
| 2656 | HME310 | 7 539  | 38194257 | 539 | 39177297 | 0 0 0     | 0 0 0     | SLEW     |
| 2657 | HME310 | 8 539  | 39218257 | 539 | 40815697 | 187 4 15  | 12 40 0   | M 87     |
| 2658 | HME310 | 9 539  | 40856657 | 539 | 41184337 | 0 0 0     | 0 0 0     | SLEW     |
| 2659 | HME310 | 10 539 | 41225297 | 539 | 41552977 | 0 0 0     | 0 0 0     | SLEW     |
| 2660 | HME310 | 11 539 | 41593937 | 539 | 43560018 | 345 10 58 | 8 36 18   | NGC 7469 |
| 2661 | HME310 | 12 539 | 43600978 | 539 | 44584018 | 0 0 0     | 0 0 0     | SLEW     |
| 2662 | HME310 | 13 539 | 44624978 | 539 | 46509138 | 187 4 15  | 12 40 0   | M 87     |
| 2663 | HME310 | 14 539 | 46550098 | 539 | 47287378 | 0 0 0     | 0 0 0     | SLEW     |
| 2664 | HME310 | 15 539 | 47328338 | 539 | 49253458 | 345 10 58 | 8 36 18   | NGC 7469 |
| 2665 | HME310 | 16 539 | 49294418 | 539 | 50277458 | 0 0 0     | 0 0 0     | SLEW     |
| 2666 | HME310 | 17 539 | 50318418 | 539 | 52202758 | 187 4 15  | 12 40 0   | M 87     |
| 2667 | HME310 | 18 539 | 52243538 | 539 | 52980818 | 0 0 0     | 0 0 0     | SLEW     |
| 2668 | HME310 | 19 539 | 53021778 | 539 | 53226578 | 345 10 58 | 8 36 18   | NGC 7469 |
| 2669 | HME310 | 20 539 | 53308498 | 539 | 54946898 | 345 10 58 | 8 36 18   | NGC 7469 |
| 2670 | HME310 | 21 539 | 54987858 | 539 | 55970898 | 187 4 15  | 12 40 0   | M 87     |
| 2671 | HME310 | 22 539 | 56011858 | 539 | 57896018 | 187 4 15  | 12 40 0   | M 87     |
| 2672 | HME310 | 23 539 | 57936978 | 539 | 58674258 | 0 0 0     | 0 0 0     | SLEW     |
| 2673 | HME310 | 24 539 | 58715218 | 539 | 59370578 | 345 10 58 | 8 36 18   | NGC 7469 |
| 2674 | HME310 | 25 539 | 59411538 | 539 | 60640338 | 345 10 58 | 8 36 18   | NGC 7469 |
| 2675 | HME310 | 26 539 | 60681298 | 539 | 61664338 | 0 0 0     | 0 0 0     | SLEW     |
| 2676 | HME310 | 27 539 | 61705298 | 539 | 63548498 | 187 4 15  | 12 40 0   | M 87     |
| 2677 | HME310 | 28 539 | 63589458 | 539 | 64367698 | 0 0 0     | 0 0 0     | SLEW     |
| 2678 | HME310 | 29 539 | 64408658 | 539 | 64613458 | 0 0 0     | 0 0 0     | SLEW     |
| 2679 | HME310 | 30 539 | 64654418 | 539 | 70675538 | 1 59 15   | 10 41 48  | III ZW2  |
| 2680 | HME310 | 31 539 | 70716498 | 539 | 76737618 | 1 59 15   | 10 41 48  | III ZW2  |
| 2681 | HME310 | 32 539 | 76778578 | 539 | 77188178 | 1 59 15   | 10 41 48  | III ZW2  |
| 2682 | HME310 | 33 539 |          |     |          |           |           |          |

|      |        |    |     |          |     |          |     |    |    |    |    |    |        |
|------|--------|----|-----|----------|-----|----------|-----|----|----|----|----|----|--------|
| 2721 | HME306 | 13 | 540 | 48951379 | 540 | 50999379 | 187 | 4  | 15 | 12 | 40 | 0  | M 87   |
| 2722 | HME306 | 16 | 540 | 51040339 | 540 | 51695699 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW   |
| 2723 | HME306 | 17 | 540 | 51736659 | 540 | 52187219 | 325 | 10 | 58 | 43 | 21 | 18 | SS CYG |
| 2724 | HME306 | 18 | 540 | 52228179 | 540 | 53866579 | 325 | 10 | 58 | 43 | 21 | 18 | SS CYG |
| 2725 | HME306 | 19 | 540 | 53907539 | 540 | 54685779 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW   |
| 2726 | HME306 | 20 | 540 | 54726739 | 540 | 56692819 | 187 | 4  | 15 | 12 | 40 | 0  | M 87   |
| 2727 | HME306 | 21 | 540 | 56733779 | 540 | 57389139 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW   |
| 2728 | HME306 | 22 | 540 | 57430099 | 540 | 58249299 | 325 | 10 | 58 | 43 | 21 | 18 | SS CYG |
| 2729 | HME306 | 23 | 540 | 58290259 | 540 | 59560019 | 325 | 10 | 58 | 43 | 21 | 18 | SS CYG |
| 2730 | HME306 | 24 | 540 | 59600979 | 540 | 60256339 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW   |
| 2731 | HME306 | 25 | 540 | 60297299 | 540 | 63533139 | 186 | 38 | 15 | 2  | 19 | 43 | 3C 273 |
| 2732 | HME306 | 26 | 540 | 63574099 | 540 | 69595219 | 186 | 38 | 15 | 2  | 19 | 43 | 3C 273 |
| 2733 | HME306 | 27 | 540 | 69636179 | 540 | 75616339 | 186 | 38 | 15 | 2  | 19 | 43 | 3C CYG |
| 2734 | HME306 | 28 | 540 | 75657299 | 540 | 80449619 | 186 | 38 | 15 | 2  | 19 | 43 | 3C CYG |
| 2735 | HME306 | 29 | 540 | 80490579 | 540 | 81391699 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW   |
| 2736 | HME306 | 30 | 540 | 81432659 | 540 | 82661459 | 9   | 49 | 45 | -9 | 34 | 0  | A 85   |
| 2737 | HME306 | 31 | 540 | 82702419 | 540 | 83849299 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW   |
| 2738 | HME306 | 32 | 540 | 83890259 | 540 | 84176979 | 186 | 57 | 30 | 12 | 42 | 22 | VIRGO  |
| 2739 | HME306 | 33 | 540 | 84217939 | 540 | 85487699 | 186 | 57 | 30 | 12 | 42 | 22 | VIRGO  |
| 2740 | HME306 | 34 | 540 | 85528659 | 540 | 86306899 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW   |
| 2741 | HME306 | 35 | 540 | 86347859 | 541 | 1832019  | 9   | 49 | 45 | -9 | 34 | 0  | A 85   |
| 2742 | HME308 | 1  | 541 | 42259540 | 541 | 44266580 | 186 | 57 | 30 | 12 | 42 | 22 | VIRGO  |
| 2743 | HME308 | 2  | 541 | 44307540 | 541 | 44921940 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW   |
| 2744 | HME308 | 3  | 541 | 45085780 | 541 | 47092820 | 325 | 10 | 58 | 43 | 21 | 18 | SS CYG |
| 2745 | HME308 | 4  | 541 | 47133780 | 541 | 47871060 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW   |
| 2746 | HME308 | 5  | 541 | 47912020 | 541 | 49960020 | 186 | 57 | 30 | 12 | 42 | 22 | VIRGO  |
| 2747 | HME308 | 6  | 541 | 50000980 | 541 | 50615380 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW   |
| 2748 | HME308 | 7  | 541 | 50656340 | 541 | 51065940 | 325 | 10 | 58 | 43 | 21 | 18 | SS CYG |
| 2749 | HME308 | 8  | 541 | 51106900 | 541 | 52786260 | 325 | 10 | 58 | 43 | 21 | 18 | SS CYG |
| 2750 | HME308 | 9  | 541 | 52827220 | 541 | 53564500 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW   |
| 2751 | HME308 | 10 | 541 | 53605460 | 541 | 55612500 | 186 | 57 | 30 | 12 | 42 | 22 | VIRGO  |
| 2752 | HME308 | 11 | 541 | 55653460 | 541 | 56308820 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW   |
| 2753 | HME308 | 12 | 541 | 56349780 | 541 | 58479700 | 325 | 10 | 58 | 43 | 21 | 18 | SS CYG |
| 2754 | HME308 | 13 | 541 | 58520660 | 541 | 59176020 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW   |
| 2755 | HME308 | 14 | 541 | 59216980 | 541 | 59831380 | 0</ |    |    |    |    |    |        |

|      |        |    |     |          |     |          |     |    |    |     |    |    |         |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|---------|
| 2801 | HME309 | 20 | 542 | 50067541 | 542 | 51787861 | 325 | 39 | 12 | 38  | 2  | 28 | CYG X-2 |
| 2802 | HME309 | 21 | 542 | 51828821 | 542 | 52443221 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2803 | HME309 | 22 | 542 | 52484181 | 542 | 54532181 | 186 | 57 | 30 | 12  | 42 | 22 | VIRGO   |
| 2804 | HME309 | 23 | 542 | 54573141 | 542 | 55105621 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2805 | HME309 | 24 | 542 | 55842901 | 542 | 57481301 | 325 | 39 | 12 | 38  | 5  | 28 | CYG X-2 |
| 2806 | HME309 | 25 | 542 | 57522261 | 542 | 58136661 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2807 | HME309 | 26 | 542 | 58177621 | 542 | 60225621 | 186 | 57 | 30 | 12  | 42 | 22 | VIRGO   |
| 2808 | HME309 | 27 | 542 | 60266581 | 542 | 60921941 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2809 | HME309 | 28 | 542 | 60962901 | 542 | 61331541 | 20  | 27 | 45 | -59 | 4  | 0  | FAIR 9  |
| 2810 | HME309 | 29 | 542 | 61372501 | 542 | 67352661 | 20  | 27 | 45 | -59 | 4  | 0  | FAIR 9  |
| 2811 | HME309 | 30 | 542 | 70916182 | 542 | 71202902 | 20  | 27 | 45 | -59 | 4  | 0  | FAIR 9  |
| 2812 | HME309 | 31 | 542 | 71243862 | 542 | 74848342 | 20  | 27 | 45 | -59 | 4  | 0  | FAIR 9  |
| 2813 | HME309 | 32 | 542 | 74889302 | 542 | 75585622 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2814 | HME309 | 33 | 542 | 75626582 | 542 | 77797462 | 186 | 57 | 30 | 12  | 42 | 22 | VIRGO   |
| 2815 | HME309 | 34 | 542 | 77838422 | 542 | 78616662 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2816 | HME309 | 35 | 542 | 78657622 | 542 | 80214102 | 325 | 39 | 12 | 38  | 5  | 28 | CYG X-2 |
| 2817 | HME309 | 36 | 542 | 80255062 | 542 | 80910422 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2818 | HME309 | 37 | 542 | 81033302 | 542 | 83449942 | 186 | 57 | 30 | 12  | 42 | 22 | VIRGO   |
| 2819 | HME309 | 38 | 542 | 83490902 | 542 | 84269142 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2820 | HME309 | 39 | 542 | 84310102 | 542 | 85907542 | 325 | 10 | 58 | 43  | 21 | 18 | SS CYG  |
| 2821 | HME311 | 1  | 560 | 85958764 | 560 | 86204524 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2822 | HME311 | 2  | 560 | 86245484 | 561 | 1238124  | 206 | 38 | 24 | 26  | 50 | 36 | A1795   |
| 2823 | HME311 | 3  | 561 | 1279084  | 561 | 2425964  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2824 | HME311 | 4  | 561 | 2466924  | 561 | 4023404  | 48  | 0  | 0  | -22 | 46 | 49 | 0311-22 |
| 2825 | HME311 | 5  | 561 | 4064364  | 561 | 4801644  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2826 | HME311 | 6  | 561 | 4883564  | 561 | 6767724  | 206 | 38 | 24 | 26  | 50 | 36 | A 1795  |
| 2827 | HME311 | 7  | 561 | 6808684  | 561 | 7955564  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2828 | HME311 | 8  | 561 | 7996524  | 561 | 9716844  | 48  | 0  | 0  | -22 | 46 | 49 | 0311-22 |
| 2829 | HME311 | 9  | 561 | 9757804  | 561 | 10044524 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2830 | HME311 | 10 | 561 | 10085484 | 561 | 10536044 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2831 | HME311 | 11 | 561 | 10577004 | 561 | 12461164 | 206 | 38 | 24 | 26  | 50 | 36 | A 1795  |
| 2832 | HME311 | 12 | 561 | 12502124 | 561 | 13649004 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2833 | HME311 | 13 | 561 | 13689964 | 561 | 15410284 | 48  | 0  | 0  | -22 | 46 | 49 | 0311-22 |
| 2834 | HME311 | 14 | 561 | 15451244 | 561 | 16229484 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2835 | HME311 | 15 | 561 | 16270444 | 561 | 16925804 | 206 | 38 | 24 | 26  | 50 | 36 | A 1795  |
| 2836 | HME311 | 16 | 561 | 16966764 | 561 | 18154604 | 206 | 38 | 24 | 26  | 50 | 36 | A 1795  |
| 2837 | HME311 | 17 | 561 | 18195564 | 561 | 18728044 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2838 | HME311 | 18 | 561 | 18769004 | 561 | 22209644 | 169 | 43 | 45 | -60 | 19 | 4  | CEN X-3 |
| 2839 | HME311 | 19 | 561 | 22250604 | 561 | 28271724 | 169 | 43 | 45 | -60 | 19 | 4  | CEN X-3 |
| 2840 | HME311 | 20 | 561 | 28312684 | 561 | 29336684 | 169 | 43 | 45 | -60 | 19 | 4  | CEN X-3 |
| 2841 | HME311 | 21 | 561 | 29500524 | 561 | 34333804 | 169 | 43 | 45 | -60 | 19 | 4  | CEN X-3 |
| 2842 | HME311 | 22 | 561 | 34374764 | 561 | 40477804 | 169 | 43 | 45 | -60 | 19 | 4  | CEN X-3 |
| 2843 | HME311 | 23 | 561 | 40518764 | 561 | 42484845 | 169 | 43 | 45 | -60 | 19 | 4  | CEN X-3 |
| 2844 | HME311 | 24 | 561 | 42525805 | 561 | 42730605 | 169 | 43 | 45 | -60 | 19 | 4  | CEN X-3 |
| 2845 | HME311 | 25 | 561 | 42771565 | 561 | 43017325 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2846 | HME311 | 26 | 561 | 43058285 | 561 | 48956525 | 140 | 21 | 15 | -63 | 4  | 46 | 0921-63 |
| 2847 | HME312 | 1  | 561 | 48997485 | 561 | 53175405 | 140 | 21 | 15 | -63 | 4  | 46 | 0921-63 |
| 2848 | HME312 | 2  | 561 | 53216365 | 561 | 53462125 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2849 | HME312 | 3  | 561 | 53503085 | 561 | 55059565 | 184 | 57 | 12 | -62 | 29 | 36 | 301-2   |
| 2850 | HME312 | 4  | 561 | 55100525 | 561 | 57394285 | 184 | 57 | 12 | -62 | 29 | 36 | 301-2   |
| 2851 | HME312 | 5  | 561 | 57435245 | 561 | 57558125 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2852 | HME312 | 6  | 561 | 57599085 | 561 | 59810925 | 176 | 23 | 49 | -61 | 55 | 48 | 1145-61 |
| 2853 | HME312 | 7  | 561 | 59851885 | 561 | 60097645 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2854 | HME312 | 8  | 561 | 60138605 | 561 | 61121645 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2855 | HME312 | 9  | 561 | 61162605 | 561 | 66282605 | 139 | 43 | 54 | -54 | 59 | 33 | 0918-55 |
| 2856 | HME312 | 10 | 561 | 66323565 | 561 | 66569325 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2857 | HME312 | 11 | 561 | 66610285 | 561 | 67101805 | 169 | 43 | 45 | -60 | 19 | 5  | CEN X-3 |
| 2858 | HME312 | 12 | 561 | 67142765 | 561 | 73163885 | 169 | 43 | 45 | -60 | 19 | 5  | CEN X-3 |
| 2859 | HME312 | 13 | 561 | 73204845 | 561 | 73901165 | 169 | 43 | 45 | -60 | 19 | 5  | CEN X-3 |
| 2860 | HME312 | 14 | 561 | 73942125 | 561 | 74065005 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2861 | HME312 | 15 | 561 | 74105965 | 561 | 79225965 | 176 | 23 | 50 | -61 | 55 | 49 | 1145-61 |
| 2862 | HME312 | 16 | 561 | 79266925 | 561 | 84059245 | 176 | 23 | 50 | -60 | 55 | 49 | 1145-61 |
| 2863 | HME312 | 17 | 561 | 84100205 | 562 | 3721325  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2864 | HME312 | 18 | 562 | 3762285  | 562 | 9783405  | 126 | 43 | 49 | -61 | 55 | 49 | 1145-61 |
| 2865 | HME312 | 19 | 562 | 9824365  | 562 | 11667565 | 126 | 43 | 49 | -61 | 55 | 49 | 1145-61 |
| 2866 | HME312 | 20 | 562 | 11708525 | 562 | 11954285 | 126 | 43 | 49 | -61 | 55 | 49 | 1145-61 |
| 2867 | HME312 | 21 | 562 | 11995245 | 562 | 15845485 | 126 | 43 | 49 | -61 | 55 | 49 | 1145 61 |
| 2868 | HME312 | 22 | 562 | 15886445 | 562 | 18917485 | 126 | 43 | 49 | -61 | 55 | 49 | 1145-61 |
| 2869 | HME312 | 23 | 562 | 18958445 | 562 | 19122285 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2870 | HME312 | 24 | 562 | 19163245 | 562 | 21088365 | 169 | 43 | 45 | -61 | 19 | 4  | CEN X-3 |
| 2871 | HME312 | 25 | 562 | 21129325 | 562 | 27150446 | 169 | 43 | 45 | -61 | 19 | 4  | CEN X-3 |
| 2872 | HME312 | 26 | 562 | 27191406 | 562 | 28543086 | 169 | 43 | 45 | -61 | 19 | 4  | CEN X-3 |
| 2873 | HME312 | 27 | 562 | 28584046 | 562 | 28870766 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2874 | HME312 | 28 | 562 | 28911726 | 562 | 33212526 | 139 | 43 | 54 | -54 | 59 | 33 | 0918-55 |
| 2875 | HME312 | 29 | 562 | 33253486 | 562 | 34236526 | 139 | 43 | 54 | -54 | 59 | 33 | 0918-55 |
| 2876 | HME312 | 30 | 562 | 34277486 | 562 | 34769006 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2877 | HME313 | 1  | 562 | 34809966 | 562 | 37144686 | 48  | 0  | 0  | -22 | 46 | 49 | 0311-22 |
| 2878 | HME313 | 2  | 562 | 37185646 | 562 | 38291566 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 2879 | HME313 | 3  | 562 | 38332526 | 562 | 39397486 | 206 | 38 | 24 | 26  | 50 | 36 | A 1795  |
| 2880 | HME313 | 4  | 562 | 39438446 | 562 | 39929966 | 206 | 38 | 24 | 26  | 50 | 36 | A 1795  |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 2881 | HME313 | 5  | 562 | 39970926 | 562 | 40462446 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2882 | HME313 | 6  | 562 | 40585326 | 562 | 40749166 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2883 | HME313 | 7  | 562 | 40831086 | 562 | 41076846 | 48  | 0  | 0  | -22 | 46 | 49 | 0311-22  |
| 2884 | HME313 | 8  | 562 | 41117806 | 562 | 42674286 | 48  | 0  | 0  | -22 | 46 | 49 | 0311-22  |
| 2885 | HME313 | 9  | 562 | 42715246 | 562 | 43862126 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2886 | HME313 | 10 | 562 | 43903086 | 562 | 45623406 | 206 | 38 | 24 | 26  | 50 | 36 | A 1795   |
| 2887 | HME313 | 11 | 562 | 45664366 | 562 | 46483566 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2888 | HME313 | 12 | 562 | 46524526 | 562 | 48367726 | 48  | 0  | 0  | -22 | 46 | 49 | 0311-22  |
| 2889 | HME313 | 13 | 562 | 48408686 | 562 | 49514606 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2890 | HME313 | 14 | 562 | 49555566 | 562 | 51316846 | 206 | 38 | 24 | 26  | 50 | 36 | A 1795   |
| 2891 | HME313 | 15 | 562 | 51357806 | 562 | 52177006 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2892 | HME313 | 16 | 562 | 52217966 | 562 | 52914286 | 48  | 0  | 0  | -22 | 46 | 49 | 0311-22  |
| 2893 | HME313 | 17 | 562 | 53037166 | 562 | 54061166 | 48  | 0  | 0  | -22 | 46 | 49 | 0311-22  |
| 2894 | HME313 | 18 | 562 | 54388846 | 562 | 55208046 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2895 | HME313 | 19 | 562 | 55249006 | 562 | 57010286 | 206 | 38 | 24 | 26  | 50 | 36 | A 1795   |
| 2896 | HME313 | 20 | 562 | 57051246 | 562 | 57870446 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2897 | HME313 | 21 | 562 | 57911406 | 562 | 59754606 | 48  | 0  | 0  | -22 | 46 | 49 | 0311-22  |
| 2898 | HME313 | 22 | 562 | 59795566 | 562 | 60901486 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2899 | HME313 | 23 | 562 | 60942446 | 562 | 62703726 | 206 | 38 | 24 | 26  | 50 | 36 | A 1795   |
| 2900 | HME313 | 24 | 562 | 62744686 | 562 | 63563886 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2901 | HME313 | 25 | 562 | 63604846 | 562 | 65202286 | 40  | 0  | 0  | -22 | 38 | 50 | 0311-22  |
| 2902 | HME313 | 26 | 562 | 65243246 | 562 | 65734766 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2903 | HME313 | 27 | 562 | 65775726 | 562 | 66021486 | 169 | 43 | 45 | -60 | 19 | 4  | CEN X-3  |
| 2904 | HME313 | 28 | 562 | 66062446 | 562 | 72083566 | 169 | 43 | 45 | -69 | 19 | 4  | CEN X-3  |
| 2905 | HME313 | 29 | 562 | 72124526 | 562 | 73312366 | 169 | 43 | 45 | -69 | 19 | 4  | CEN X-3  |
| 2906 | HME313 | 30 | 562 | 73353326 | 562 | 73517166 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2907 | HME313 | 31 | 562 | 73558126 | 562 | 78145646 | 176 | 43 | 29 | -61 | 55 | 48 | 1145-61  |
| 2908 | HME313 | 32 | 562 | 78186606 | 562 | 82978926 | 176 | 23 | 49 | -61 | 55 | 48 | 1145-61  |
| 2909 | HME313 | 33 | 562 | 83019886 | 562 | 84330606 | 176 | 23 | 49 | -61 | 55 | 48 | 1145-61  |
| 2910 | HME313 | 34 | 562 | 84371566 | 562 | 84658286 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2911 | HME313 | 35 | 562 | 84699246 | 563 | 2600046  | 160 | 46 | 45 | -59 | 25 | 15 | ETA CAR  |
| 2912 | HME313 | 36 | 563 | 2641006  | 563 | 6450286  | 160 | 46 | 45 | -59 | 25 | 15 | ETA CAR  |
| 2913 | HME313 | 37 | 563 | 6614126  | 563 | 8662127  | 160 | 33 | 33 | -59 | 27 | 24 | HD 93162 |
| 2914 | HME313 | 38 | 563 | 8703087  | 563 | 14765167 | 160 | 33 | 33 | -59 | 27 | 24 | HD 93162 |
| 2915 | HME313 | 39 | 563 | 14806127 | 563 | 14969967 | 160 | 33 | 33 | -59 | 27 | 24 | HD 93162 |
| 2916 | HME313 | 40 | 563 | 15133807 | 563 | 17099887 | 160 | 33 | 33 | -59 | 27 | 24 | HD 93162 |
| 2917 | HME313 | 41 | 563 | 17140847 | 563 | 17837167 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2918 | HME313 | 42 | 563 | 17878127 | 563 | 20008047 | 5   | 33 | 45 | 63  | 53 | 45 | TYCHO #5 |
| 2919 | HME314 | 1  | 563 | 20049007 | 563 | 26029167 | 5   | 33 | 45 | 63  | 53 | 45 | TYCHO #5 |
| 2920 | HME314 | 2  | 563 | 26070127 | 563 | 28036207 | 5   | 33 | 45 | 63  | 53 | 45 | TYCHO #5 |
| 2921 | HME314 | 3  | 563 | 28077167 | 563 | 28322927 | 5   | 33 | 45 | 63  | 53 | 45 | TYCHO #5 |
| 2922 | HME314 | 4  | 563 | 28363887 | 563 | 28855407 | 5   | 33 | 45 | 63  | 53 | 45 | TYCHO #5 |
| 2923 | HME314 | 5  | 563 | 28896367 | 563 | 29019247 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2924 | HME314 | 6  | 563 | 29060207 | 563 | 32132207 | 13  | 25 | 24 | 60  | 26 | 46 | GAM CAS  |
| 2925 | HME314 | 7  | 563 | 32173167 | 563 | 33156207 | 13  | 25 | 24 | 60  | 26 | 46 | GAM CAS  |
| 2926 | HME314 | 8  | 563 | 33279087 | 563 | 38726767 | 13  | 25 | 24 | 60  | 26 | 46 | GAM CAS  |
| 2927 | HME314 | 9  | 563 | 38767727 | 563 | 39013487 | 13  | 25 | 24 | 60  | 26 | 46 | GAM CAS  |
| 2928 | HME314 | 10 | 563 | 39054447 | 563 | 40651887 | 13  | 25 | 24 | 60  | 26 | 46 | GAM CAS  |
| 2929 | HME314 | 11 | 563 | 40692847 | 563 | 42208367 | 13  | 25 | 24 | 60  | 26 | 46 | GAM CAS  |
| 2930 | HME314 | 12 | 563 | 42249327 | 563 | 42822767 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2931 | HME314 | 13 | 563 | 42863727 | 563 | 44461167 | 206 | 38 | 24 | 26  | 50 | 36 | A 1795   |
| 2932 | HME314 | 14 | 563 | 44502127 | 563 | 45608047 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2933 | HME314 | 15 | 563 | 45649007 | 563 | 46754927 | 23  | 30 | 15 | -18 | 27 | 59 | UV CETI  |
| 2934 | HME314 | 16 | 563 | 46795887 | 563 | 47246447 | 23  | 30 | 15 | -18 | 27 | 59 | UV CETI  |
| 2935 | HME314 | 17 | 563 | 47287407 | 563 | 48024687 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2936 | HME314 | 18 | 563 | 48065647 | 563 | 49540207 | 206 | 38 | 24 | 26  | 50 | 36 | A 1795   |
| 2937 | HME314 | 19 | 563 | 49622127 | 563 | 49990767 | 206 | 38 | 24 | 26  | 50 | 36 | A 1795   |
| 2938 | HME314 | 20 | 563 | 50031727 | 563 | 51137647 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2939 | HME314 | 21 | 563 | 51178607 | 563 | 52939887 | 23  | 30 | 15 | -18 | 27 | 59 | UV CETI  |
| 2940 | HME314 | 22 | 563 | 52980847 | 563 | 53718127 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2941 | HME314 | 23 | 563 | 53759087 | 563 | 55684207 | 206 | 38 | 24 | 26  | 50 | 36 | A 1795   |
| 2942 | HME314 | 24 | 563 | 55725167 | 563 | 56790127 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2943 | HME314 | 25 | 563 | 56831087 | 563 | 58633327 | 23  | 30 | 15 | -18 | 27 | 59 | UV CETI  |
| 2944 | HME314 | 26 | 563 | 58674287 | 563 | 58920047 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2945 | HME314 | 27 | 563 | 58961007 | 563 | 59411567 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2946 | HME314 | 28 | 563 | 59452527 | 563 | 61377647 | 206 | 38 | 24 | 26  | 50 | 36 | A 1795   |
| 2947 | HME314 | 29 | 563 | 61418607 | 563 | 61910127 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2948 | HME314 | 30 | 563 | 61951087 | 563 | 64900207 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2949 | HME314 | 31 | 563 | 64941167 | 563 | 70921327 | 5   | 43 | 45 | 63  | 50 | 0  | TYCHO #6 |
| 2950 | HME314 | 32 | 563 | 70962287 | 563 | 74566767 | 5   | 43 | 45 | 63  | 50 | 0  | TYCHO #6 |
| 2951 | HME314 | 33 | 563 | 74607727 | 563 | 74935407 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2952 | HME314 | 34 | 563 | 74976367 | 563 | 76983407 | 1   | 36 | 0  | 58  | 53 | 0  | BETA CAS |
| 2953 | HME314 | 35 | 563 | 77024367 | 563 | 81857648 | 1   | 36 | 0  | 58  | 53 | 0  | BETA CAS |
| 2954 | HME314 | 36 | 563 | 81898608 | 564 | 168048   | 1   | 36 | 0  | 58  | 53 | 0  | BETA CAS |
| 2955 | HME315 | 1  | 564 | 209008   | 564 | 454768   | 1   | 36 | 0  | 58  | 53 | 0  | BETA CAS |
| 2956 | HME315 | 2  | 564 | 495728   | 564 | 1560688  | 1   | 36 | 0  | 58  | 53 | 0  | BETA CAS |
| 2957 | HME315 | 3  | 564 | 1601648  | 564 | 6598768  | 1   | 36 | 0  | 58  | 53 | 0  | BETA CAS |
| 2958 | HME315 | 4  | 564 | 6639728  | 564 | 7254128  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2959 | HME315 | 5  | 564 | 7295088  | 564 | 7827568  | 206 | 38 | 24 | 26  | 50 | 36 | A 1795   |
| 2960 | HME315 | 6  | 564 | 7868528  | 564 | 9261168  | 206 | 38 | 24 | 26  | 50 | 36 | A 1795   |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 2961 | HME315 | 7  | 564 | 9302128  | 564 | 10408048 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2962 | HME315 | 8  | 564 | 10449008 | 564 | 12046448 | 23  | 30 | 15 | -18 | 28 | 60 | UV CETI  |
| 2963 | HME315 | 9  | 564 | 12087408 | 564 | 12824688 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2964 | HME315 | 10 | 564 | 12865648 | 564 | 13602928 | 206 | 38 | 24 | 26  | 50 | 36 | A 1795   |
| 2965 | HME315 | 11 | 564 | 13643888 | 564 | 14790768 | 206 | 38 | 24 | 26  | 50 | 36 | A 1795   |
| 2966 | HME315 | 12 | 564 | 14831728 | 564 | 15364208 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2967 | HME315 | 13 | 564 | 15405168 | 564 | 18886768 | 350 | 17 | 29 | 58  | 32 | 30 | CAS A    |
| 2968 | HME315 | 14 | 564 | 18927728 | 564 | 24907888 | 350 | 17 | 29 | 58  | 32 | 30 | CAS A    |
| 2969 | HME315 | 15 | 564 | 24948848 | 564 | 29986928 | 350 | 17 | 29 | 58  | 32 | 30 | CAS A    |
| 2970 | HME315 | 16 | 564 | 30027888 | 564 | 30724208 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2971 | HME315 | 17 | 564 | 30765168 | 564 | 31010928 | 206 | 38 | 24 | 26  | 50 | 36 | A 1795   |
| 2972 | HME315 | 18 | 564 | 31051888 | 564 | 32034928 | 206 | 38 | 24 | 26  | 50 | 36 | A 1795   |
| 2973 | HME315 | 19 | 564 | 32075888 | 564 | 33181808 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2974 | HME315 | 20 | 564 | 33222768 | 564 | 34779248 | 23  | 30 | 15 | -18 | 28 | 60 | UV CETI  |
| 2975 | HME315 | 21 | 564 | 34820208 | 564 | 35557488 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2976 | HME315 | 22 | 564 | 35598448 | 564 | 37523568 | 206 | 38 | 24 | 26  | 50 | 36 | A 1795   |
| 2977 | HME315 | 23 | 564 | 37564528 | 564 | 38670448 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2978 | HME315 | 24 | 564 | 38711408 | 564 | 39530608 | 23  | 30 | 15 | -18 | 28 | 60 | UV CETI  |
| 2979 | HME315 | 25 | 564 | 39571568 | 564 | 40472688 | 23  | 30 | 15 | -18 | 28 | 60 | UV CETI  |
| 2980 | HME315 | 26 | 564 | 40513648 | 564 | 41087088 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2981 | HME315 | 27 | 564 | 41128048 | 564 | 45224048 | 160 | 33 | 33 | -59 | 27 | 24 | HD 93162 |
| 2982 | HME315 | 28 | 564 | 45346928 | 564 | 45592688 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2983 | HME315 | 29 | 564 | 45633648 | 564 | 48214128 | 160 | 46 | 45 | -59 | 25 | 16 | ETA CAR  |
| 2984 | HME315 | 30 | 564 | 48296048 | 564 | 50917488 | 160 | 46 | 45 | -59 | 25 | 16 | ETA CAR  |
| 2985 | HME315 | 31 | 564 | 51040368 | 564 | 51777648 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2986 | HME315 | 32 | 564 | 51818608 | 564 | 53948528 | 160 | 46 | 45 | -59 | 25 | 16 | ETA CAR  |
| 2987 | HME315 | 33 | 564 | 53989488 | 564 | 54521968 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2988 | HME315 | 34 | 564 | 54562928 | 564 | 57798768 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2989 | HME315 | 35 | 564 | 57839728 | 564 | 59560048 | 206 | 38 | 24 | 26  | 50 | 36 | A 1795   |
| 2990 | HME315 | 36 | 564 | 59601008 | 564 | 60133488 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2991 | HME315 | 37 | 564 | 60174448 | 564 | 60338288 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2992 | HME315 | 38 | 564 | 60379248 | 564 | 63778929 | 13  | 25 | 5  | 60  | 26 | 47 | GAM CAS  |
| 2993 | HME315 | 39 | 564 | 63860849 | 564 | 69800049 | 13  | 25 | 5  | 60  | 26 | 47 | GAM CAS  |
| 2994 | HME315 | 40 | 564 | 69841009 | 564 | 70127729 | 13  | 25 | 5  | 60  | 26 | 47 | GAM CAS  |
| 2995 | HME315 | 41 | 564 | 70168689 | 564 | 75575409 | 13  | 25 | 5  | 60  | 26 | 47 | GAM CAS  |
| 2996 | HME315 | 42 | 564 | 75616369 | 564 | 75903089 | 13  | 25 | 5  | 60  | 26 | 47 | GAM CAS  |
| 2997 | HME315 | 43 | 564 | 75944049 | 564 | 76312689 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 2998 | HME316 | 1  | 564 | 76312689 | 564 | 83234929 | 193 | 23 | 57 | -5  | 31 | 8  | 3C 279   |
| 2999 | HME316 | 2  | 564 | 83275889 | 564 | 83890289 | 193 | 23 | 57 | -5  | 31 | 8  | 3C 279   |
| 3000 | HME316 | 3  | 571 | 85666938 | 571 | 86199418 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3001 | HME316 | 4  | 571 | 86240378 | 572 | 14787778 | 225 | 31 | 48 | 47  | 51 | 0  | 44 BOO   |
| 3002 | HME319 | 1  | 572 | 1519738  | 572 | 2216058  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3003 | HME319 | 2  | 572 | 2257018  | 572 | 4018298  | 67  | 39 | 0  | -61 | 33 | 0  | 0430-615 |
| 3004 | HME319 | 3  | 572 | 4059258  | 572 | 9957498  | 67  | 39 | 0  | -61 | 33 | 0  | 0430-615 |
| 3005 | HME319 | 4  | 572 | 9998458  | 572 | 11145338 | 67  | 39 | 0  | -61 | 33 | 0  | 0430-615 |
| 3006 | HME319 | 5  | 572 | 11186298 | 572 | 11432058 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3007 | HME319 | 6  | 572 | 11473018 | 572 | 16019578 | 90  | 0  | 0  | -66 | 33 | 29 | BCKGRD#1 |
| 3008 | HME319 | 7  | 572 | 16060538 | 572 | 21631098 | 90  | 0  | 0  | -66 | 33 | 29 | BCKGRD#1 |
| 3009 | HME319 | 8  | 572 | 21672058 | 572 | 22122618 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3010 | HME319 | 9  | 572 | 22163578 | 572 | 24211578 | 203 | 15 | 0  | -34 | 2  | 26 | 1333-33  |
| 3011 | HME319 | 10 | 572 | 24252538 | 572 | 24539258 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3012 | HME319 | 11 | 572 | 24580218 | 572 | 25276538 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3013 | HME319 | 12 | 572 | 25317498 | 572 | 26873978 | 43  | 55 | 0  | 13  | 31 | 0  | A 401    |
| 3014 | HME319 | 13 | 572 | 26914938 | 572 | 27611258 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3015 | HME319 | 14 | 572 | 27652218 | 572 | 29659258 | 203 | 15 | 0  | -34 | 2  | 26 | 1333-33  |
| 3016 | HME319 | 15 | 572 | 29700218 | 572 | 30601338 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3017 | HME319 | 16 | 572 | 30929018 | 572 | 32567418 | 43  | 55 | 0  | 13  | 31 | 0  | A 401    |
| 3018 | HME319 | 17 | 572 | 32608378 | 572 | 33304698 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3019 | HME319 | 18 | 572 | 33345658 | 572 | 35352698 | 203 | 15 | 0  | -34 | 2  | 26 | 1333-33  |
| 3020 | HME319 | 19 | 572 | 35393658 | 572 | 36376698 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3021 | HME319 | 20 | 572 | 36417658 | 572 | 36704378 | 203 | 15 | 0  | -34 | 2  | 26 | 1333-33  |
| 3022 | HME319 | 21 | 572 | 36786298 | 572 | 38260858 | 43  | 55 | 0  | 13  | 31 | 0  | A 401    |
| 3023 | HME319 | 22 | 572 | 38301818 | 572 | 38998138 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3024 | HME319 | 23 | 572 | 39039098 | 572 | 41046138 | 203 | 15 | 0  | -34 | 2  | 26 | 1333-33  |
| 3025 | HME319 | 24 | 572 | 41087098 | 572 | 41578618 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3026 | HME319 | 25 | 572 | 41619578 | 572 | 42766458 | 67  | 39 | 0  | -61 | 33 | 0  | 0430-615 |
| 3027 | HME319 | 26 | 572 | 42807418 | 572 | 48828538 | 67  | 39 | 0  | -61 | 33 | 0  | 0430-615 |
| 3028 | HME319 | 27 | 572 | 48869498 | 572 | 49770618 | 67  | 39 | 0  | -61 | 33 | 0  | 0430-615 |
| 3029 | HME319 | 28 | 572 | 49811578 | 572 | 50303098 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3030 | HME319 | 29 | 572 | 50344058 | 572 | 52637819 | 203 | 15 | 0  | -34 | 2  | 26 | 1333-33  |
| 3031 | HME319 | 30 | 572 | 52678779 | 572 | 53702779 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3032 | HME319 | 31 | 572 | 53743739 | 572 | 54890619 | 43  | 55 | 0  | 13  | 31 | 0  | A 401    |
| 3033 | HME319 | 32 | 572 | 54931579 | 572 | 55341179 | 43  | 55 | 0  | 13  | 31 | 0  | A 401    |
| 3034 | HME319 | 33 | 572 | 55382139 | 572 | 55955579 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3035 | HME319 | 34 | 572 | 55996539 | 572 | 58495099 | 225 | 31 | 48 | 47  | 51 | 0  | 44 BOO   |
| 3036 | HME319 | 35 | 572 | 58536059 | 572 | 59191419 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3037 | HME319 | 36 | 572 | 59232379 | 572 | 59723899 | 10  | 31 | 41 | 32  | 44 | 5  | 0042-323 |
| 3038 | HME319 | 37 | 572 | 59764859 | 572 | 60829819 | 10  | 31 | 41 | 32  | 44 | 5  | 0042-323 |
| 3039 | HME319 | 38 | 572 | 60870779 | 572 | 61362299 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3040 | HME319 | 39 | 572 | 61403259 | 572 | 63697019 | 225 | 31 | 48 | 47  | 51 | 0  | 44 BOO   |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 3041 | HME319 | 40 | 572 | 63737979 | 572 | 64393339 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3042 | HME319 | 41 | 572 | 64434299 | 572 | 64884859 | 10  | 31 | 41 | 32  | 44 | 5  | 0042-323 |
| 3043 | HME319 | 42 | 572 | 64925819 | 572 | 66523259 | 10  | 31 | 41 | 32  | 44 | 5  | 0042-323 |
| 3044 | HME319 | 43 | 572 | 66564219 | 572 | 67055739 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3045 | HME319 | 44 | 572 | 67096699 | 572 | 69390459 | 225 | 31 | 48 | 47  | 51 | 0  | 44 BOO   |
| 3046 | HME319 | 45 | 572 | 69431419 | 572 | 70086779 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3047 | HME319 | 46 | 572 | 70127739 | 572 | 71807099 | 10  | 31 | 41 | 32  | 44 | 5  | 0042-323 |
| 3048 | HME319 | 47 | 572 | 71848059 | 572 | 72216699 | 10  | 31 | 41 | 32  | 44 | 5  | 0042+323 |
| 3049 | HME319 | 48 | 572 | 72257659 | 572 | 72831099 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3050 | HME320 | 1  | 572 | 72872059 | 572 | 77869179 | 90  | 0  | 0  | -66 | 33 | 29 | BCKGRD#2 |
| 3051 | HME320 | 2  | 572 | 77910139 | 572 | 83193979 | 90  | 0  | 0  | -66 | 33 | 29 | BCKGRD#2 |
| 3052 | HME320 | 3  | 572 | 83234939 | 572 | 83726459 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3053 | HME320 | 4  | 572 | 83767419 | 572 | 83972219 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3054 | HME320 | 5  | 572 | 84013179 | 573 | 316539   | 192 | 25 | 15 | 28  | 58 | 48 | EX MUO   |
| 3055 | HME316 | 5  | 573 | 357499   | 573 | 808059   | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3056 | HME316 | 6  | 573 | 849019   | 573 | 2856059  | 67  | 39 | 0  | -61 | 33 | 0  | A0430615 |
| 3057 | HME316 | 7  | 573 | 2897019  | 573 | 8836219  | 67  | 39 | 0  | -61 | 33 | 0  | A0430615 |
| 3058 | HME316 | 8  | 573 | 8877179  | 573 | 10187899 | 67  | 39 | 0  | -61 | 33 | 0  | A0430615 |
| 3059 | HME316 | 9  | 573 | 10228859 | 573 | 10884219 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3060 | HME316 | 10 | 573 | 10925179 | 573 | 12317819 | 309 | 30 | 35 | 57  | 25 | 12 | VW CER   |
| 3061 | HME316 | 11 | 573 | 12358779 | 573 | 14939259 | 309 | 30 | 35 | 57  | 25 | 12 | VW CER   |
| 3062 | HME316 | 12 | 573 | 14980219 | 573 | 23417979 | 309 | 30 | 35 | 57  | 25 | 12 | VW CER   |
| 3063 | HME316 | 13 | 573 | 23458939 | 573 | 26121339 | 309 | 30 | 35 | 57  | 25 | 12 | VW CER   |
| 3064 | HME316 | 14 | 573 | 26162299 | 573 | 26367099 | 309 | 30 | 35 | 57  | 25 | 12 | VW CER   |
| 3065 | HME316 | 15 | 573 | 26408059 | 573 | 29521019 | 309 | 30 | 35 | 57  | 25 | 12 | VW CER   |
| 3066 | HME316 | 16 | 573 | 29561979 | 573 | 32142459 | 309 | 30 | 35 | 57  | 25 | 12 | VW CER   |
| 3067 | HME316 | 17 | 573 | 32183419 | 573 | 32593019 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3068 | HME316 | 18 | 573 | 32633979 | 573 | 34722940 | 225 | 31 | 48 | 47  | 51 | 0  | 44 BOO   |
| 3069 | HME316 | 19 | 573 | 34763900 | 573 | 35378300 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3070 | HME316 | 20 | 573 | 35419260 | 573 | 35705980 | 10  | 31 | 41 | 32  | 44 | 5  | 2A004232 |
| 3071 | HME316 | 21 | 573 | 35746940 | 573 | 37016700 | 10  | 31 | 41 | 32  | 44 | 5  | 2A004232 |
| 3072 | HME316 | 22 | 573 | 37057660 | 573 | 37549180 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3073 | HME316 | 23 | 573 | 37590140 | 573 | 39883900 | 225 | 31 | 48 | 47  | 51 | 0  | 44 BOO   |
| 3074 | HME316 | 24 | 573 | 39924860 | 573 | 40662140 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3075 | HME316 | 25 | 573 | 40703100 | 573 | 41645180 | 67  | 39 | 0  | -69 | 33 | 0  | A0430-61 |
| 3076 | HME316 | 26 | 573 | 41686140 | 573 | 43775100 | 67  | 39 | 0  | -69 | 33 | 0  | A0430-61 |
| 3077 | HME316 | 27 | 573 | 43857020 | 573 | 48034940 | 67  | 39 | 0  | -69 | 33 | 0  | A0430-61 |
| 3078 | HME316 | 28 | 573 | 48075900 | 573 | 48690300 | 67  | 39 | 0  | -61 | 33 | 0  | A0430-61 |
| 3079 | HME316 | 29 | 573 | 48731260 | 573 | 49222780 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3080 | HME316 | 30 | 573 | 49263740 | 573 | 51516540 | 192 | 25 | 15 | -28 | 58 | 48 | EX HYD   |
| 3081 | HME316 | 31 | 573 | 51557500 | 573 | 52540540 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3082 | HME316 | 32 | 573 | 52581500 | 573 | 53769340 | 43  | 50 | 0  | 13  | 31 | 0  | A 401    |
| 3083 | HME316 | 33 | 573 | 53810300 | 573 | 54178940 | 43  | 55 | 0  | 13  | 31 | 0  | A 401    |
| 3084 | HME316 | 34 | 573 | 54219900 | 573 | 54916220 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3085 | HME316 | 35 | 573 | 54957180 | 573 | 56923260 | 192 | 25 | 15 | -28 | 58 | 48 | EX HYD   |
| 3086 | HME316 | 36 | 573 | 56964220 | 573 | 57988220 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3087 | HME316 | 37 | 573 | 58029180 | 573 | 59872380 | 43  | 55 | 0  | 13  | 31 | 0  | A 401    |
| 3088 | HME316 | 38 | 573 | 59913340 | 573 | 60609660 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3089 | HME316 | 39 | 573 | 60650620 | 573 | 61101180 | 192 | 25 | 15 | -28 | 58 | 48 | EX HYD   |
| 3090 | HME316 | 40 | 573 | 61142140 | 573 | 62616700 | 192 | 25 | 15 | -28 | 58 | 48 | EX HYD   |
| 3091 | HME316 | 41 | 573 | 62657660 | 573 | 63681660 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3092 | HME316 | 42 | 573 | 63722620 | 573 | 64623740 | 43  | 55 | 0  | 13  | 31 | 0  | A 401    |
| 3093 | HME316 | 43 | 573 | 64664700 | 573 | 65565820 | 43  | 55 | 0  | 13  | 31 | 0  | A 401    |
| 3094 | HME317 | 1  | 573 | 65606780 | 573 | 66303100 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3095 | HME317 | 2  | 573 | 66344060 | 573 | 68310140 | 92  | 25 | 15 | -28 | 58 | 48 | EX HYD   |
| 3096 | HME317 | 3  | 573 | 68351100 | 573 | 69375100 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3097 | HME317 | 4  | 573 | 69416060 | 573 | 69825660 | 43  | 55 | 0  | 13  | 31 | 0  | A 401    |
| 3098 | HME317 | 5  | 573 | 69866620 | 573 | 71259260 | 43  | 55 | 0  | 13  | 31 | 0  | A 401    |
| 3099 | HME317 | 7  | 573 | 71996540 | 573 | 74003580 | 192 | 25 | 15 | -28 | 58 | 48 | EX HYD   |
| 3100 | HME317 | 8  | 573 | 74044540 | 573 | 75068540 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3101 | HME317 | 9  | 573 | 75109500 | 573 | 76747900 | 43  | 55 | 0  | 13  | 31 | 0  | A 401    |
| 3102 | HME317 | 10 | 573 | 76788860 | 573 | 76952700 | 43  | 55 | 0  | 13  | 31 | 0  | A 401    |
| 3103 | HME317 | 11 | 573 | 76993660 | 573 | 77689980 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3104 | HME317 | 12 | 573 | 77730940 | 573 | 79697020 | 192 | 25 | 15 | -28 | 58 | 48 | EX HYD   |
| 3105 | HME317 | 13 | 573 | 79737980 | 573 | 80721020 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3106 | HME317 | 14 | 573 | 80761980 | 573 | 81990780 | 43  | 55 | 0  | 13  | 31 | 0  | A 401    |
| 3107 | HME317 | 15 | 573 | 82031740 | 573 | 82605180 | 43  | 55 | 0  | 13  | 31 | 0  | A 401    |
| 3108 | HME317 | 16 | 573 | 82646140 | 573 | 83342460 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3109 | HME317 | 17 | 573 | 83383420 | 573 | 85390460 | 192 | 25 | 15 | -28 | 58 | 48 | EX HYD   |
| 3110 | HME317 | 18 | 573 | 85431420 | 574 | 14460    | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3111 | HME317 | 19 | 574 | 55420    | 574 | 1652860  | 43  | 55 | 0  | 13  | 31 | 0  | A 401    |
| 3112 | HME317 | 20 | 574 | 1775740  | 574 | 2431100  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3113 | HME317 | 21 | 574 | 2472060  | 574 | 7673980  | 246 | 43 | 51 | 39  | 39 | 36 | A 2199   |
| 3114 | HME317 | 22 | 574 | 7714940  | 574 | 13408380 | 246 | 43 | 51 | 39  | 39 | 36 | A 2199   |
| 3115 | HME317 | 23 | 574 | 13449340 | 574 | 13695101 | 246 | 43 | 51 | 39  | 39 | 36 | A 2199   |
| 3116 | HME317 | 24 | 574 | 13817981 | 574 | 16357501 | 246 | 43 | 51 | 39  | 39 | 36 | A 2199   |
| 3117 | HME317 | 25 | 574 | 16398461 | 574 | 16930941 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3118 | HME317 | 26 | 574 | 16971901 | 574 | 17545341 | 10  | 31 | 41 | 32  | 44 | 5  | A0042+32 |
| 3119 | HME317 | 27 | 574 | 17668221 | 574 | 19347581 | 10  | 31 | 41 | 32  | 44 | 5  | A0042+32 |
| 3120 | HME317 | 28 | 574 | 19388541 | 574 | 20002941 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |      |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|------|
| 3121 | HME317 | 29 | 574 | 20043901 | 574 | 21764221 | 225 | 31 | 48 | 47  | 51 | 0  | 44       | BOO  |
| 3122 | HME317 | 30 | 574 | 21805181 | 574 | 22337661 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3123 | HME317 | 31 | 574 | 22378621 | 574 | 24631421 | 10  | 31 | 41 | 32  | 44 | 5  | A0042+32 |      |
| 3124 | HME317 | 32 | 574 | 24672381 | 574 | 25327741 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3125 | HME317 | 33 | 574 | 25368701 | 574 | 27334781 | 225 | 31 | 48 | 47  | 51 | 0  | 44       | BOO  |
| 3126 | HME317 | 34 | 574 | 27498621 | 574 | 27990141 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3127 | HME317 | 35 | 574 | 28031101 | 574 | 29710461 | 10  | 31 | 41 | 32  | 44 | 5  | A0042+32 |      |
| 3128 | HME317 | 36 | 574 | 29792381 | 574 | 30324861 | 10  | 31 | 41 | 32  | 44 | 5  | A0042+32 |      |
| 3129 | HME317 | 37 | 574 | 30365821 | 574 | 31021181 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3130 | HME317 | 38 | 574 | 31062141 | 574 | 31881341 | 225 | 31 | 48 | 47  | 51 | 0  | 44       | BOO  |
| 3131 | HME317 | 39 | 574 | 32495741 | 574 | 33151101 | 225 | 31 | 48 | 47  | 51 | 0  | 44       | BOO  |
| 3132 | HME317 | 40 | 574 | 33192061 | 574 | 33765501 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3133 | HME317 | 41 | 574 | 33806461 | 574 | 36223101 | 43  | 55 | 0  | 13  | 31 | 0  | A        | 401  |
| 3134 | HME317 | 42 | 574 | 36264061 | 574 | 36837501 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3135 | HME317 | 43 | 574 | 36878461 | 574 | 40523901 | 246 | 43 | 51 | 39  | 39 | 36 | A        | 2199 |
| 3136 | HME318 | 1  | 574 | 40523901 | 574 | 46545021 | 246 | 43 | 51 | 39  | 39 | 36 | A        | 2199 |
| 3137 | HME318 | 2  | 574 | 46585981 | 574 | 49453181 | 246 | 43 | 51 | 39  | 39 | 36 | A        | 2199 |
| 3138 | HME318 | 3  | 574 | 49494141 | 574 | 49739901 | 246 | 43 | 51 | 39  | 39 | 36 | A        | 2199 |
| 3139 | HME318 | 4  | 574 | 49780861 | 574 | 50395261 | 246 | 43 | 51 | 39  | 39 | 36 | A        | 2199 |
| 3140 | HME318 | 5  | 574 | 50436221 | 574 | 51009661 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3141 | HME318 | 6  | 574 | 51050621 | 574 | 52566141 | 43  | 55 | 0  | 13  | 31 | 0  | A        | 401  |
| 3142 | HME318 | 7  | 574 | 53344381 | 574 | 54327421 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3143 | HME318 | 8  | 574 | 54368381 | 574 | 55965821 | 192 | 25 | 15 | -28 | 58 | 48 | EX       | MYO  |
| 3144 | HME318 | 9  | 574 | 56006781 | 574 | 56662141 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3145 | HME318 | 10 | 574 | 56703101 | 574 | 57481341 | 43  | 55 | 0  | 13  | 31 | 0  | A        | 401  |
| 3146 | HME318 | 11 | 574 | 57522301 | 574 | 58710141 | 43  | 55 | 0  | 13  | 31 | 0  | A        | 401  |
| 3147 | HME318 | 12 | 574 | 58751101 | 574 | 59775101 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3148 | HME318 | 13 | 574 | 59816061 | 574 | 61659261 | 192 | 25 | 15 | -28 | 58 | 48 | EX       | MYO  |
| 3149 | HME318 | 14 | 574 | 61700221 | 574 | 62396541 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3150 | HME318 | 15 | 574 | 62437501 | 574 | 63502461 | 43  | 55 | 0  | 13  | 31 | 0  | A        | 401  |
| 3151 | HME318 | 16 | 574 | 63543421 | 574 | 64403581 | 43  | 55 | 0  | 13  | 31 | 0  | A        | 401  |
| 3152 | HME318 | 17 | 574 | 64444541 | 574 | 65468541 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3153 | HME318 | 18 | 574 | 65509501 | 574 | 67352701 | 192 | 25 | 15 | -28 | 58 | 48 | EX       | MYO  |
| 3154 | HME318 | 19 | 574 | 67393661 | 574 | 68049021 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3155 | HME318 | 20 | 574 | 68089981 | 574 | 68704381 | 43  | 55 | 0  | 13  | 31 | 0  | A        | 401  |
| 3156 | HME318 | 21 | 574 | 68745341 | 574 | 70097021 | 43  | 55 | 0  | 13  | 31 | 0  | A        | 401  |
| 3157 | HME318 | 22 | 574 | 70137981 | 574 | 71161981 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3158 | HME318 | 23 | 574 | 71202941 | 574 | 73005181 | 192 | 25 | 15 | -28 | 58 | 48 | EX       | MYO  |
| 3159 | HME318 | 24 | 574 | 73046141 | 574 | 73742461 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3160 | HME318 | 25 | 574 | 73783421 | 574 | 75626621 | 43  | 55 | 0  | 13  | 31 | 0  | A        | 401  |
| 3161 | HME318 | 26 | 574 | 75667581 | 574 | 75790461 | 43  | 55 | 0  | 13  | 31 | 0  | A        | 401  |
| 3162 | HME318 | 27 | 574 | 75831421 | 574 | 76855421 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3163 | HME318 | 28 | 574 | 76896381 | 574 | 78698621 | 192 | 25 | 15 | -28 | 58 | 48 | EX       | MYO  |
| 3164 | HME318 | 29 | 574 | 78862461 | 574 | 80869501 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3165 | HME318 | 30 | 574 | 80910461 | 574 | 84760702 | 192 | 25 | 15 | -28 | 58 | 48 | EX       | MYO  |
| 3166 | HME318 | 31 | 574 | 84801662 | 574 | 84924542 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3167 | HME326 | 1  | 586 | 157836   | 586 | 690316   | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3168 | HME326 | 2  | 586 | 731276   | 586 | 2779276  | 202 | 21 | 0  | -31 | 25 | 48 | SC       | 1329 |
| 3169 | HME326 | 3  | 586 | 2861196  | 586 | 3762316  | 202 | 21 | 0  | -31 | 25 | 48 | SC       | 1329 |
| 3170 | HME326 | 4  | 586 | 3803276  | 586 | 4622476  | 67  | 49 | 30 | -13 | 22 | 5  | A        | 496  |
| 3171 | HME326 | 5  | 586 | 4663436  | 586 | 6424716  | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3172 | HME326 | 6  | 586 | 6465676  | 586 | 7080076  | 202 | 21 | 0  | -31 | 25 | 48 | SC       | 1329 |
| 3173 | HME326 | 7  | 586 | 7121036  | 586 | 8882316  | 202 | 21 | 0  | -31 | 25 | 48 | SC       | 1329 |
| 3174 | HME326 | 8  | 586 | 8923276  | 586 | 9209996  | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3175 | HME326 | 9  | 586 | 9250956  | 586 | 10070156 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3176 | HME326 | 10 | 586 | 10111116 | 586 | 12077196 | 67  | 49 | 30 | -13 | 22 | 5  | A        | 496  |
| 3177 | HME326 | 11 | 586 | 12118156 | 586 | 12773516 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3178 | HME326 | 12 | 586 | 12814476 | 586 | 14903436 | 202 | 21 | 0  | -31 | 25 | 48 | SC       | 1329 |
| 3179 | HME326 | 13 | 586 | 14944396 | 586 | 15763596 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3180 | HME326 | 14 | 586 | 15804556 | 586 | 17770636 | 67  | 49 | 30 | -13 | 22 | 5  | A        | 496  |
| 3181 | HME326 | 15 | 586 | 17811596 | 586 | 18466956 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3182 | HME326 | 16 | 586 | 18507916 | 586 | 20596876 | 202 | 21 | 0  | -31 | 25 | 48 | SC       | 1329 |
| 3183 | HME326 | 17 | 586 | 20637836 | 586 | 20965516 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3184 | HME326 | 18 | 586 | 21006476 | 586 | 21457036 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3185 | HME327 | 1  | 586 | 21497996 | 586 | 23464076 | 67  | 49 | 30 | -13 | 22 | 5  | A        | 496  |
| 3186 | HME327 | 2  | 586 | 23505036 | 586 | 24242316 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3187 | HME327 | 3  | 586 | 24283276 | 586 | 26986636 | 212 | 39 | 45 | -2  | 58 | 30 | A        | 5506 |
| 3188 | HME327 | 4  | 586 | 27027596 | 586 | 32393356 | 212 | 39 | 45 | -2  | 58 | 30 | A        | 5506 |
| 3189 | HME327 | 5  | 586 | 32434316 | 586 | 33089676 | 212 | 39 | 45 | -2  | 58 | 30 | A        | 5506 |
| 3190 | HME327 | 6  | 586 | 33130636 | 586 | 35137676 | 46  | 13 | 36 | 40  | 45 | 52 | ALGOL    |      |
| 3191 | HME327 | 7  | 586 | 35178636 | 586 | 35997836 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3192 | HME327 | 8  | 586 | 36038796 | 586 | 37759116 | 239 | 59 | 15 | 16  | 5  | 24 | A        | 2147 |
| 3193 | HME327 | 9  | 586 | 37800076 | 586 | 38414476 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3194 | HME327 | 10 | 586 | 38455436 | 586 | 40380556 | 46  | 13 | 36 | 40  | 45 | 52 | ALGOL    |      |
| 3195 | HME327 | 11 | 586 | 40421516 | 586 | 40585356 | 46  | 13 | 36 | 40  | 45 | 52 | ALGOL    |      |
| 3196 | HME327 | 12 | 586 | 40626316 | 586 | 41445516 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3197 | HME327 | 13 | 586 | 41486476 | 586 | 43452556 | 239 | 59 | 15 | 16  | 5  | 24 | A        | 2147 |
| 3198 | HME327 | 14 | 586 | 43493516 | 586 | 43903116 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3199 | HME327 | 15 | 586 | 43944076 | 586 | 44148876 | 0   | 0  | 0  | 0   | 0  | 0  | 0        | SLEW |
| 3200 | HME327 | 16 | 586 | 44189836 | 586 | 46278796 | 46  | 13 | 36 | 40  | 45 | 52 | ALGOL    |      |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 3201 | HME327 | 17 | 586 | 46319756 | 586 | 46975116 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3202 | HME327 | 18 | 586 | 47016076 | 586 | 49145996 | 239 | 59 | 15 | 16  | 5  | 24 | A 2147   |
| 3203 | HME327 | 19 | 586 | 49186956 | 586 | 49801356 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3204 | HME327 | 20 | 586 | 49842316 | 586 | 49965196 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3205 | HME327 | 21 | 586 | 50006156 | 586 | 51972236 | 46  | 13 | 36 | 40  | 45 | 52 | ALGOL    |
| 3206 | HME327 | 22 | 586 | 52013196 | 586 | 52832396 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3207 | HME327 | 23 | 586 | 52873356 | 586 | 54839436 | 239 | 59 | 15 | 16  | 5  | 24 | A 2147   |
| 3208 | HME327 | 24 | 586 | 54880396 | 586 | 55535756 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3209 | HME327 | 25 | 586 | 55576716 | 586 | 56068236 | 46  | 13 | 36 | 40  | 45 | 52 | ALGOL    |
| 3210 | HME327 | 26 | 586 | 56109196 | 586 | 57665676 | 46  | 13 | 36 | 40  | 45 | 52 | ALGOL    |
| 3211 | HME327 | 27 | 586 | 57706636 | 586 | 58402956 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3212 | HME327 | 28 | 586 | 58443916 | 586 | 61311116 | 212 | 39 | 45 | -2  | 58 | 30 | A 5506   |
| 3213 | HME327 | 29 | 586 | 61352076 | 586 | 67373197 | 212 | 39 | 45 | -2  | 58 | 30 | A 5506   |
| 3214 | HME327 | 30 | 586 | 67414157 | 586 | 72206477 | 212 | 39 | 45 | -2  | 58 | 30 | A 5506   |
| 3215 | HME327 | 31 | 586 | 72247437 | 586 | 73025677 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3216 | HME327 | 32 | 586 | 73066637 | 586 | 73394317 | 46  | 13 | 36 | 40  | 45 | 52 | ALGOL    |
| 3217 | HME327 | 33 | 586 | 73435277 | 586 | 74950797 | 46  | 13 | 36 | 40  | 45 | 52 | ALGOL    |
| 3218 | HME327 | 34 | 586 | 74991757 | 586 | 75729037 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3219 | HME327 | 35 | 586 | 75769997 | 586 | 77654157 | 243 | 2  | 0  | 26  | 26 | 0  | TON 256  |
| 3220 | HME327 | 36 | 586 | 77695117 | 586 | 78268557 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3221 | HME327 | 37 | 586 | 78309517 | 586 | 80480397 | 46  | 13 | 36 | 40  | 45 | 52 | ALGOL    |
| 3222 | HME327 | 38 | 586 | 80521357 | 586 | 81258637 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3223 | HME327 | 39 | 586 | 81299597 | 586 | 81954957 | 243 | 2  | 0  | 26  | 26 | 0  | TON 256  |
| 3224 | HME327 | 40 | 586 | 81995917 | 586 | 83347597 | 243 | 2  | 0  | 26  | 26 | 0  | TON 256  |
| 3225 | HME327 | 41 | 586 | 83388557 | 586 | 84043917 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3226 | HME327 | 42 | 586 | 84084877 | 586 | 85600397 | 50  | 53 | 15 | 28  | 32 | 32 | UX ARI   |
| 3227 | HME327 | 43 | 586 | 85682317 | 587 | 60557    | 50  | 53 | 15 | 28  | 32 | 32 | UX ARI   |
| 3228 | HME328 | 1  | 587 | 101517   | 587 | 920717   | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3229 | HME328 | 2  | 587 | 961677   | 587 | 1453197  | 243 | 2  | 0  | 26  | 26 | 0  | TON 256  |
| 3230 | HME328 | 3  | 587 | 1657997  | 587 | 2681997  | 243 | 2  | 0  | 26  | 26 | 0  | TON 256  |
| 3231 | HME328 | 4  | 587 | 2722957  | 587 | 3378317  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3232 | HME328 | 5  | 587 | 3419277  | 587 | 3542157  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3233 | HME328 | 6  | 587 | 3624077  | 587 | 5508237  | 50  | 53 | 15 | 28  | 32 | 32 | UX ARI   |
| 3234 | HME328 | 7  | 587 | 5549197  | 587 | 6368397  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3235 | HME328 | 8  | 587 | 6409357  | 587 | 8375437  | 243 | 2  | 0  | 26  | 26 | 0  | TON 256  |
| 3236 | HME328 | 9  | 587 | 8416397  | 587 | 9071757  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3237 | HME328 | 10 | 587 | 9112717  | 587 | 11201677 | 50  | 53 | 15 | 28  | 32 | 32 | UX ARI   |
| 3238 | HME328 | 11 | 587 | 11242637 | 587 | 12061837 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3239 | HME328 | 12 | 587 | 12102797 | 587 | 13782157 | 243 | 2  | 0  | 26  | 26 | 0  | TON 256  |
| 3240 | HME328 | 13 | 587 | 13823117 | 587 | 14068877 | 243 | 2  | 0  | 26  | 26 | 0  | TON 256  |
| 3241 | HME328 | 14 | 587 | 14109837 | 587 | 14765197 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3242 | HME328 | 15 | 587 | 14806157 | 587 | 16895117 | 50  | 53 | 15 | 28  | 32 | 32 | UX ARI   |
| 3243 | HME328 | 16 | 587 | 16936077 | 587 | 17673357 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3244 | HME328 | 17 | 587 | 17714317 | 587 | 19803277 | 212 | 39 | 45 | -2  | 58 | 30 | A 5506   |
| 3245 | HME328 | 18 | 587 | 19844237 | 587 | 25906317 | 212 | 39 | 45 | -2  | 58 | 30 | A 5506   |
| 3246 | HME328 | 19 | 587 | 25947277 | 587 | 29797517 | 212 | 39 | 45 | -2  | 58 | 30 | A 5506   |
| 3247 | HME328 | 20 | 587 | 29838477 | 587 | 30207117 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3248 | HME328 | 21 | 587 | 30248077 | 587 | 31353997 | 239 | 59 | 15 | 16  | 5  | 24 | A 2147   |
| 3249 | HME328 | 22 | 587 | 31394957 | 587 | 31927437 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3250 | HME328 | 23 | 587 | 31968397 | 587 | 32255117 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3251 | HME328 | 24 | 587 | 32296077 | 587 | 33893517 | 50  | 53 | 15 | 28  | 32 | 32 | UX ARI   |
| 3252 | HME328 | 25 | 587 | 33934477 | 587 | 34630797 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3253 | HME328 | 26 | 587 | 34671757 | 587 | 35900557 | 239 | 59 | 15 | 16  | 5  | 24 | A 2147   |
| 3254 | HME328 | 27 | 587 | 35941517 | 587 | 36719757 | 239 | 59 | 15 | 16  | 5  | 24 | A 2147   |
| 3255 | HME328 | 28 | 587 | 36760717 | 587 | 37620877 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3256 | HME328 | 29 | 587 | 37661837 | 587 | 39586957 | 50  | 53 | 15 | 28  | 32 | 32 | UX ARI   |
| 3257 | HME328 | 30 | 587 | 39627917 | 587 | 40283277 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3258 | HME328 | 31 | 587 | 40324237 | 587 | 42372237 | 50  | 53 | 15 | 28  | 32 | 32 | UX ARI   |
| 3259 | HME328 | 32 | 587 | 42413197 | 587 | 42822797 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3260 | HME328 | 33 | 587 | 42863757 | 587 | 43314317 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3261 | HME328 | 34 | 587 | 43355277 | 587 | 45280397 | 50  | 53 | 15 | 28  | 32 | 32 | UX ARI   |
| 3262 | HME328 | 35 | 587 | 45321357 | 587 | 45976718 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3263 | HME328 | 36 | 587 | 46017678 | 587 | 48065678 | 239 | 59 | 15 | 16  | 5  | 24 | A 2147   |
| 3264 | HME328 | 37 | 587 | 48106638 | 587 | 48843918 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3265 | HME328 | 38 | 587 | 48884878 | 587 | 49007758 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3266 | HME328 | 39 | 587 | 49048718 | 587 | 50973838 | 50  | 53 | 15 | 28  | 32 | 32 | UX ARI   |
| 3267 | HME328 | 40 | 587 | 51014798 | 587 | 51670158 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3268 | HME328 | 41 | 587 | 51711118 | 587 | 53759118 | 239 | 59 | 15 | 16  | 5  | 24 | A 2147   |
| 3269 | HME328 | 42 | 587 | 53800078 | 587 | 54701198 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3270 | HME328 | 43 | 587 | 54742158 | 587 | 54905998 | 50  | 53 | 15 | 28  | 32 | 32 | UX ARI   |
| 3271 | HME328 | 44 | 587 | 54946958 | 587 | 56667278 | 50  | 53 | 15 | 28  | 32 | 32 | UX ARI   |
| 3272 | HME328 | 45 | 587 | 56708238 | 587 | 57363598 | 239 | 59 | 15 | 16  | 5  | 24 | A 2147   |
| 3273 | HME328 | 46 | 587 | 57404558 | 587 | 59452558 | 239 | 59 | 15 | 16  | 5  | 24 | A 2147   |
| 3274 | HME328 | 47 | 587 | 59493518 | 587 | 60189838 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3275 | HME328 | 48 | 587 | 60230798 | 587 | 63671438 | 53  | 33 | 18 | 0   | 25 | 29 | HR 1099  |
| 3276 | HME328 | 49 | 587 | 63712398 | 587 | 68504718 | 53  | 33 | 18 | 0   | 25 | 29 | HR 1099  |
| 3277 | HME328 | 50 | 587 | 68545678 | 587 | 69160078 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3278 | HME329 | 1  | 587 | 69201038 | 587 | 71167118 | 224 | 42 | 30 | -41 | 55 | 0  | SN1006#1 |
| 3279 | HME329 | 2  | 587 | 71208078 | 587 | 72027278 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3280 | HME329 | 3  | 587 | 72068238 | 587 | 72313998 | 67  | 49 | 30 | -13 | 22 | 5  | A496     |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |        |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|--------|
| 3281 | HME329 | 4  | 587 | 72354958 | 587 | 73706638 | 67  | 49 | 30 | -13 | 22 | 5  | A        | 496    |
| 3282 | HME329 | 5  | 587 | 73747598 | 587 | 74402958 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3283 | HME329 | 6  | 587 | 74443918 | 587 | 76532878 | 224 | 42 | 30 | -41 | 55 | 0  | SN1006#1 |        |
| 3284 | HME329 | 7  | 587 | 76573838 | 587 | 77352078 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3285 | HME329 | 8  | 587 | 77393038 | 587 | 79400078 | 67  | 49 | 30 | -13 | 22 | 5  | A        | 496    |
| 3286 | HME329 | 9  | 587 | 79441038 | 587 | 80096398 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3287 | HME329 | 10 | 587 | 80137358 | 587 | 80792718 | 224 | 42 | 30 | -41 | 55 | 0  | SN1006#1 |        |
| 3288 | HME329 | 11 | 587 | 80833678 | 587 | 82185358 | 224 | 42 | 30 | -41 | 55 | 0  | SN1006#1 |        |
| 3289 | HME329 | 12 | 587 | 82226318 | 587 | 83045518 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3290 | HME329 | 13 | 587 | 83086478 | 587 | 85052558 | 67  | 49 | 30 | -13 | 22 | 2  | 5        | 496    |
| 3291 | HME329 | 14 | 587 | 85093518 | 587 | 85789838 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3292 | HME329 | 15 | 587 | 85830798 | 588 | 536718   | 224 | 42 | 30 | -41 | 55 | 0  | SN1006#1 |        |
| 3293 | HME320 | 6  | 588 | 577678   | 588 | 1478798  | 224 | 42 | 30 | -41 | 55 | 0  | SN1006#1 |        |
| 3294 | HME320 | 7  | 588 | 1519758  | 588 | 2338958  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3295 | HME320 | 8  | 588 | 2379918  | 588 | 2502798  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3296 | HME320 | 9  | 588 | 2584718  | 588 | 4345998  | 67  | 49 | 30 | -13 | 22 | 5  | A        | 496    |
| 3297 | HME320 | 10 | 588 | 4386958  | 588 | 5042318  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3298 | HME320 | 11 | 588 | 5083278  | 588 | 6639758  | 224 | 42 | 30 | -41 | 55 | 0  | SN1006#1 |        |
| 3299 | HME320 | 12 | 588 | 6680718  | 588 | 7172238  | 224 | 42 | 30 | -41 | 55 | 0  | SN1006#1 |        |
| 3300 | HME320 | 13 | 588 | 7213198  | 588 | 8032398  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3301 | HME320 | 14 | 588 | 8073358  | 588 | 10039438 | 67  | 49 | 30 | -13 | 22 | 5  | A        | 496    |
| 3302 | HME320 | 15 | 588 | 10080398 | 588 | 10735758 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3303 | HME320 | 16 | 588 | 10776718 | 588 | 12660878 | 224 | 42 | 30 | -41 | 55 | 0  | SN1006#1 |        |
| 3304 | HME320 | 17 | 588 | 12701838 | 588 | 12865678 | 224 | 42 | 30 | -41 | 55 | 0  | SN1006#1 |        |
| 3305 | HME320 | 18 | 588 | 12906638 | 588 | 13725838 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3306 | HME320 | 19 | 588 | 13766798 | 588 | 15732878 | 67  | 49 | 30 | -13 | 22 | 5  | A        | 496    |
| 3307 | HME320 | 20 | 588 | 15773838 | 588 | 16101518 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3308 | HME320 | 21 | 588 | 16142478 | 588 | 18763918 | 53  | 33 | 18 | 0   | 25 | 29 | HR       | 1099   |
| 3309 | HME320 | 22 | 588 | 18804878 | 588 | 24785038 | 53  | 33 | 18 | 0   | 25 | 29 | HR       | 1099   |
| 3310 | HME320 | 23 | 588 | 24825998 | 588 | 26300558 | 53  | 33 | 18 | 0   | 25 | 29 | HR       | 1099   |
| 3311 | HME320 | 24 | 588 | 26341518 | 588 | 26996878 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3312 | HME320 | 25 | 588 | 27037838 | 588 | 30273679 | 224 | 42 | 30 | -41 | 55 | 0  | SN1006#1 |        |
| 3313 | HME320 | 26 | 588 | 30314639 | 588 | 30806159 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3314 | HME320 | 27 | 588 | 30847119 | 588 | 31133839 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3315 | HME320 | 28 | 588 | 31174799 | 588 | 32813199 | 67  | 49 | 30 | -13 | 22 | 5  | A        | 496    |
| 3316 | HME320 | 29 | 588 | 32854159 | 588 | 33509519 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3317 | HME320 | 30 | 588 | 33550479 | 588 | 35434639 | 225 | 10 | 0  | -41 | 35 | 0  | SN1006#1 |        |
| 3318 | HME320 | 31 | 588 | 35475599 | 588 | 36540559 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3319 | HME320 | 32 | 588 | 36581519 | 588 | 38097039 | 50  | 53 | 15 | 28  | 32 | 32 | UX       | ARI    |
| 3320 | HME320 | 33 | 588 | 38219919 | 588 | 39039119 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3321 | HME320 | 34 | 588 | 39080079 | 588 | 40882319 | 225 | 10 | 0  | -41 | 35 | 0  | SN1006#1 |        |
| 3322 | HME321 | 1  | 588 | 40923279 | 588 | 41701519 | 50  | 53 | 15 | 28  | 32 | 37 | UX       | ARI    |
| 3323 | HME321 | 2  | 588 | 41742479 | 588 | 42029199 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3324 | HME321 | 3  | 588 | 42070159 | 588 | 43872399 | 50  | 53 | 15 | 28  | 32 | 32 | UX       | ARI    |
| 3325 | HME321 | 4  | 588 | 43913359 | 588 | 44732559 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3326 | HME321 | 5  | 588 | 44773519 | 588 | 46616719 | 225 | 10 | 0  | -41 | 35 | 0  | N        | 1006#2 |
| 3327 | HME321 | 6  | 588 | 46657679 | 588 | 47722639 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3328 | HME321 | 7  | 588 | 47845519 | 588 | 49524879 | 50  | 53 | 15 | 28  | 32 | 32 | UX       | ARI    |
| 3329 | HME321 | 8  | 588 | 49565839 | 588 | 50385039 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3330 | HME321 | 9  | 588 | 50425999 | 588 | 52801679 | 227 | 0  | 54 | 5   | 55 | 48 | A        | 2029   |
| 3331 | HME321 | 10 | 588 | 52842639 | 588 | 53825679 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3332 | HME321 | 11 | 588 | 53866639 | 588 | 53989519 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3333 | HME321 | 12 | 588 | 54030479 | 588 | 55423119 | 53  | 21 | 15 | 32  | 8  | 28 | NRAO     | 140    |
| 3334 | HME321 | 13 | 588 | 55464079 | 588 | 56242319 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3335 | HME321 | 14 | 588 | 56283279 | 588 | 58495119 | 206 | 37 | 0  | -30 | 3  | 42 | 1C       | 4329A  |
| 3336 | HME321 | 15 | 588 | 58536079 | 588 | 65089679 | 206 | 37 | 0  | -30 | 3  | 42 | 1C       | 4329A  |
| 3337 | HME321 | 16 | 588 | 65130639 | 588 | 69881999 | 206 | 37 | 0  | -30 | 3  | 42 | 1C       | 4329A  |
| 3338 | HME321 | 17 | 588 | 69922959 | 588 | 70332559 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3339 | HME321 | 18 | 588 | 70373519 | 588 | 71356559 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3340 | HME321 | 19 | 588 | 74305679 | 588 | 74879119 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3341 | HME321 | 20 | 588 | 74920079 | 588 | 76476559 | 243 | 2  | 0  | 26  | 26 | 0  | TON      | 256    |
| 3342 | HME321 | 21 | 588 | 76517519 | 588 | 77009039 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3343 | HME321 | 22 | 588 | 77049999 | 588 | 81227919 | 225 | 10 | 0  | -41 | 35 | 0  | N        | 1006#2 |
| 3344 | HME321 | 23 | 588 | 81268879 | 588 | 81965199 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3345 | HME321 | 24 | 588 | 82006159 | 588 | 83808399 | 53  | 33 | 18 | 0   | 25 | 29 | HR       | 1099   |
| 3346 | HME321 | 25 | 588 | 83849359 | 588 | 84545679 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3347 | HME321 | 26 | 588 | 84586639 | 588 | 84955279 | 239 | 59 | 15 | 16  | 5  | 24 | A        | 2147   |
| 3348 | HME321 | 27 | 588 | 85078159 | 589 | 767119   | 239 | 59 | 15 | 16  | 5  | 24 | A        | 2147   |
| 3349 | HME321 | 28 | 589 | 808079   | 589 | 1668239  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3350 | HME321 | 29 | 589 | 1709199  | 589 | 3306639  | 53  | 21 | 15 | 32  | 8  | 28 | NRAO     | 140    |
| 3351 | HME321 | 30 | 589 | 3347599  | 589 | 4043919  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3352 | HME321 | 31 | 589 | 4084879  | 589 | 5559439  | 227 | 0  | 54 | 5   | 55 | 48 | A        | 2029   |
| 3353 | HME321 | 32 | 589 | 5600399  | 589 | 6214799  | 227 | 0  | 54 | 5   | 55 | 48 | A        | 2029   |
| 3354 | HME321 | 33 | 589 | 6255759  | 589 | 6583439  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3355 | HME321 | 34 | 589 | 6624399  | 589 | 11539600 | 206 | 37 | 0  | -30 | 3  | 42 | 1C       | 4329A  |
| 3356 | HME321 | 35 | 589 | 11580560 | 589 | 17519760 | 206 | 37 | 0  | -30 | 3  | 42 | 1C       | 4329A  |
| 3357 | HME321 | 36 | 589 | 17642640 | 589 | 21656720 | 206 | 37 | 0  | -30 | 3  | 42 | 1C       | 4329A  |
| 3358 | HME321 | 37 | 589 | 21697680 | 589 | 22189200 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |
| 3359 | HME321 | 38 | 589 | 22230160 | 589 | 23295120 | 227 | 0  | 54 | 5   | 55 | 48 | A        | 2029   |
| 3360 | HME321 | 39 | 589 | 23336080 | 589 | 23581840 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |        |

|      |         |    |     |          |     |          |     |    |    |     |    |    |          |
|------|---------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 3361 | HME321  | 40 | 589 | 23622800 | 589 | 24278160 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3362 | HME321  | 41 | 589 | 24319120 | 589 | 25916560 | 53  | 21 | 15 | 32  | 8  | 28 | NRAO 140 |
| 3363 | HME321  | 42 | 589 | 25957520 | 589 | 26694800 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3364 | HME321  | 43 | 589 | 26735760 | 589 | 28456080 | 227 | 0  | 54 | 5   | 55 | 48 | A 2029   |
| 3365 | HME321  | 44 | 589 | 28497040 | 589 | 28701840 | 227 | 0  | 54 | 5   | 55 | 48 | A 2029   |
| 3366 | HME321  | 45 | 589 | 28742800 | 589 | 29316240 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3367 | HME321  | 46 | 589 | 29357200 | 589 | 31610000 | 53  | 21 | 15 | 32  | 8  | 28 | NRAO 140 |
| 3368 | HME322  | 1  | 589 | 31650960 | 589 | 32306320 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3369 | HME322  | 2  | 589 | 32347280 | 589 | 34354320 | 227 | 0  | 54 | 5   | 55 | 48 | A 2029   |
| 3370 | HME322  | 3  | 589 | 34395280 | 589 | 34518160 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3371 | HME322  | 4  | 589 | 34559120 | 589 | 35009680 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3372 | HME322  | 5  | 589 | 35050640 | 589 | 37262480 | 53  | 21 | 15 | 32  | 8  | 28 | NRAO 140 |
| 3373 | HME322  | 6  | 589 | 37303440 | 589 | 37999760 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3374 | HME322  | 7  | 589 | 38040720 | 589 | 39679120 | 227 | 0  | 54 | 5   | 55 | 48 | A 2029   |
| 3375 | HME322  | 8  | 589 | 39720080 | 589 | 40047760 | 227 | 0  | 54 | 5   | 55 | 48 | A 2029   |
| 3376 | HME322  | 9  | 589 | 40088720 | 589 | 40703120 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3377 | HME322  | 10 | 589 | 40744080 | 589 | 42955920 | 53  | 21 | 15 | 32  | 8  | 28 | NRAO 140 |
| 3378 | HME322  | 11 | 589 | 42996880 | 589 | 43693200 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3379 | HME322  | 12 | 589 | 43734160 | 589 | 45741200 | 227 | 0  | 54 | 5   | 55 | 48 | A 2029   |
| 3380 | HME322  | 13 | 589 | 45782160 | 589 | 46396560 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3381 | HME322  | 14 | 589 | 46437520 | 589 | 46601360 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3382 | HME322  | 15 | 589 | 46642320 | 589 | 48649360 | 53  | 21 | 15 | 32  | 8  | 28 | NRAO 140 |
| 3383 | HME322  | 16 | 589 | 48690320 | 589 | 49386640 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3384 | HME322  | 17 | 589 | 49427600 | 589 | 51639440 | 227 | 0  | 54 | 5   | 55 | 48 | A 2029   |
| 3385 | HME322  | 18 | 589 | 52499600 | 589 | 54424720 | 53  | 33 | 18 | 0   | 25 | 29 | HR 1099  |
| 3386 | HME322  | 19 | 589 | 54465680 | 589 | 55121040 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3387 | HME322  | 20 | 589 | 55162000 | 589 | 57906320 | 206 | 37 | 0  | -30 | 3  | 42 | IC 4329A |
| 3388 | HME322  | 21 | 589 | 57947280 | 589 | 63968400 | 206 | 37 | 0  | -30 | 3  | 42 | IC 4329A |
| 3389 | HME322  | 22 | 589 | 64009360 | 589 | 67900560 | 206 | 37 | 0  | -30 | 3  | 42 | IC 4329A |
| 3390 | HME322  | 23 | 589 | 67941520 | 589 | 68187280 | 206 | 37 | 0  | -30 | 3  | 42 | IC 4329A |
| 3391 | HME322  | 24 | 589 | 68228240 | 589 | 68801680 | 206 | 37 | 0  | -30 | 3  | 42 | IC 4329A |
| 3392 | HME322  | 25 | 589 | 68842640 | 589 | 69457040 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3393 | HME322  | 26 | 589 | 69498000 | 589 | 70071440 | 53  | 33 | 18 | 0   | 25 | 29 | HR 1099  |
| 3394 | HME322  | 27 | 589 | 70112400 | 589 | 71546000 | 53  | 33 | 18 | 0   | 25 | 29 | HR 1099  |
| 3395 | HME322  | 28 | 589 | 71586960 | 589 | 72733840 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3396 | HME322  | 29 | 589 | 72774800 | 589 | 74331280 | 227 | 6  | 35 | 5   | 55 | 48 | A 2029   |
| 3397 | HME322  | 30 | 589 | 74372240 | 589 | 75109520 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3398 | HME322  | 31 | 589 | 75150480 | 589 | 77075600 | 53  | 33 | 18 | 0   | 25 | 29 | HR 1099  |
| 3399 | HME322  | 32 | 589 | 77116560 | 589 | 78263441 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3400 | HME322  | 33 | 589 | 78304401 | 589 | 78550161 | 227 | 6  | 35 | 5   | 55 | 48 | A 2029   |
| 3401 | HME322  | 34 | 589 | 80802961 | 589 | 82728081 | 53  | 33 | 18 | 0   | 25 | 29 | HR 1099  |
| 3402 | HME322  | 35 | 589 | 82769041 | 589 | 83915921 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3403 | HME322  | 36 | 589 | 83956881 | 589 | 85718161 | 227 | 6  | 35 | 5   | 55 | 48 | A 2029   |
| 3404 | HME322  | 37 | 589 | 85759121 | 589 | 85882001 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3405 | HME329  | 16 | 595 | 80137368 | 595 | 80506008 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3406 | HME329  | 17 | 595 | 80546968 | 595 | 82472088 | 53  | 45 | 0  | -36 | 10 | 0  | NGC 1365 |
| 3407 | HME329  | 18 | 595 | 82513048 | 595 | 83045528 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3408 | HME329  | 19 | 595 | 83086488 | 595 | 83905688 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3409 | HME329  | 20 | 595 | 83946648 | 596 | 3526808  | 229 | 12 | 6  | -56 | 59 | 20 | CIR X-1  |
| 3410 | HME329  | 21 | 596 | 3567768  | 596 | 4591768  | 229 | 12 | 6  | -56 | 59 | 20 | CIR X-1  |
| 3411 | HME329  | 22 | 596 | 4632728  | 596 | 5247128  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3412 | HME329  | 23 | 596 | 5288088  | 596 | 7458968  | 53  | 45 | 0  | -36 | 10 | 0  | NGC 1365 |
| 3413 | HME329  | 24 | 596 | 7499928  | 596 | 8523928  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3414 | HME329  | 25 | 596 | 8564888  | 596 | 9629848  | 239 | 59 | 15 | 16  | 5  | 24 | A2147    |
| 3415 | HME329  | 26 | 596 | 9670808  | 596 | 10162328 | 239 | 59 | 15 | 16  | 5  | 24 | A2147    |
| 3416 | HME329  | 27 | 596 | 10203288 | 596 | 10899608 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3417 | HME329  | 28 | 596 | 10940568 | 596 | 12906648 | 53  | 45 | 0  | -36 | 10 | 0  | NGC 1365 |
| 3418 | HME329  | 29 | 596 | 12947608 | 596 | 14012568 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3419 | HME329  | 30 | 596 | 14053528 | 596 | 14422168 | 239 | 59 | 15 | 16  | 5  | 24 | A2147    |
| 3420 | HME329  | 31 | 596 | 14463128 | 596 | 15855768 | 239 | 59 | 15 | 16  | 5  | 24 | A2147    |
| 3421 | HME329  | 32 | 596 | 15896728 | 596 | 16593048 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3422 | HME329  | 33 | 596 | 16634008 | 596 | 18600088 | 53  | 45 | 0  | -36 | 10 | 0  | NGC 1365 |
| 3423 | HME329  | 34 | 596 | 18641048 | 596 | 19706009 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3424 | HME329  | 35 | 596 | 19746969 | 596 | 20484249 | 239 | 53 | 18 | 16  | 5  | 24 | A2147    |
| 3425 | HME329  | 36 | 596 | 20525209 | 596 | 21549209 | 239 | 53 | 18 | 16  | 5  | 24 | A2147    |
| 3426 | HME329  | 37 | 596 | 21590169 | 596 | 22286489 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3427 | HME329  | 38 | 596 | 22327449 | 596 | 24293529 | 53  | 45 | 0  | -36 | 10 | 0  | NGC 2147 |
| 3428 | HME329  | 39 | 596 | 24334489 | 596 | 25399449 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3429 | HME329  | 40 | 596 | 25440409 | 596 | 25645209 | 239 | 59 | 15 | 16  | 5  | 24 | A2147    |
| 3430 | HME329  | 41 | 596 | 25686169 | 596 | 27242649 | 239 | 59 | 15 | 16  | 5  | 24 | A2147    |
| 3431 | HME329  | 42 | 596 | 27283609 | 596 | 27979929 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3432 | HME329  | 43 | 596 | 28020889 | 596 | 29986969 | 53  | 45 | 0  | -36 | 10 | 0  | S1365    |
| 3433 | HME329  | 44 | 596 | 30027929 | 596 | 31051929 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3434 | HME329  | 45 | 596 | 31092889 | 596 | 32608409 | 239 | 59 | 15 | 16  | 5  | 24 | A2147    |
| 3435 | HME329  | 46 | 596 | 32649369 | 596 | 32895129 | 239 | 59 | 15 | 16  | 5  | 24 | A2147    |
| 3436 | SAVE329 | 47 | 596 | 32936089 | 596 | 33673369 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3437 | HME329  | 48 | 596 | 33714329 | 596 | 35680409 | 53  | 45 | 0  | -36 | 10 | 0  | NGC 1365 |
| 3438 | HME329  | 49 | 596 | 35721369 | 596 | 36745369 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3439 | HME329  | 50 | 596 | 36786329 | 596 | 38383769 | 239 | 59 | 15 | 16  | 5  | 24 | A2147    |
| 3440 | HME329  | 51 | 596 | 38424729 | 596 | 38588569 | 239 | 59 | 15 | 16  | 5  | 24 | A2147    |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 3441 | HME329 | 52 | 596 | 38711449 | 596 | 39366809 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3442 | HME329 | 53 | 596 | 39407769 | 596 | 41332889 | 53  | 45 | 0  | -36 | 10 | 0  | NGC 1365 |
| 3443 | HME329 | 54 | 596 | 41373849 | 596 | 41906329 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3444 | HME329 | 55 | 596 | 41947289 | 596 | 43872409 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3445 | HME330 | 1  | 596 | 43913369 | 596 | 49975449 | 229 | 12 | 6  | -56 | 59 | 20 | CIR X-1  |
| 3446 | HME330 | 2  | 596 | 50016409 | 596 | 55136409 | 229 | 12 | 6  | -55 | 59 | 20 | CIR X-1  |
| 3447 | HME330 | 3  | 596 | 55177369 | 596 | 55996569 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3448 | HME330 | 4  | 596 | 56037529 | 596 | 56242329 | 44  | 3  | 0  | 13  | 25 | 0  | A 401    |
| 3449 | HME330 | 5  | 596 | 56283289 | 596 | 58618009 | 44  | 3  | 0  | 13  | 25 | 0  | A 401    |
| 3450 | HME330 | 6  | 596 | 58658969 | 596 | 58986649 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3451 | HME330 | 7  | 596 | 59846809 | 596 | 61280409 | 246 | 43 | 51 | 39  | 39 | 36 | A 2199   |
| 3452 | HME330 | 8  | 596 | 61321369 | 596 | 61976729 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3453 | HME330 | 9  | 596 | 62017689 | 596 | 64106649 | 44  | 3  | 0  | 13  | 25 | 0  | A 401    |
| 3454 | HME330 | 10 | 596 | 64147609 | 596 | 64557209 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3455 | HME330 | 11 | 596 | 64598169 | 596 | 64966809 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3456 | HME330 | 12 | 596 | 65007769 | 596 | 66973849 | 246 | 43 | 51 | 39  | 39 | 36 | A 2199   |
| 3457 | HME330 | 13 | 596 | 67014809 | 596 | 67670169 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3458 | HME330 | 14 | 596 | 67711129 | 596 | 69800089 | 44  | 3  | 0  | 13  | 25 | 0  | A 401    |
| 3459 | HME330 | 15 | 596 | 69841049 | 596 | 70619289 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3460 | HME330 | 16 | 596 | 70660249 | 596 | 72667289 | 246 | 43 | 51 | 39  | 39 | 36 | A 2199   |
| 3461 | HME330 | 17 | 596 | 72708249 | 596 | 73363609 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3462 | HME330 | 18 | 596 | 73404569 | 596 | 75493529 | 44  | 3  | 0  | 13  | 25 | 0  | A 401    |
| 3463 | HME330 | 19 | 596 | 75534489 | 596 | 76353689 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3464 | HME330 | 20 | 596 | 76394649 | 596 | 76804249 | 246 | 43 | 51 | 39  | 39 | 36 | A 2199   |
| 3465 | HME330 | 21 | 596 | 76845209 | 596 | 78360729 | 246 | 43 | 51 | 39  | 39 | 36 | A 2199   |
| 3466 | HME330 | 22 | 596 | 78401689 | 596 | 79057049 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3467 | HME330 | 23 | 596 | 79098009 | 596 | 81186969 | 44  | 3  | 0  | 13  | 25 | 0  | A 401    |
| 3468 | HME330 | 24 | 596 | 81227929 | 596 | 81924249 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3469 | HME330 | 25 | 596 | 81965209 | 596 | 82784409 | 229 | 12 | 6  | -56 | 59 | 20 | CIR X-1  |
| 3470 | HME330 | 26 | 596 | 82825369 | 597 | 2364570  | 229 | 12 | 6  | -56 | 59 | 20 | CIR X-1  |
| 3471 | HME330 | 27 | 597 | 2405530  | 597 | 3470490  | 229 | 12 | 6  | -56 | 59 | 20 | CIR X-1  |
| 3472 | HME330 | 28 | 597 | 3511450  | 597 | 4207770  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3473 | HME330 | 29 | 597 | 4248730  | 597 | 6706330  | 67  | 37 | 54 | 5   | 14 | 59 | 3C 120   |
| 3474 | HME330 | 30 | 597 | 6747290  | 597 | 7648410  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3475 | HME330 | 31 | 597 | 7689370  | 597 | 8467610  | 246 | 43 | 51 | 39  | 39 | 36 | A 2199   |
| 3476 | HME330 | 32 | 597 | 8508570  | 597 | 9286810  | 246 | 43 | 51 | 39  | 39 | 36 | A 2199   |
| 3477 | HME330 | 33 | 597 | 9327770  | 597 | 9942170  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3478 | HME330 | 34 | 597 | 9983130  | 597 | 12113050 | 67  | 37 | 54 | 5   | 14 | 59 | 3C 120   |
| 3479 | HME330 | 35 | 597 | 12154010 | 597 | 13055130 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3480 | HME330 | 36 | 597 | 13096090 | 597 | 13300890 | 246 | 43 | 51 | 39  | 39 | 36 | A 2199   |
| 3481 | HME330 | 37 | 597 | 13341850 | 597 | 14980250 | 246 | 43 | 51 | 39  | 39 | 36 | A 2199   |
| 3482 | HME330 | 38 | 597 | 15021210 | 597 | 15676570 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3483 | HME330 | 39 | 597 | 15717530 | 597 | 17806490 | 67  | 37 | 54 | 5   | 14 | 59 | 3C 120   |
| 3484 | HME330 | 40 | 597 | 17847450 | 597 | 18502810 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3485 | HME330 | 41 | 597 | 18543770 | 597 | 18748570 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3486 | HME330 | 42 | 597 | 18789530 | 597 | 20673690 | 246 | 43 | 51 | 39  | 39 | 36 | A 2199   |
| 3487 | HME330 | 43 | 597 | 20714650 | 597 | 21370010 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3488 | HME330 | 44 | 597 | 21410970 | 597 | 23499930 | 67  | 37 | 54 | 5   | 14 | 59 | 3C 120   |
| 3489 | HME330 | 45 | 597 | 23540890 | 597 | 24442010 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3490 | HME330 | 46 | 597 | 24605850 | 597 | 26367130 | 246 | 43 | 51 | 39  | 39 | 36 | A 2199   |
| 3491 | HME330 | 47 | 597 | 26408090 | 597 | 27022490 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3492 | HME330 | 48 | 597 | 27063450 | 597 | 29193370 | 67  | 37 | 54 | 5   | 14 | 59 | 3C 120   |
| 3493 | HME330 | 49 | 597 | 29234330 | 597 | 30094490 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3494 | HME330 | 50 | 597 | 30135450 | 597 | 31446170 | 246 | 43 | 51 | 39  | 39 | 36 | A 2199   |
| 3495 | HME330 | 51 | 597 | 31487130 | 597 | 32060570 | 246 | 43 | 51 | 39  | 39 | 36 | A 2199   |
| 3496 | HME331 | 1  | 597 | 32101530 | 597 | 32715930 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3497 | HME331 | 2  | 597 | 32756890 | 597 | 34845850 | 67  | 37 | 54 | 5   | 14 | 59 | 3C 120   |
| 3498 | HME331 | 3  | 597 | 34886810 | 597 | 35787930 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3499 | HME331 | 4  | 597 | 35828890 | 597 | 36689050 | 246 | 43 | 51 | 39  | 39 | 36 | A 2199   |
| 3500 | HME331 | 5  | 597 | 36730010 | 597 | 37754010 | 246 | 43 | 51 | 39  | 39 | 36 | A 2199   |
| 3501 | HME331 | 6  | 597 | 37794970 | 597 | 38409370 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3502 | HME331 | 7  | 597 | 38450330 | 597 | 40539290 | 67  | 37 | 54 | 5   | 14 | 59 | 3C 120   |
| 3503 | HME331 | 8  | 597 | 40580250 | 597 | 41235610 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3504 | HME331 | 9  | 597 | 41276570 | 597 | 42751130 | 229 | 12 | 6  | -56 | 59 | 20 | CIR X-1  |
| 3505 | HME335 | 1  | 597 | 42792090 | 597 | 48813210 | 229 | 12 | 6  | -56 | 59 | 20 | CIR X-1  |
| 3506 | HME335 | 2  | 597 | 48854170 | 597 | 49796250 | 229 | 12 | 6  | -56 | 59 | 20 | CIR X-1  |
| 3507 | HME335 | 3  | 597 | 49837210 | 597 | 50533530 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3508 | HME335 | 4  | 597 | 50574490 | 597 | 52253850 | 67  | 37 | 54 | 5   | 14 | 59 | 3C 120   |
| 3509 | HME335 | 5  | 597 | 52294810 | 597 | 53195930 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3510 | HME335 | 6  | 597 | 53236890 | 597 | 54834330 | 246 | 43 | 51 | 39  | 39 | 36 | A 2199   |
| 3511 | HME335 | 7  | 597 | 54957210 | 597 | 55366810 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3512 | HME335 | 8  | 597 | 55407770 | 597 | 57537690 | 49  | 7  | 24 | 41  | 19 | 51 | NGC 1275 |
| 3513 | HME335 | 9  | 597 | 57578650 | 597 | 58029210 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3514 | HME335 | 10 | 597 | 58111130 | 597 | 58315930 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3515 | HME335 | 11 | 597 | 58356890 | 597 | 60159130 | 239 | 3  | 45 | 27  | 22 | 10 | A 2142   |
| 3516 | HME335 | 12 | 597 | 60200090 | 597 | 60814490 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3517 | HME335 | 13 | 597 | 60855450 | 597 | 62985370 | 49  | 7  | 24 | 41  | 19 | 51 | NGC 1275 |
| 3518 | HME335 | 14 | 597 | 63026330 | 597 | 63763610 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3519 | HME335 | 15 | 597 | 63804570 | 597 | 65811610 | 239 | 3  | 45 | 27  | 22 | 10 | A 2142   |
| 3520 | HME335 | 16 | 597 | 65852570 | 597 | 66548890 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |



|      |        |    |     |          |     |          |     |    |    |     |    |    |          |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 3601 | HME325 | 17 | 599 | 13270172 | 599 | 15482012 | 53  | 59 | 17 | 9   | 48 | 32 | 0335+096 |
| 3602 | HME325 | 18 | 599 | 15522972 | 599 | 16219292 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3603 | HME325 | 19 | 599 | 16260252 | 599 | 17079452 | 239 | 3  | 45 | 27  | 22 | 10 | A 2142   |
| 3604 | HME325 | 20 | 599 | 17120412 | 599 | 18267292 | 239 | 3  | 45 | 27  | 22 | 10 | A 2142   |
| 3605 | HME325 | 21 | 599 | 18308252 | 599 | 18922652 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3606 | HME325 | 22 | 599 | 18963612 | 599 | 21175452 | 53  | 59 | 17 | 9   | 48 | 32 | 0335+096 |
| 3607 | HME325 | 23 | 599 | 21216412 | 599 | 21871772 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3608 | HME325 | 24 | 599 | 21912732 | 599 | 22281372 | 253 | 3  | 0  | 39  | 50 | 24 | MKN 501  |
| 3609 | HME325 | 25 | 599 | 22322332 | 599 | 24493212 | 253 | 3  | 0  | 39  | 50 | 24 | MKN 501  |
| 3610 | HME325 | 26 | 599 | 24534172 | 599 | 25353372 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3611 | HME325 | 27 | 599 | 25394332 | 599 | 26991772 | 53  | 59 | 17 | 9   | 48 | 32 | 0335+096 |
| 3612 | HME325 | 28 | 599 | 27032732 | 599 | 27647132 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3613 | HME325 | 29 | 599 | 27688092 | 599 | 29203612 | 253 | 3  | 0  | 39  | 50 | 24 | MKN 501  |
| 3614 | HME325 | 30 | 599 | 29244572 | 599 | 29818012 | 253 | 3  | 0  | 39  | 50 | 24 | MKN 501  |
| 3615 | HME325 | 31 | 599 | 29858972 | 599 | 30678172 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3616 | HME325 | 32 | 599 | 30719132 | 599 | 32685212 | 53  | 59 | 17 | 9   | 48 | 32 | 0335+096 |
| 3617 | HME325 | 33 | 599 | 32726172 | 599 | 33340572 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3618 | HME325 | 34 | 599 | 33381532 | 599 | 34446492 | 227 | 31 | 45 | -58 | 60 | 0  | CIRSNR B |
| 3619 | HME325 | 35 | 599 | 34487452 | 599 | 40467613 | 227 | 31 | 45 | -58 | 60 | 0  | CIRSNR B |
| 3620 | HME326 | 19 | 599 | 40508573 | 599 | 42146973 | 227 | 31 | 45 | -58 | 60 | 0  | CIRSNR B |
| 3621 | HME326 | 20 | 599 | 42187933 | 599 | 42761373 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3622 | HME326 | 21 | 599 | 42802333 | 599 | 44276893 | 78  | 6  | 54 | -40 | 6  | 0  | NGC 1851 |
| 3623 | HME326 | 22 | 599 | 44317853 | 599 | 45259933 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3624 | HME326 | 23 | 599 | 45300893 | 599 | 46529693 | 227 | 6  | 35 | 5   | 55 | 48 | A 2029   |
| 3625 | HME326 | 24 | 599 | 46570653 | 599 | 46898333 | 227 | 6  | 35 | 5   | 55 | 48 | A 2029   |
| 3626 | HME326 | 25 | 599 | 46939293 | 599 | 47635613 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3627 | HME326 | 26 | 599 | 47676573 | 599 | 49683613 | 78  | 6  | 54 | -40 | 6  | 0  | NGC 1851 |
| 3628 | HME326 | 27 | 599 | 49724573 | 599 | 50625693 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3629 | HME326 | 28 | 599 | 50666653 | 599 | 52591773 | 227 | 6  | 35 | 5   | 55 | 48 | A 2029   |
| 3630 | HME326 | 29 | 599 | 52837533 | 599 | 53288093 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3631 | HME326 | 30 | 599 | 53329053 | 599 | 55377053 | 78  | 6  | 54 | -40 | 6  | 0  | NGC 1851 |
| 3632 | HME326 | 31 | 599 | 55418013 | 599 | 56319133 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3633 | HME326 | 32 | 599 | 56360093 | 599 | 58244253 | 227 | 6  | 36 | 5   | 55 | 48 | A 2029   |
| 3634 | HME326 | 33 | 599 | 58285213 | 599 | 58981533 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3635 | HME326 | 34 | 599 | 59022493 | 599 | 61029533 | 78  | 6  | 54 | -40 | 6  | 0  | NGC 1851 |
| 3636 | HME326 | 35 | 599 | 61152413 | 599 | 62012573 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3637 | HME326 | 36 | 599 | 62053533 | 599 | 63937693 | 227 | 6  | 35 | 5   | 55 | 48 | A 2029   |
| 3638 | HME326 | 37 | 599 | 63978653 | 599 | 64715933 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3639 | HME326 | 38 | 599 | 64756893 | 599 | 67091613 | 53  | 59 | 17 | 9   | 48 | 32 | 0335+096 |
| 3640 | HME326 | 39 | 599 | 67132573 | 599 | 67255453 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3641 | HME326 | 40 | 599 | 67296413 | 599 | 67992733 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3642 | HME326 | 41 | 599 | 68033693 | 599 | 69672093 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3643 | HME326 | 42 | 599 | 69713053 | 599 | 70327453 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3644 | HME326 | 43 | 599 | 70368413 | 599 | 72457373 | 53  | 59 | 17 | 9   | 48 | 32 | 0335+096 |
| 3645 | HME326 | 44 | 599 | 72498333 | 599 | 73358493 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3646 | HME326 | 45 | 599 | 73399453 | 599 | 75365533 | 253 | 3  | 0  | 39  | 50 | 24 | MKN 501  |
| 3647 | HME326 | 46 | 599 | 75406493 | 599 | 76020893 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3648 | HME326 | 47 | 599 | 76061853 | 599 | 77986973 | 53  | 59 | 17 | 9   | 48 | 32 | 0335+096 |
| 3649 | HME326 | 48 | 599 | 78027933 | 599 | 78683293 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3650 | HME326 | 49 | 599 | 78724253 | 599 | 79379613 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3651 | HME326 | 50 | 599 | 79420573 | 599 | 85400733 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3652 | HME326 | 51 | 599 | 85441693 | 600 | 1499293  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3653 | HME331 | 11 | 600 | 1540253  | 600 | 2031773  | 0   | 0  | 0  | 0   | 0  | 0  | EISERIKE |
| 3654 | HME331 | 12 | 600 | 2072733  | 600 | 5062813  | 0   | 0  | 0  | 0   | 0  | 0  | EISERIKE |
| 3655 | HME331 | 13 | 600 | 5103773  | 600 | 5963933  | 0   | 0  | 0  | 0   | 0  | 0  | EISERIKE |
| 3656 | HME331 | 14 | 600 | 6004893  | 600 | 6127773  | 0   | 0  | 0  | 0   | 0  | 0  | EISERIKE |
| 3657 | HME332 | 1  | 611 | 142507   | 611 | 593067   | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3658 | HME332 | 2  | 611 | 634027   | 611 | 3091627  | 82  | 52 | 45 | 21  | 58 | 55 | CRAB     |
| 3659 | HME332 | 3  | 611 | 3132587  | 611 | 3378347  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3660 | HME332 | 4  | 611 | 3419307  | 611 | 3746987  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3661 | HME332 | 5  | 611 | 3787947  | 611 | 5672107  | 243 | 12 | 5  | 33  | 59 | 3  | SIG CRB  |
| 3662 | HME332 | 6  | 611 | 5713067  | 611 | 6614187  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3663 | HME332 | 7  | 611 | 6655147  | 611 | 8211627  | 62  | 40 | 6  | 10  | 20 | 37 | A 478    |
| 3664 | HME332 | 8  | 611 | 8252587  | 611 | 8907947  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3665 | HME332 | 9  | 611 | 8948907  | 611 | 9399467  | 243 | 12 | 5  | 33  | 59 | 3  | SIG CRB  |
| 3666 | HME332 | 10 | 611 | 9440427  | 611 | 10996907 | 243 | 12 | 5  | 33  | 59 | 3  | SIG CRB  |
| 3667 | HME332 | 11 | 611 | 11037867 | 611 | 11570347 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3668 | HME332 | 12 | 611 | 11611307 | 611 | 14560427 | 18  | 48 | 26 | 63  | 28 | 37 | 0115+63  |
| 3669 | HME332 | 13 | 611 | 14601387 | 611 | 20622507 | 18  | 48 | 26 | 63  | 28 | 37 | 0115+63  |
| 3670 | HME333 | 1  | 611 | 20663467 | 611 | 26807467 | 18  | 48 | 26 | 63  | 28 | 37 | 0115+63  |
| 3671 | HME333 | 2  | 611 | 26848427 | 611 | 27790507 | 18  | 48 | 26 | 63  | 28 | 37 | 0115+63  |
| 3672 | HME333 | 3  | 611 | 27831467 | 611 | 28077227 | 18  | 48 | 26 | 63  | 28 | 37 | 0115+63  |
| 3673 | HME333 | 4  | 611 | 28118187 | 611 | 30698667 | 18  | 48 | 26 | 63  | 28 | 37 | 0115+63  |
| 3674 | HME333 | 5  | 611 | 30739627 | 611 | 31231147 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3675 | HME333 | 6  | 611 | 31272107 | 611 | 34098348 | 243 | 12 | 5  | 33  | 59 | 3  | SIG CRB  |
| 3676 | HME333 | 7  | 611 | 34139308 | 611 | 35040428 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3677 | HME333 | 8  | 611 | 35081388 | 611 | 35204268 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3678 | HME333 | 9  | 611 | 35245228 | 611 | 36637868 | 62  | 40 | 6  | 10  | 20 | 37 | A 478    |
| 3679 | HME333 | 10 | 611 | 36678828 | 611 | 37334188 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3680 | HME333 | 11 | 611 | 37375148 | 611 | 39423148 | 243 | 12 | 5  | 33  | 59 | 3  | SIG CRB  |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 3681 | HME333 | 12 | 611 | 39464108 | 611 | 40406188 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3682 | HME333 | 13 | 611 | 40447148 | 611 | 41266348 | 62  | 40 | 6  | 10  | 20 | 37 | A 478    |
| 3683 | HME333 | 14 | 611 | 41307308 | 611 | 42331308 | 62  | 40 | 6  | 10  | 20 | 37 | A 478    |
| 3684 | HME333 | 15 | 611 | 42372268 | 611 | 43027628 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3685 | HME333 | 16 | 611 | 43068588 | 611 | 45075628 | 243 | 12 | 5  | 33  | 59 | 3  | SIG CRB  |
| 3686 | HME333 | 17 | 611 | 45116588 | 611 | 45730988 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3687 | HME333 | 18 | 611 | 45771948 | 611 | 47369388 | 82  | 52 | 45 | 21  | 58 | 55 | CRAB     |
| 3688 | HME333 | 19 | 611 | 47410348 | 611 | 47860908 | 82  | 52 | 45 | 21  | 58 | 55 | CRAB     |
| 3689 | HME333 | 20 | 611 | 47901868 | 611 | 48557228 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3690 | HME333 | 21 | 611 | 48598188 | 611 | 50277548 | 243 | 1  | 59 | 26  | 25 | 59 | TOR 256  |
| 3691 | HME333 | 22 | 611 | 50523308 | 611 | 51096748 | 243 | 1  | 59 | 26  | 25 | 59 | TOR 256  |
| 3692 | HME333 | 23 | 611 | 51137708 | 611 | 52120748 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3693 | HME333 | 24 | 611 | 52161708 | 611 | 53718188 | 62  | 40 | 6  | 10  | 20 | 37 | A 478    |
| 3694 | HME333 | 25 | 611 | 53759148 | 611 | 54414508 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3695 | HME333 | 26 | 611 | 54455468 | 611 | 56503468 | 243 | 1  | 59 | 26  | 25 | 59 | TOR 256  |
| 3696 | HME333 | 27 | 611 | 56544428 | 611 | 57486508 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3697 | HME333 | 28 | 611 | 57527468 | 611 | 59411628 | 62  | 40 | 6  | 10  | 20 | 37 | A 478    |
| 3698 | HME333 | 29 | 611 | 59452588 | 611 | 60107948 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3699 | HME333 | 30 | 611 | 60148908 | 611 | 61050028 | 243 | 1  | 59 | 26  | 25 | 59 | TOR 256  |
| 3700 | HME333 | 31 | 611 | 61131948 | 611 | 62196908 | 243 | 1  | 59 | 26  | 25 | 59 | TOR 256  |
| 3701 | HME333 | 32 | 611 | 62237868 | 611 | 62770348 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3702 | HME333 | 33 | 611 | 62811308 | 611 | 70388908 | 25  | 43 | 45 | 61  | 29 | 56 | 0142+61  |
| 3703 | HME333 | 34 | 611 | 70470828 | 611 | 76123308 | 25  | 43 | 45 | 61  | 29 | 56 | 0142+61  |
| 3704 | HME333 | 35 | 611 | 76164268 | 611 | 76819628 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3705 | HME333 | 36 | 611 | 76860588 | 611 | 78867628 | 243 | 1  | 59 | 26  | 25 | 59 | TOR 256  |
| 3706 | HME333 | 37 | 611 | 78908588 | 611 | 79563948 | 243 | 1  | 59 | 26  | 25 | 59 | TOR 256  |
| 3707 | HME333 | 38 | 611 | 79604908 | 611 | 80506028 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3708 | HME333 | 39 | 611 | 80546988 | 611 | 82144428 | 62  | 40 | 6  | 10  | 20 | 37 | A 478    |
| 3709 | HME333 | 40 | 611 | 82185388 | 611 | 82513068 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3710 | HME333 | 41 | 611 | 82554028 | 611 | 82840748 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3711 | HME333 | 42 | 611 | 82881708 | 611 | 84561068 | 243 | 1  | 59 | 26  | 25 | 59 | TOR 256  |
| 3712 | HME333 | 43 | 611 | 84602028 | 611 | 84929708 | 243 | 1  | 59 | 26  | 25 | 59 | TOR 256  |
| 3713 | HME333 | 44 | 611 | 84970668 | 611 | 85912748 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3714 | HME333 | 45 | 611 | 85953708 | 612 | 14378868 | 62  | 40 | 6  | 10  | 20 | 37 | A 478    |
| 3715 | HME342 | 1  | 612 | 1478828  | 612 | 2093228  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3716 | HME342 | 2  | 612 | 2134188  | 612 | 2257068  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3717 | HME342 | 3  | 612 | 2298028  | 612 | 4591788  | 253 | 11 | 29 | -8  | 15 | 43 | WOLF 630 |
| 3718 | HME342 | 4  | 612 | 4632748  | 612 | 5697708  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3719 | HME342 | 5  | 612 | 5738668  | 612 | 7336108  | 84  | 33 | 30 | -1  | 58 | 3  | ZETA ORI |
| 3720 | HME342 | 6  | 612 | 7377068  | 612 | 8073388  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3721 | HME342 | 7  | 612 | 8196268  | 612 | 10080428 | 253 | 11 | 29 | -8  | 15 | 43 | WOLF 630 |
| 3722 | HME342 | 8  | 612 | 10121388 | 612 | 10817708 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3723 | HME342 | 9  | 612 | 10858668 | 612 | 13562028 | 82  | 52 | 45 | 21  | 58 | 55 | CRAB     |
| 3724 | HME342 | 10 | 612 | 13602988 | 612 | 14012588 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3725 | HME342 | 11 | 612 | 14053548 | 612 | 16756909 | 30  | 25 | 0  | 64  | 34 | 59 | 3C 58    |
| 3726 | HME342 | 12 | 612 | 16797869 | 612 | 22859949 | 30  | 25 | 0  | 64  | 34 | 59 | 3C 58    |
| 3727 | HME342 | 13 | 612 | 22900909 | 612 | 25030829 | 30  | 25 | 0  | 64  | 34 | 59 | 3C 58    |
| 3728 | HME342 | 14 | 612 | 25071789 | 612 | 25317549 | 30  | 25 | 0  | 64  | 34 | 59 | 3C 58    |
| 3729 | HME342 | 15 | 612 | 25358509 | 612 | 25850029 | 30  | 25 | 0  | 64  | 34 | 59 | 3C 58    |
| 3730 | HME342 | 16 | 612 | 25890989 | 612 | 29986989 | 30  | 25 | 0  | 64  | 34 | 59 | 3C 58    |
| 3731 | HME342 | 17 | 612 | 30027949 | 612 | 30683309 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3732 | HME342 | 18 | 612 | 30724269 | 612 | 33018029 | 253 | 11 | 29 | -8  | 15 | 43 | WOLF 630 |
| 3733 | HME342 | 19 | 612 | 33058989 | 612 | 34042029 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3734 | HME342 | 20 | 612 | 34164909 | 612 | 35762349 | 84  | 33 | 30 | -1  | 58 | 3  | ZETA ORI |
| 3735 | HME342 | 21 | 612 | 35803309 | 612 | 36499629 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3736 | HME342 | 22 | 612 | 36540589 | 612 | 38506669 | 253 | 11 | 29 | -8  | 15 | 43 | WOLF 630 |
| 3737 | HME342 | 23 | 612 | 38547629 | 612 | 39653549 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3738 | HME342 | 24 | 612 | 39694509 | 612 | 40104109 | 84  | 33 | 30 | -1  | 58 | 3  | ZETA ORI |
| 3739 | HME342 | 25 | 612 | 40145069 | 612 | 41455789 | 84  | 33 | 30 | -1  | 58 | 3  | ZETA ORI |
| 3740 | HME342 | 26 | 612 | 41496749 | 612 | 42193069 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3741 | HME337 | 1  | 612 | 42234029 | 612 | 44200109 | 253 | 11 | 29 | -8  | 15 | 43 | WOLF 630 |
| 3742 | HME337 | 2  | 612 | 44241069 | 612 | 44896429 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3743 | HME337 | 3  | 612 | 44937389 | 612 | 46166189 | 84  | 33 | 30 | -1  | 58 | 3  | ZETA ORI |
| 3744 | HME337 | 4  | 612 | 46821549 | 612 | 47149229 | 84  | 33 | 30 | -1  | 58 | 3  | ZETA ORI |
| 3745 | HME337 | 5  | 612 | 47190189 | 612 | 47722669 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3746 | HME337 | 6  | 612 | 47763629 | 612 | 58495149 | 214 | 21 | 33 | -62 | 28 | 14 | 1437-62  |
| 3747 | HME337 | 7  | 612 | 58577069 | 612 | 60911789 | 214 | 21 | 33 | -62 | 28 | 14 | 1437-62  |
| 3748 | HME337 | 8  | 612 | 60993709 | 612 | 62099629 | 214 | 21 | 33 | -62 | 28 | 14 | 1437-62  |
| 3749 | HME337 | 9  | 612 | 62140589 | 612 | 62632109 | 214 | 21 | 33 | -62 | 28 | 14 | 1437-62  |
| 3750 | HME337 | 10 | 612 | 62754989 | 612 | 63123629 | 214 | 21 | 33 | -62 | 28 | 14 | 1437-62  |
| 3751 | HME337 | 11 | 612 | 63246509 | 612 | 63410349 | 214 | 21 | 33 | -62 | 28 | 14 | 1437-62  |
| 3752 | HME337 | 12 | 612 | 63451309 | 612 | 66564269 | 214 | 21 | 33 | -62 | 28 | 14 | 1437-62  |
| 3753 | HME337 | 13 | 612 | 66605229 | 612 | 67260589 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3754 | HME337 | 14 | 612 | 67301549 | 612 | 69185709 | 82  | 52 | 45 | 21  | 58 | 55 | CRAB     |
| 3755 | HME337 | 15 | 612 | 69226669 | 612 | 70086829 | 82  | 52 | 45 | 21  | 58 | 55 | CRAB     |
| 3756 | HME337 | 16 | 612 | 70127789 | 612 | 70865069 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3757 | HME337 | 17 | 612 | 70906029 | 612 | 72831149 | 248 | 35 | 59 | -10 | 28 | 3  | ZETA OPH |
| 3758 | HME337 | 18 | 612 | 72872109 | 612 | 73937069 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3759 | HME337 | 19 | 612 | 73978029 | 612 | 74346669 | 84  | 33 | 30 | -1  | 58 | 3  | ZETA ORI |
| 3760 | HME337 | 20 | 612 | 74387629 | 612 | 75575469 | 84  | 33 | 30 | -1  | 58 | 3  | ZETA ORI |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 3761 | HME338 | 1  | 612 | 75616429 | 612 | 76312749 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3762 | HME338 | 2  | 612 | 76353709 | 612 | 78319789 | 248 | 35 | 59 | -10 | 28 | 3  | ZETA OPH |
| 3763 | HME338 | 3  | 612 | 78360749 | 612 | 79425709 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3764 | HME338 | 4  | 612 | 79466669 | 612 | 81227949 | 84  | 33 | 30 | -1  | 58 | 3  | ZETA ORI |
| 3765 | HME338 | 5  | 612 | 81309869 | 612 | 81965229 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3766 | HME338 | 6  | 612 | 82006189 | 612 | 84013230 | 248 | 35 | 59 | -10 | 28 | 3  | ZETA OPH |
| 3767 | HME338 | 7  | 612 | 84054190 | 612 | 85201070 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3768 | HME338 | 8  | 612 | 85242030 | 613 | 111790   | 67  | 37 | 54 | 5   | 14 | 59 | 3C 120   |
| 3769 | HME332 | 14 | 613 | 40129710 | 613 | 41317550 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3770 | HME332 | 15 | 613 | 41358510 | 613 | 43078830 | 248 | 35 | 59 | -10 | 28 | 3  | ZETA OPH |
| 3771 | HME332 | 16 | 613 | 43119790 | 613 | 43857070 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3772 | HME332 | 17 | 613 | 43898030 | 613 | 45208750 | 67  | 37 | 54 | 5   | 14 | 59 | 3C 120   |
| 3773 | HME332 | 18 | 613 | 45249710 | 613 | 45823150 | 67  | 37 | 54 | 5   | 14 | 59 | 3C 120   |
| 3774 | HME332 | 19 | 613 | 45864110 | 613 | 46273710 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3775 | HME332 | 20 | 613 | 46314670 | 613 | 51025070 | 30  | 25 | 0  | 64  | 34 | 59 | 3C 58    |
| 3776 | HME332 | 21 | 613 | 51106990 | 613 | 57169070 | 30  | 25 | 0  | 64  | 34 | 59 | 3C 58    |
| 3777 | HME332 | 22 | 613 | 57291950 | 613 | 57455790 | 30  | 25 | 0  | 64  | 34 | 59 | 3C 58    |
| 3778 | HME332 | 23 | 613 | 57496750 | 613 | 62125230 | 30  | 25 | 0  | 64  | 34 | 59 | 3C 58    |
| 3779 | HME332 | 24 | 613 | 62166190 | 613 | 63149230 | 30  | 25 | 0  | 64  | 34 | 59 | 3C 58    |
| 3780 | HME332 | 25 | 613 | 63190190 | 613 | 63845550 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3781 | HME332 | 26 | 613 | 63886510 | 613 | 65852591 | 248 | 35 | 59 | -10 | 28 | 3  | ZETA OPH |
| 3782 | HME332 | 27 | 613 | 65893551 | 613 | 67040431 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3783 | HME332 | 28 | 613 | 67081391 | 613 | 68678831 | 67  | 37 | 54 | 5   | 14 | 59 | 3C 120   |
| 3784 | HME332 | 29 | 613 | 68719791 | 613 | 69457071 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3785 | HME332 | 30 | 613 | 69498031 | 613 | 71382191 | 248 | 35 | 59 | -10 | 28 | 3  | ZETA OPH |
| 3786 | HME332 | 31 | 613 | 71423151 | 613 | 72570031 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3787 | HME332 | 32 | 613 | 72610991 | 613 | 73184431 | 67  | 37 | 54 | 5   | 14 | 59 | 3C 120   |
| 3788 | HME332 | 33 | 613 | 73225391 | 613 | 74331311 | 67  | 37 | 54 | 5   | 14 | 59 | 3C 120   |
| 3789 | HME332 | 34 | 613 | 74372271 | 613 | 75150511 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3790 | HME332 | 35 | 613 | 75191471 | 613 | 77198511 | 248 | 35 | 59 | -10 | 28 | 3  | ZETA OPH |
| 3791 | HME332 | 36 | 613 | 77239471 | 613 | 78386351 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3792 | HME332 | 37 | 613 | 78427311 | 613 | 79246511 | 62  | 40 | 6  | 10  | 20 | 37 | A 478    |
| 3793 | HME332 | 38 | 613 | 79287471 | 613 | 80024751 | 62  | 40 | 6  | 10  | 20 | 37 | A 478    |
| 3794 | HME332 | 39 | 613 | 80065711 | 613 | 80802991 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3795 | HME332 | 40 | 613 | 80843951 | 613 | 82728111 | 248 | 35 | 59 | -10 | 28 | 3  | ZETA OPH |
| 3796 | HME332 | 41 | 613 | 82769071 | 613 | 83915951 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3797 | HME332 | 42 | 613 | 83956911 | 613 | 85718191 | 62  | 40 | 6  | 10  | 20 | 37 | A 478    |
| 3798 | HME332 | 43 | 613 | 85759151 | 613 | 86168751 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3799 | HME332 | 44 | 613 | 86209711 | 614 | 96431    | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3800 | HME334 | 1  | 614 | 137391   | 614 | 2021551  | 248 | 35 | 59 | -10 | 28 | 3  | ZETA OPH |
| 3801 | HME334 | 2  | 614 | 2062511  | 614 | 3209391  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3802 | HME334 | 3  | 614 | 3250351  | 614 | 4970671  | 62  | 40 | 6  | 10  | 20 | 37 | A 478    |
| 3803 | HME334 | 4  | 614 | 5052591  | 614 | 5626031  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3804 | HME334 | 5  | 614 | 5666991  | 614 | 11073711 | 193 | 34 | 56 | -69 | 1  | 3  | 1254-69  |
| 3805 | HME334 | 6  | 614 | 11114671 | 614 | 14473391 | 193 | 34 | 56 | -69 | 1  | 3  | 1254-69  |
| 3806 | HME334 | 7  | 614 | 14514351 | 614 | 23197871 | 193 | 34 | 56 | -69 | 1  | 3  | 1254-69  |
| 3807 | HME334 | 8  | 614 | 23238831 | 614 | 24139951 | 193 | 34 | 56 | -69 | 1  | 3  | 1254-69  |
| 3808 | HME334 | 9  | 614 | 24180911 | 614 | 24385711 | 193 | 34 | 56 | -69 | 1  | 3  | 1254 69  |
| 3809 | HME334 | 10 | 614 | 24426671 | 614 | 24713391 | 193 | 34 | 56 | -69 | 1  | 3  | 1254-69  |
| 3810 | HME334 | 11 | 614 | 24754351 | 614 | 25286831 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3811 | HME334 | 12 | 614 | 25327791 | 614 | 27744431 | 62  | 40 | 6  | 10  | 20 | 37 | A 478    |
| 3812 | HME334 | 13 | 614 | 27785391 | 614 | 28973231 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3813 | HME334 | 14 | 614 | 29014191 | 614 | 30570671 | 248 | 35 | 59 | -10 | 28 | 3  | ZETA OPH |
| 3814 | HME334 | 15 | 614 | 30611631 | 614 | 31348911 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3815 | HME334 | 16 | 614 | 31389871 | 614 | 31717551 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3816 | HME334 | 17 | 614 | 31758511 | 614 | 33765551 | 82  | 52 | 44 | 21  | 58 | 55 | CRAB     |
| 3817 | HME334 | 18 | 614 | 33806511 | 614 | 33929391 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3818 | HME334 | 19 | 623 | 10280122 | 623 | 10812602 | 82  | 52 | 44 | 21  | 58 | 55 | CRAB     |
| 3819 | HME334 | 20 | 623 | 10853562 | 623 | 13065402 | 82  | 52 | 44 | 21  | 58 | 55 | CRAB     |
| 3820 | HME334 | 21 | 623 | 13106362 | 623 | 13270202 | 82  | 52 | 44 | 21  | 58 | 55 | CRAB     |
| 3821 | HME335 | 27 | 625 | 10945725 | 625 | 12829885 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3822 | HME335 | 28 | 625 | 12870845 | 625 | 15369405 | 82  | 52 | 44 | 21  | 58 | 55 | CRAB     |
| 3823 | HME335 | 29 | 625 | 15410365 | 625 | 16106685 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3824 | HME335 | 30 | 625 | 16147645 | 625 | 18728125 | 248 | 11 | 15 | -28 | 6  | 51 | TAU SCO  |
| 3825 | HME335 | 31 | 625 | 18769085 | 625 | 18973885 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3826 | HME335 | 32 | 625 | 19014845 | 625 | 19875005 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3827 | HME335 | 33 | 625 | 19915965 | 625 | 21472445 | 93  | 29 | 45 | 22  | 48 | 0  | IC 443A  |
| 3828 | HME335 | 34 | 625 | 21513405 | 625 | 22291645 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3829 | HME335 | 35 | 625 | 22332605 | 625 | 24216765 | 248 | 11 | 15 | -28 | 6  | 51 | TAU SCO  |
| 3830 | HME335 | 36 | 625 | 24257725 | 625 | 25076925 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3831 | HME335 | 37 | 625 | 25117885 | 625 | 25404605 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3832 | HME335 | 38 | 625 | 25445565 | 625 | 27165885 | 93  | 29 | 45 | 22  | 48 | 0  | IC 443A  |
| 3833 | HME335 | 39 | 625 | 27206845 | 625 | 27944125 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3834 | HME336 | 1  | 625 | 27985085 | 625 | 29910205 | 248 | 11 | 15 | -28 | 6  | 51 | TAU SCO  |
| 3835 | HME336 | 2  | 625 | 29951165 | 625 | 30647485 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 3836 | HME336 | 3  | 625 | 30688445 | 625 | 31016125 | 78  | 14 | 53 | 45  | 56 | 58 | CAPELLA  |
| 3837 | HME336 | 4  | 625 | 31057085 | 625 | 37078205 | 78  | 14 | 53 | 45  | 56 | 58 | CAPELLA  |
| 3838 | HME336 | 5  | 625 | 37119165 | 625 | 42075325 | 78  | 14 | 53 | 45  | 56 | 58 | CAPELLA  |
| 3839 | HME336 | 6  | 625 | 42116285 | 625 | 42812605 | 78  | 14 | 53 | 45  | 56 | 58 | CAPELLA  |
| 3840 | HME336 | 7  | 625 | 42853565 | 625 | 43099325 | 78  | 14 | 53 | 45  | 56 | 58 | CAPELLA  |

|      |        |    |     |          |     |          |     |    |    |     |    |    |         |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|---------|
| 3841 | HME336 | 8  | 625 | 43140285 | 625 | 47932605 | 78  | 14 | 53 | 45  | 56 | 58 | CAPELLA |
| 3842 | HME336 | 9  | 625 | 47973565 | 625 | 48710845 | 78  | 14 | 53 | 45  | 56 | 58 | CAPELLA |
| 3843 | HME336 | 10 | 625 | 48751805 | 625 | 49489085 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3844 | HME336 | 11 | 625 | 49530045 | 625 | 52806846 | 248 | 11 | 15 | -28 | 6  | 51 | TAU SCO |
| 3845 | HME336 | 12 | 625 | 52847806 | 625 | 53134526 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3846 | HME336 | 13 | 625 | 53175486 | 625 | 53994686 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3847 | HME336 | 14 | 625 | 54035646 | 625 | 55592126 | 93  | 35 | 45 | 22  | 48 | 0  | IC 443B |
| 3848 | HME336 | 15 | 625 | 55633086 | 625 | 56370366 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3849 | HME336 | 16 | 625 | 56411326 | 625 | 58336446 | 248 | 11 | 15 | -28 | 6  | 51 | TAU SCO |
| 3850 | HME336 | 17 | 625 | 58377406 | 625 | 59360446 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3851 | HME336 | 18 | 625 | 59524286 | 625 | 61285566 | 93  | 35 | 45 | 22  | 48 | 0  | IC 443B |
| 3852 | HME336 | 19 | 625 | 61326526 | 625 | 62063806 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3853 | HME336 | 20 | 625 | 62104766 | 625 | 64029886 | 248 | 11 | 15 | -28 | 6  | 51 | TAU SCO |
| 3854 | HME336 | 21 | 625 | 64070846 | 625 | 65176766 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3855 | HME336 | 22 | 625 | 65217726 | 625 | 66077886 | 93  | 35 | 45 | 22  | 48 | 0  | IC 443B |
| 3856 | HME336 | 23 | 625 | 66118846 | 625 | 66979006 | 93  | 35 | 45 | 22  | 48 | 0  | IC 443B |
| 3857 | HME336 | 24 | 625 | 67019966 | 625 | 67716286 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3858 | HME336 | 25 | 625 | 67757246 | 625 | 69969086 | 275 | 35 | 42 | -37 | 8  | 9  | 1822-37 |
| 3859 | HME336 | 26 | 625 | 70010046 | 625 | 70501566 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3860 | HME336 | 27 | 625 | 70542526 | 625 | 71361726 | 83  | 56 | 15 | -66 | 3  | 53 | N63A    |
| 3861 | HME336 | 28 | 625 | 71402686 | 625 | 77423806 | 83  | 56 | 15 | -66 | 3  | 53 | N63A    |
| 3862 | HME336 | 29 | 625 | 77464766 | 625 | 83240126 | 83  | 56 | 15 | -66 | 3  | 53 | N63A    |
| 3863 | HME336 | 30 | 625 | 83281086 | 625 | 83485886 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3864 | HME336 | 31 | 625 | 83526846 | 625 | 83854526 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3865 | HME336 | 32 | 625 | 83895486 | 626 | 690366   | 262 | 33 | 7  | -37 | 4  | 10 | LAM SCO |
| 3866 | HME338 | 9  | 626 | 731326   | 626 | 1796286  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3867 | HME338 | 10 | 626 | 1837246  | 626 | 3188926  | 93  | 29 | 45 | 22  | 48 | 0  | IC 433A |
| 3868 | HME338 | 11 | 626 | 3229886  | 626 | 3434686  | 93  | 29 | 45 | 22  | 48 | 0  | IC 433A |
| 3869 | HME338 | 12 | 626 | 3475646  | 626 | 4171966  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3870 | HME338 | 13 | 626 | 4212926  | 626 | 6179006  | 262 | 33 | 7  | -37 | 4  | 10 | LAM SCO |
| 3871 | HME338 | 14 | 626 | 6219966  | 626 | 7284926  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3872 | HME338 | 15 | 626 | 7325886  | 626 | 9087166  | 93  | 29 | 45 | 22  | 48 | 0  | IC 443A |
| 3873 | HME338 | 16 | 626 | 9128126  | 626 | 9865406  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3874 | HME338 | 17 | 626 | 9906366  | 626 | 11667646 | 262 | 33 | 7  | -37 | 4  | 10 | LAM SCO |
| 3875 | HME338 | 18 | 626 | 11708606 | 626 | 11831486 | 262 | 33 | 7  | -37 | 4  | 10 | LAM SCO |
| 3876 | HME338 | 19 | 626 | 11872446 | 626 | 12282046 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3877 | HME338 | 20 | 626 | 12363966 | 626 | 12937406 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3878 | HME338 | 21 | 626 | 12978366 | 626 | 14780606 | 93  | 29 | 45 | 22  | 48 | 0  | IC 433A |
| 3879 | HME338 | 22 | 626 | 14821566 | 626 | 15558846 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3880 | HME338 | 23 | 626 | 15599806 | 626 | 17524926 | 262 | 33 | 7  | -37 | 4  | 10 | LAM SCO |
| 3881 | HME338 | 24 | 626 | 17565886 | 626 | 18630846 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3882 | HME338 | 25 | 626 | 18671806 | 626 | 20474046 | 93  | 29 | 45 | 22  | 48 | 0  | IC 443A |
| 3883 | HME338 | 26 | 626 | 20515006 | 626 | 21252286 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3884 | HME338 | 27 | 626 | 21293246 | 626 | 23505086 | 275 | 35 | 42 | -37 | 8  | 9  | 1822-37 |
| 3885 | HME338 | 28 | 626 | 23546046 | 626 | 23791806 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3886 | HME338 | 29 | 626 | 23873726 | 626 | 24611006 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3887 | HME338 | 30 | 626 | 24651966 | 626 | 26249406 | 93  | 35 | 45 | 22  | 48 | 0  | IC 443B |
| 3888 | HME338 | 31 | 626 | 26290366 | 626 | 26986686 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3889 | HME338 | 32 | 626 | 27027646 | 626 | 28993726 | 275 | 35 | 42 | -37 | 8  | 9  | 1822-37 |
| 3890 | HME338 | 33 | 626 | 29034686 | 626 | 29485246 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3891 | HME338 | 34 | 626 | 29526206 | 626 | 29976766 | 84  | 32 | 15 | -69 | 11 | 36 | N 157B  |
| 3892 | HME338 | 35 | 626 | 30017726 | 626 | 35915967 | 84  | 32 | 15 | -69 | 11 | 36 | N 157B  |
| 3893 | HME338 | 36 | 626 | 35956927 | 626 | 39684287 | 84  | 32 | 15 | -69 | 11 | 36 | N 157B  |
| 3894 | HME338 | 37 | 626 | 39725247 | 626 | 40298687 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3895 | HME338 | 38 | 626 | 40339647 | 626 | 41978047 | 82  | 52 | 44 | 21  | 58 | 55 | CRAB    |
| 3896 | HME338 | 39 | 626 | 42019007 | 626 | 42961087 | 82  | 52 | 44 | 21  | 58 | 55 | CRAB    |
| 3897 | HME338 | 40 | 626 | 43002047 | 626 | 43698367 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3898 | HME338 | 41 | 626 | 43739327 | 626 | 46237887 | 275 | 35 | 42 | -37 | 8  | 9  | 1822-37 |
| 3899 | HME338 | 42 | 626 | 46278847 | 626 | 46770367 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3900 | HME338 | 43 | 626 | 46811327 | 626 | 47343807 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3901 | HME338 | 44 | 626 | 47384767 | 626 | 48982207 | 93  | 35 | 45 | 22  | 48 | 0  | IC 443B |
| 3902 | HME338 | 45 | 626 | 49023167 | 626 | 49760447 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3903 | HME338 | 46 | 626 | 49801407 | 626 | 51726527 | 275 | 35 | 42 | -37 | 8  | 9  | 1822-37 |
| 3904 | HME338 | 47 | 626 | 51767487 | 626 | 52832447 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3905 | HME338 | 48 | 626 | 52873407 | 626 | 54675647 | 93  | 35 | 45 | 22  | 48 | 0  | IC 443B |
| 3906 | HME338 | 49 | 626 | 54716607 | 626 | 55453887 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3907 | HME338 | 50 | 626 | 55494847 | 626 | 57747647 | 275 | 35 | 42 | -37 | 8  | 9  | 1822-37 |
| 3908 | HME338 | 51 | 626 | 57788607 | 626 | 58689727 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3909 | HME338 | 52 | 626 | 58730687 | 626 | 58894527 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3910 | HME338 | 53 | 626 | 58935487 | 626 | 60328127 | 83  | 25 | 0  | -1  | 13 | 56 | EP ORI  |
| 3911 | HME338 | 54 | 626 | 60369087 | 626 | 61024447 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3912 | HME343 | 1  | 626 | 61065407 | 626 | 63359167 | 262 | 33 | 7  | -37 | 4  | 10 | LAM SCO |
| 3913 | HME343 | 2  | 626 | 63400127 | 626 | 64301247 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3914 | HME343 | 3  | 626 | 64342207 | 626 | 64956607 | 83  | 25 | 0  | -1  | 13 | 56 | EP ORI  |
| 3915 | HME343 | 4  | 626 | 64997567 | 626 | 65939647 | 83  | 25 | 0  | -1  | 13 | 56 | EP ORI  |
| 3916 | HME343 | 5  | 626 | 65980607 | 626 | 66635967 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3917 | HME343 | 6  | 626 | 66676927 | 626 | 68724927 | 262 | 33 | 7  | -37 | 4  | 10 | LAM SCO |
| 3918 | HME343 | 7  | 626 | 68765887 | 626 | 69257407 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW    |
| 3919 | HME343 | 8  | 626 | 69298367 | 626 | 70158527 | 81  | 23 | 0  | -69 | 48 | 6  | N 132D  |
| 3920 | HME343 | 9  | 626 | 70199487 | 626 | 76220607 | 81  | 23 | 0  | -69 | 48 | 6  | N 132D  |



|      |        |    |     |          |     |          |     |    |    |    |    |    |          |
|------|--------|----|-----|----------|-----|----------|-----|----|----|----|----|----|----------|
| 4001 | HME348 | 13 | 639 | 66395344 | 639 | 68689104 | 82  | 21 | 45 | 0  | 20 | 4  | DELT ORI |
| 4002 | HME348 | 14 | 639 | 68730064 | 639 | 69303504 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4003 | HME348 | 15 | 639 | 69344464 | 639 | 69713104 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4004 | HME348 | 16 | 639 | 69754064 | 639 | 71310544 | 282 | 3  | 39 | 33 | 18 | 13 | BETA LYR |
| 4005 | HME348 | 17 | 639 | 71351504 | 639 | 72006864 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4006 | HME348 | 18 | 639 | 72047824 | 639 | 74095824 | 82  | 21 | 45 | 0  | 20 | 4  | DELT ORI |
| 4007 | HME348 | 19 | 639 | 74136784 | 639 | 75119824 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4008 | HME348 | 20 | 639 | 75160784 | 639 | 75406544 | 282 | 3  | 29 | 33 | 18 | 13 | BETA LYR |
| 4009 | HME348 | 21 | 639 | 75447504 | 639 | 76963024 | 282 | 3  | 29 | 33 | 18 | 13 | BETA LYR |
| 4010 | HME347 | 12 | 639 | 77003984 | 639 | 77741264 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4011 | HME347 | 13 | 639 | 77782224 | 639 | 79789264 | 82  | 21 | 45 | 0  | 20 | 4  | DELT ORI |
| 4012 | HME347 | 14 | 639 | 79830224 | 639 | 80813264 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4013 | HME347 | 15 | 639 | 80854224 | 639 | 81591504 | 282 | 3  | 29 | 33 | 18 | 13 | BETA LYR |
| 4014 | HME347 | 16 | 639 | 81632464 | 639 | 82697424 | 282 | 3  | 29 | 33 | 18 | 13 | BETA LYR |
| 4015 | HME347 | 17 | 639 | 82738384 | 639 | 83393744 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4016 | HME347 | 18 | 639 | 83434704 | 639 | 85359824 | 82  | 21 | 45 | 0  | 20 | 4  | DELT ORI |
| 4017 | HME347 | 19 | 639 | 85400784 | 639 | 86138064 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4018 | HME347 | 20 | 639 | 86179024 | 640 | 1089744  | 287 | 20 | 17 | 4  | 53 | 53 | SS 433   |
| 4019 | HME336 | 33 | 640 | 1130704  | 640 | 7151824  | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4020 | HME336 | 34 | 640 | 7192784  | 640 | 8503504  | 287 | 20 | 17 | 4  | 53 | 53 | SS 433   |
| 4021 | HME336 | 35 | 640 | 8544464  | 640 | 8749264  | 283 | 22 | 30 | 1  | 15 | 0  | W 44     |
| 4022 | HME336 | 36 | 640 | 8790224  | 640 | 13254864 | 283 | 22 | 30 | 1  | 15 | 0  | W 44     |
| 4023 | HME337 | 22 | 640 | 13295824 | 640 | 18006224 | 283 | 22 | 30 | 1  | 15 | 0  | W 44     |
| 4024 | HME337 | 23 | 640 | 18047184 | 640 | 23208144 | 283 | 22 | 30 | 1  | 15 | 0  | W 44     |
| 4025 | HME337 | 24 | 640 | 23249104 | 640 | 26362064 | 283 | 22 | 30 | 1  | 15 | 0  | W 44     |
| 4026 | HME337 | 25 | 640 | 26403024 | 640 | 26648784 | 283 | 22 | 30 | 1  | 15 | 0  | W 44     |
| 4027 | HME337 | 26 | 640 | 26689744 | 640 | 29229264 | 283 | 22 | 30 | 1  | 15 | 0  | W 44     |
| 4028 | HME337 | 27 | 640 | 29270224 | 640 | 36192465 | 283 | 22 | 30 | 1  | 15 | 0  | W 44     |
| 4029 | HME337 | 28 | 640 | 36233425 | 640 | 36888785 | 283 | 22 | 30 | 1  | 15 | 0  | W 44     |
| 4030 | HME337 | 29 | 640 | 36929745 | 640 | 37585105 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4031 | HME345 | 1  | 640 | 37626065 | 640 | 44794065 | 109 | 21 | 0  | 55 | 51 | 0  | A 576    |
| 4032 | HME345 | 2  | 640 | 44835025 | 640 | 50241745 | 109 | 21 | 0  | 55 | 51 | 0  | A 576    |
| 4033 | HME345 | 3  | 640 | 51265745 | 640 | 53518545 | 109 | 21 | 0  | 55 | 51 | 0  | A 576    |
| 4034 | HME345 | 4  | 640 | 53559505 | 640 | 54624465 | 109 | 21 | 0  | 55 | 51 | 0  | A 576    |
| 4035 | HME345 | 5  | 640 | 54665425 | 640 | 55197905 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4036 | HME345 | 6  | 640 | 55238865 | 640 | 59007185 | 109 | 21 | 0  | 55 | 51 | 0  | A 576    |
| 4037 | HME345 | 7  | 640 | 59048145 | 640 | 59662545 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4038 | HME345 | 8  | 640 | 59703505 | 640 | 60031185 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4039 | HME345 | 9  | 640 | 60072145 | 640 | 61669585 | 82  | 21 | 45 | 0  | 20 | 4  | DELT ORI |
| 4040 | HME345 | 10 | 640 | 61710545 | 640 | 62406865 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4041 | HME345 | 11 | 640 | 62447825 | 640 | 64946385 | 286 | 26 | 15 | 43 | 56 | 12 | MV LYR   |
| 4042 | HME345 | 12 | 640 | 64987345 | 640 | 65847505 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4043 | HME345 | 13 | 640 | 65888465 | 640 | 67485905 | 93  | 35 | 35 | 9  | 9  | 22 | 0614+09  |
| 4044 | HME345 | 14 | 640 | 67526865 | 640 | 68100305 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4045 | HME345 | 15 | 640 | 68141265 | 640 | 70271185 | 286 | 26 | 15 | 43 | 56 | 12 | MV LYR   |
| 4046 | HME345 | 16 | 640 | 70312145 | 640 | 71172305 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4047 | HME345 | 17 | 640 | 71213265 | 640 | 73138385 | 93  | 35 | 35 | 9  | 9  | 22 | 0614+09  |
| 4048 | HME345 | 18 | 640 | 73179345 | 640 | 73834705 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4049 | HME345 | 19 | 640 | 73875665 | 640 | 74162385 | 286 | 26 | 15 | 43 | 56 | 12 | MV LYR   |
| 4050 | HME345 | 20 | 640 | 74203345 | 640 | 75964625 | 286 | 26 | 15 | 43 | 56 | 12 | MV LYR   |
| 4051 | HME345 | 21 | 640 | 76005585 | 640 | 76824785 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4052 | HME345 | 22 | 640 | 76865745 | 640 | 78790865 | 93  | 35 | 35 | 9  | 9  | 22 | 0614+09  |
| 4053 | HME337 | 30 | 640 | 78831825 | 640 | 79487185 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4054 | HME337 | 31 | 640 | 79528145 | 640 | 80347345 | 286 | 26 | 15 | 43 | 56 | 12 | MV LYR   |
| 4055 | HME337 | 32 | 640 | 80388305 | 640 | 81658065 | 286 | 26 | 15 | 43 | 56 | 12 | MV LYR   |
| 4056 | HME337 | 33 | 640 | 81699025 | 640 | 82518225 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4057 | HME337 | 34 | 640 | 82559185 | 640 | 84238545 | 93  | 35 | 35 | 9  | 9  | 22 | 0614+09  |
| 4058 | HME337 | 35 | 640 | 84279505 | 640 | 85016785 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4059 | HME337 | 36 | 640 | 85057745 | 640 | 86286545 | 287 | 20 | 17 | 4  | 53 | 53 | SS 443   |
| 4060 | HME337 | 37 | 640 | 86327505 | 641 | 5948625  | 287 | 20 | 17 | 4  | 53 | 53 | SS 443   |
| 4061 | HME339 | 1  | 641 | 5989585  | 641 | 7341265  | 287 | 20 | 17 | 4  | 53 | 53 | SS 443   |
| 4062 | HME339 | 2  | 641 | 7382225  | 641 | 7750865  | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4063 | HME339 | 3  | 641 | 7791825  | 641 | 12092625 | 282 | 3  | 29 | 33 | 18 | 13 | BETA LYR |
| 4064 | HME339 | 4  | 641 | 12133585 | 641 | 12420305 | 282 | 3  | 29 | 33 | 18 | 13 | BETA LYR |
| 4065 | HME339 | 5  | 641 | 12461265 | 641 | 13403345 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4066 | HME339 | 6  | 641 | 13444305 | 641 | 15041745 | 83  | 25 | 0  | -1 | 13 | 56 | EP ORI   |
| 4067 | HME339 | 7  | 641 | 15082705 | 641 | 15779025 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4068 | HME339 | 8  | 641 | 15819985 | 641 | 16843986 | 282 | 3  | 29 | 33 | 18 | 13 | BETA LYR |
| 4069 | HME339 | 9  | 641 | 16884946 | 641 | 17827026 | 282 | 3  | 29 | 33 | 18 | 13 | BETA LYR |
| 4070 | HME339 | 10 | 641 | 17867986 | 641 | 18810066 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4071 | HME339 | 11 | 641 | 18851026 | 641 | 20735186 | 83  | 25 | 0  | -1 | 13 | 56 | EP ORI   |
| 4072 | HME339 | 12 | 641 | 20776146 | 641 | 21472466 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4073 | HME339 | 13 | 641 | 21513426 | 641 | 22086866 | 282 | 3  | 29 | 33 | 18 | 13 | BETA LYR |
| 4074 | HME348 | 26 | 641 | 22127826 | 641 | 23479506 | 282 | 3  | 29 | 33 | 18 | 13 | BETA LYR |
| 4075 | HME348 | 27 | 641 | 23520466 | 641 | 24503506 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4076 | HME348 | 28 | 641 | 24544466 | 641 | 26428626 | 83  | 25 | 0  | -1 | 13 | 56 | EP ORI   |
| 4077 | HME348 | 29 | 641 | 26469586 | 641 | 27124946 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |
| 4078 | HME348 | 30 | 641 | 27165906 | 641 | 28026066 | 282 | 3  | 29 | 33 | 18 | 13 | BETA LYR |
| 4079 | HME348 | 31 | 641 | 28067026 | 641 | 29172946 | 282 | 3  | 29 | 33 | 18 | 13 | BETA LYR |
| 4080 | HME348 | 32 | 641 | 29213906 | 641 | 30196946 | 0   | 0  | 0  | 0  | 0  | 0  | SLEW     |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 4081 | HME348 | 33 | 641 | 30237906 | 641 | 32081106 | 83  | 25 | 0  | -1  | 13 | 56 | EP ORI   |
| 4082 | HME348 | 34 | 641 | 32122066 | 641 | 32818386 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4083 | HME348 | 35 | 641 | 32859346 | 641 | 34948306 | 286 | 26 | 15 | 43  | 56 | 12 | MV LYR   |
| 4084 | HME348 | 36 | 641 | 34989266 | 641 | 35275986 | 286 | 26 | 15 | 43  | 56 | 12 | MV LYR   |
| 4085 | HME348 | 37 | 641 | 35316946 | 641 | 36218066 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4086 | HME348 | 38 | 641 | 36259026 | 641 | 37856466 | 83  | 25 | 0  | -1  | 13 | 56 | EP ORI   |
| 4087 | HME348 | 39 | 641 | 37897426 | 641 | 38388946 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4088 | HME348 | 40 | 641 | 38429906 | 641 | 43590866 | 128 | 41 | 41 | 65  | 11 | 45 | PI UMA   |
| 4089 | HME348 | 41 | 641 | 43631826 | 641 | 46212306 | 128 | 41 | 41 | 65  | 11 | 45 | PI UMA   |
| 4090 | HME343 | 14 | 641 | 46253266 | 641 | 51823826 | 128 | 41 | 41 | 65  | 11 | 45 | PI UMA   |
| 4091 | HME343 | 15 | 641 | 51864786 | 641 | 52315346 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4092 | HME343 | 16 | 641 | 53134546 | 641 | 55059666 | 83  | 25 | 0  | -1  | 13 | 56 | EP ORI   |
| 4093 | HME343 | 17 | 641 | 55100626 | 641 | 56001746 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4094 | HME343 | 18 | 641 | 56042706 | 641 | 57722066 | 128 | 41 | 41 | 65  | 11 | 45 | MV LYR   |
| 4095 | HME343 | 19 | 641 | 57763026 | 641 | 58418386 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4096 | HME343 | 20 | 641 | 58459346 | 641 | 62923986 | 83  | 25 | 0  | -1  | 13 | 56 | EP ORI   |
| 4097 | HME343 | 21 | 641 | 63005906 | 641 | 65995986 | 83  | 25 | 0  | -1  | 13 | 56 | EP ORI   |
| 4098 | HME343 | 22 | 641 | 66036946 | 641 | 66241746 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4099 | HME343 | 23 | 641 | 66282706 | 641 | 71894226 | 83  | 12 | 18 | -5  | 25 | 5  | 0531-05  |
| 4100 | HME343 | 24 | 641 | 72058066 | 641 | 79103186 | 83  | 12 | 18 | -5  | 25 | 5  | 0531-05  |
| 4101 | HME343 | 25 | 641 | 79144146 | 641 | 83526867 | 83  | 12 | 18 | -5  | 25 | 5  | 0531-05  |
| 4102 | HME343 | 26 | 641 | 83567827 | 641 | 83690707 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4103 | HME339 | 14 | 651 | 1289438  | 651 | 1699038  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4104 | HME339 | 15 | 651 | 1739998  | 651 | 3787998  | 114 | 54 | 30 | 3   | 48 | 0  | YZ CMI   |
| 4105 | HME339 | 16 | 651 | 3828958  | 651 | 7269598  | 114 | 54 | 30 | 3   | 48 | 0  | YZ CMI   |
| 4106 | HME339 | 17 | 651 | 7433438  | 651 | 9850078  | 114 | 54 | 30 | 3   | 48 | 0  | YZ CMI   |
| 4107 | HME339 | 18 | 651 | 9891038  | 651 | 15953118 | 114 | 54 | 30 | 3   | 48 | 0  | YZ CMI   |
| 4108 | HME339 | 19 | 651 | 15994078 | 651 | 19762399 | 114 | 54 | 30 | 3   | 48 | 0  | YZ CMI   |
| 4109 | HME339 | 20 | 651 | 19803359 | 651 | 20335839 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4110 | HME339 | 21 | 651 | 20376799 | 651 | 22015199 | 109 | 21 | 0  | 55  | 51 | 0  | A 576    |
| 4111 | HME339 | 22 | 651 | 22547679 | 651 | 28036319 | 109 | 21 | 0  | 55  | 51 | 0  | A 576    |
| 4112 | HME339 | 23 | 651 | 28077279 | 651 | 28855519 | 109 | 21 | 0  | 55  | 51 | 0  | A 576    |
| 4113 | HME339 | 24 | 651 | 28896479 | 651 | 29142239 | 109 | 21 | 0  | 55  | 51 | 0  | A 576    |
| 4114 | HME339 | 25 | 651 | 29183199 | 651 | 33443039 | 109 | 21 | 0  | 55  | 51 | 0  | A 576    |
| 4115 | HME339 | 26 | 651 | 33483999 | 651 | 34098399 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4116 | HME339 | 27 | 651 | 34139359 | 651 | 35450079 | 287 | 10 | 43 | 0   | 30 | 4  | AQL X-1  |
| 4117 | HME339 | 28 | 651 | 35531999 | 651 | 35654879 | 287 | 10 | 43 | 0   | 30 | 4  | AQL X-1  |
| 4118 | HME339 | 29 | 651 | 35695839 | 651 | 36596959 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4119 | HME339 | 30 | 651 | 36637919 | 651 | 37129439 | 120 | 27 | 15 | -39 | 51 | 41 | ZETA PUP |
| 4120 | HME340 | 1  | 651 | 37211359 | 651 | 38235359 | 120 | 27 | 15 | -39 | 51 | 41 | ZETA PUP |
| 4121 | HME340 | 2  | 651 | 38276319 | 651 | 38972639 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4122 | HME340 | 3  | 651 | 39013599 | 651 | 40488159 | 287 | 10 | 43 | 0   | 30 | 4  | AQL X-1  |
| 4123 | HME340 | 4  | 651 | 40570079 | 651 | 41020639 | 287 | 10 | 43 | 0   | 30 | 4  | AQL X-1  |
| 4124 | HME340 | 5  | 651 | 41061599 | 651 | 42003679 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4125 | HME340 | 6  | 651 | 42044639 | 651 | 43928799 | 120 | 27 | 15 | -39 | 51 | 41 | ZETA PUP |
| 4126 | HME340 | 7  | 651 | 43969759 | 651 | 44625119 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4127 | HME340 | 8  | 651 | 44666079 | 651 | 46714079 | 287 | 10 | 43 | 0   | 30 | 4  | AQL X-1  |
| 4128 | HME340 | 9  | 651 | 46755039 | 651 | 47656159 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4129 | HME340 | 10 | 651 | 47697119 | 651 | 48680159 | 120 | 27 | 15 | -39 | 51 | 41 | ZETA PUP |
| 4130 | HME340 | 11 | 651 | 48721119 | 651 | 49622239 | 120 | 27 | 15 | -39 | 51 | 41 | ZETA PUP |
| 4131 | HME340 | 12 | 651 | 49663199 | 651 | 50318559 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4132 | HME340 | 13 | 651 | 50359519 | 651 | 52407519 | 287 | 10 | 43 | 0   | 30 | 4  | AQL X-1  |
| 4133 | HME340 | 14 | 651 | 52448479 | 651 | 53349599 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4134 | HME340 | 15 | 651 | 53390559 | 651 | 54742239 | 120 | 27 | 15 | -39 | 51 | 41 | ZETA PUP |
| 4135 | HME340 | 16 | 651 | 54824159 | 651 | 55274719 | 120 | 27 | 15 | -39 | 51 | 41 | ZETA PUP |
| 4136 | HME340 | 17 | 651 | 55315679 | 651 | 55971039 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4137 | HME340 | 18 | 651 | 56011999 | 651 | 58059999 | 287 | 10 | 43 | 0   | 30 | 4  | AQL X-1  |
| 4138 | HME340 | 19 | 651 | 58100959 | 651 | 59043039 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4139 | HME340 | 20 | 651 | 59083999 | 651 | 60886239 | 120 | 27 | 15 | -39 | 51 | 41 | ZETA PUP |
| 4140 | HME340 | 21 | 651 | 61009119 | 651 | 61623519 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4141 | HME340 | 22 | 651 | 61664479 | 651 | 64244959 | 294 | 58 | 46 | -10 | 26 | 36 | N 6814   |
| 4142 | HME340 | 23 | 651 | 64285919 | 651 | 65146079 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4143 | HME340 | 24 | 651 | 65187039 | 651 | 66784479 | 120 | 27 | 15 | -39 | 51 | 41 | ZETA PUP |
| 4144 | HME340 | 25 | 651 | 66907359 | 651 | 67398879 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4145 | HME340 | 26 | 651 | 67439839 | 651 | 70388959 | 294 | 58 | 46 | -10 | 26 | 36 | N 6814   |
| 4146 | HME340 | 27 | 651 | 70429919 | 651 | 70839519 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4147 | HME340 | 28 | 651 | 70880479 | 651 | 72928479 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4148 | HME340 | 29 | 651 | 72969439 | 651 | 80178399 | 289 | 14 | 12 | -58 | 45 | 50 | ESO 141  |
| 4149 | HME340 | 30 | 651 | 80219359 | 651 | 81775839 | 289 | 14 | 12 | -58 | 45 | 50 | ESO 141  |
| 4150 | HME340 | 31 | 651 | 81816799 | 651 | 82595039 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4151 | HME340 | 32 | 651 | 82635999 | 651 | 82963679 | 114 | 54 | 30 | 3   | 48 | 0  | YZ CMI   |
| 4152 | HME340 | 33 | 651 | 83004639 | 652 | 2584800  | 114 | 54 | 30 | 3   | 48 | 0  | YZ CMI   |
| 4153 | HME344 | 12 | 652 | 2625760  | 652 | 8646880  | 114 | 54 | 30 | 3   | 48 | 0  | YZ CMI   |
| 4154 | HME344 | 13 | 652 | 8687840  | 652 | 11227360 | 114 | 54 | 30 | 3   | 48 | 0  | YZ CMI   |
| 4155 | HME344 | 14 | 652 | 11268320 | 652 | 11514080 | 114 | 54 | 30 | 3   | 48 | 0  | YZ CMI   |
| 4156 | HME344 | 15 | 652 | 11555040 | 652 | 14708960 | 114 | 54 | 30 | 3   | 48 | 0  | YZ CMI   |
| 4157 | HME344 | 16 | 652 | 14749920 | 652 | 20033760 | 114 | 54 | 30 | 3   | 48 | 0  | YZ CMI   |
| 4158 | HME344 | 17 | 652 | 20074720 | 652 | 20771040 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4159 | HME344 | 18 | 652 | 20812000 | 652 | 26833120 | 289 | 14 | 12 | -58 | 45 | 50 | ESO 141  |
| 4160 | HME344 | 19 | 652 | 26874080 | 652 | 29372640 | 289 | 14 | 12 | -58 | 45 | 50 | ESO 141  |

|      |        |    |     |          |     |          |     |    |    |     |    |    |          |
|------|--------|----|-----|----------|-----|----------|-----|----|----|-----|----|----|----------|
| 4161 | HME344 | 20 | 652 | 29413600 | 652 | 30068960 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4162 | HME344 | 21 | 652 | 30109920 | 652 | 32854240 | 101 | 0  | 45 | -16 | 40 | 51 | SIRIUS   |
| 4163 | HME344 | 22 | 652 | 32895200 | 652 | 38998240 | 101 | 0  | 45 | -16 | 40 | 51 | SIRIUS   |
| 4164 | HME347 | 21 | 652 | 39039200 | 652 | 47476960 | 101 | 0  | 45 | -16 | 40 | 51 | SIRIUS   |
| 4165 | HME347 | 22 | 652 | 47517920 | 652 | 53498080 | 101 | 0  | 45 | -16 | 40 | 51 | SIRIUS   |
| 4166 | HME347 | 23 | 652 | 53580000 | 652 | 59683040 | 101 | 0  | 45 | -16 | 40 | 51 | SIRIUS   |
| 4167 | HME347 | 24 | 652 | 59724000 | 652 | 64762080 | 101 | 0  | 45 | -16 | 40 | 51 | SIRIUS   |
| 4168 | HME347 | 25 | 652 | 64803040 | 652 | 65499361 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4169 | HME347 | 26 | 652 | 65540321 | 652 | 65663201 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4170 | HME348 | 22 | 652 | 65704161 | 652 | 71725281 | 286 | 16 | 43 | 7   | 3  | 14 | 3C397    |
| 4171 | HME348 | 23 | 652 | 71766241 | 652 | 74674401 | 286 | 16 | 43 | 7   | 3  | 14 | 3C397    |
| 4172 | HME348 | 24 | 652 | 74715361 | 652 | 75452641 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4173 | HME348 | 25 | 652 | 75493601 | 652 | 79180001 | 114 | 54 | 30 | 3   | 48 | 0  | YZ CMI   |
| 4174 | HME344 | 23 | 652 | 79220961 | 653 | 1340641  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4175 | HME341 | 1  | 653 | 1381601  | 653 | 7197921  | 114 | 54 | 30 | 3   | 48 | 0  | YZ CMI   |
| 4176 | HME341 | 2  | 653 | 7238881  | 653 | 7402721  | 114 | 54 | 30 | 3   | 48 | 0  | YZ CMI   |
| 4177 | HME341 | 3  | 653 | 7525601  | 653 | 13505761 | 114 | 54 | 30 | 3   | 48 | 0  | YZ CMI   |
| 4178 | HME341 | 4  | 653 | 13546721 | 653 | 19322081 | 114 | 54 | 30 | 3   | 48 | 0  | YZ CMI   |
| 4179 | HME341 | 5  | 653 | 19363041 | 653 | 20059361 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4180 | HME341 | 6  | 653 | 20100321 | 653 | 22885601 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4181 | HME341 | 7  | 653 | 22926561 | 653 | 25588961 | 289 | 14 | 15 | -58 | 45 | 50 | ESO 141  |
| 4182 | HME341 | 8  | 653 | 25629921 | 653 | 29930721 | 289 | 14 | 15 | -58 | 45 | 50 | ESO 141  |
| 4183 | HME341 | 9  | 653 | 29971681 | 653 | 30217441 | 289 | 14 | 15 | -58 | 45 | 50 | ESO 141  |
| 4184 | HME341 | 10 | 653 | 30258401 | 653 | 31651041 | 289 | 14 | 15 | -58 | 45 | 50 | ESO 141  |
| 4185 | HME341 | 11 | 653 | 31692001 | 653 | 33576161 | 289 | 14 | 15 | -58 | 45 | 50 | ESO 141  |
| 4186 | HME341 | 12 | 653 | 33617121 | 653 | 34149601 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4187 | HME341 | 13 | 653 | 34190561 | 653 | 35583201 | 87  | 12 | 35 | -32 | 16 | 56 | PKS 0548 |
| 4188 | HME341 | 14 | 653 | 35665121 | 653 | 35828961 | 87  | 12 | 35 | -32 | 16 | 56 | PKS 0548 |
| 4189 | HME341 | 15 | 653 | 35869921 | 653 | 36812001 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4190 | HME341 | 16 | 653 | 36852961 | 653 | 38450401 | 286 | 28 | 42 | 0   | 5  | 37 | BURSTER  |
| 4191 | HME341 | 17 | 653 | 38491361 | 653 | 39146721 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4192 | HME341 | 18 | 653 | 39187681 | 653 | 41194721 | 87  | 12 | 35 | -32 | 16 | 56 | PKS 0548 |
| 4193 | HME341 | 19 | 653 | 41235681 | 653 | 42177761 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4194 | HME341 | 20 | 653 | 42218721 | 653 | 44102881 | 286 | 28 | 42 | 0   | 5  | 37 | BURSTER  |
| 4195 | HME341 | 21 | 653 | 44143841 | 653 | 44840162 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4196 | HME341 | 22 | 653 | 44881122 | 653 | 45208802 | 87  | 12 | 35 | -32 | 16 | 56 | PKO 0548 |
| 4197 | HME341 | 23 | 653 | 45495522 | 653 | 46888162 | 87  | 12 | 35 | -32 | 16 | 56 | PKO 0548 |
| 4198 | HME341 | 24 | 653 | 46929122 | 653 | 47871202 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4199 | HME341 | 25 | 653 | 47912162 | 653 | 49796322 | 286 | 28 | 42 | 0   | 5  | 37 | BURSTER  |
| 4200 | HME341 | 26 | 653 | 49837282 | 653 | 50533602 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4201 | HME341 | 27 | 653 | 50574562 | 653 | 52335842 | 87  | 12 | 35 | -32 | 16 | 56 | PKO 0548 |
| 4202 | HME341 | 28 | 653 | 52376802 | 653 | 52581602 | 87  | 12 | 35 | -32 | 16 | 56 | PKO 0548 |
| 4203 | HME341 | 29 | 653 | 52622562 | 653 | 53564642 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4204 | HME341 | 30 | 653 | 53605602 | 653 | 55489762 | 286 | 28 | 42 | 0   | 5  | 37 | BURSTER  |
| 4205 | HME341 | 31 | 653 | 55530722 | 653 | 56186082 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4206 | HME341 | 32 | 653 | 56227042 | 653 | 58275042 | 87  | 12 | 35 | -32 | 16 | 56 | PKO 0548 |
| 4207 | HME341 | 33 | 653 | 58479842 | 653 | 59258082 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4208 | HME341 | 34 | 653 | 59299042 | 653 | 61183202 | 286 | 28 | 42 | 0   | 5  | 37 | BURSTER  |
| 4209 | HME341 | 35 | 653 | 61224162 | 653 | 61879522 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4210 | HME341 | 36 | 653 | 61920482 | 653 | 63599842 | 87  | 12 | 35 | -32 | 16 | 56 | PKO 0548 |
| 4211 | HME341 | 37 | 653 | 63640802 | 653 | 64296162 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4212 | HME341 | 38 | 653 | 64419042 | 653 | 70481122 | 286 | 16 | 43 | 7   | 3  | 14 | 3C 397   |
| 4213 | HME342 | 33 | 653 | 70522082 | 653 | 76543202 | 286 | 16 | 43 | 7   | 3  | 14 | 3C 397   |
| 4214 | HME342 | 34 | 653 | 76584162 | 653 | 77608162 | 286 | 16 | 43 | 7   | 3  | 14 | 3C 397   |
| 4215 | HME342 | 35 | 653 | 77649122 | 653 | 78345442 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4216 | HME342 | 36 | 653 | 78386402 | 653 | 80516322 | 87  | 12 | 35 | -32 | 16 | 56 | PKO 0548 |
| 4217 | HME342 | 37 | 653 | 80557282 | 653 | 81253602 | 87  | 12 | 35 | -32 | 16 | 56 | PKO 0548 |
| 4218 | HME342 | 38 | 653 | 81294562 | 653 | 82236642 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4219 | HME342 | 39 | 653 | 82236642 | 653 | 83875042 | 279 | 39 | 46 | -4  | 59 | 53 | KES 73   |
| 4220 | HME342 | 40 | 653 | 83916002 | 653 | 84571362 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4221 | HME342 | 41 | 653 | 84612322 | 654 | 96482    | 87  | 12 | 35 | -32 | 16 | 56 | PKO 0548 |
| 4222 | HME345 | 23 | 654 | 137442   | 654 | 260322   | 87  | 12 | 35 | -32 | 16 | 56 | PKS 0548 |
| 4223 | HME345 | 24 | 654 | 301282   | 654 | 1243362  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4224 | HME345 | 25 | 654 | 1284322  | 654 | 3127522  | 279 | 39 | 46 | -4  | 59 | 53 | KES 73   |
| 4225 | HME345 | 26 | 654 | 3168482  | 654 | 3823842  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4226 | HME345 | 27 | 654 | 3864802  | 654 | 5912802  | 87  | 12 | 35 | -32 | 16 | 56 | PKS 0548 |
| 4227 | HME345 | 28 | 654 | 5953762  | 654 | 6199522  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4228 | HME345 | 29 | 654 | 6240482  | 654 | 6895842  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4229 | HME345 | 30 | 654 | 6936802  | 654 | 8820962  | 279 | 39 | 46 | -4  | 59 | 53 | KES 73   |
| 4230 | HME345 | 31 | 654 | 8861922  | 654 | 9558242  | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4231 | HME345 | 32 | 654 | 9599202  | 654 | 11606242 | 87  | 12 | 35 | -32 | 16 | 56 | PKS 0548 |
| 4232 | HME345 | 33 | 654 | 11647202 | 654 | 12589282 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4233 | HME345 | 34 | 654 | 12630242 | 654 | 14514402 | 279 | 39 | 46 | -4  | 59 | 53 | KES 73   |
| 4234 | HME345 | 35 | 654 | 14555362 | 654 | 15210722 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4235 | HME345 | 36 | 654 | 15251682 | 654 | 15702242 | 87  | 12 | 35 | -32 | 16 | 56 | PKS 0548 |
| 4236 | HME345 | 37 | 654 | 15743202 | 654 | 17094882 | 87  | 12 | 35 | -32 | 16 | 56 | PKS 0548 |
| 4237 | HME345 | 38 | 654 | 17135842 | 654 | 17832162 | 0   | 0  | 0  | 0   | 0  | 0  | SLEW     |
| 4238 | HME345 | 39 | 654 | 17873122 | 654 | 18282722 | 286 | 16 | 43 | 7   | 3  | 14 | 3C 397   |
| 4239 | HME345 | 40 | 654 | 18323682 | 654 | 24344803 | 286 | 16 | 43 | 7   | 3  | 14 | 3C 397   |
| 4240 | HME345 | 41 | 654 | 24385763 | 654 | 30406883 | 286 | 16 | 43 | 7   | 3  | 14 | 3C 397   |



# RECORD COUNT OF TAPE OCA

INPUT TAPE OCA ON MT1

| FILE | INPUT RECS. | DATA RECORDS INPUT | MAX. SIZE | READ ERROR SUMMARY |        |       |        | INPUT RETRIES |        |
|------|-------------|--------------------|-----------|--------------------|--------|-------|--------|---------------|--------|
|      |             |                    |           | PERM               | ZERO B | SHORT | UNDEF. | #RECS.        | TOTAL# |
| 1    | 5441        | 5441               | 132       | 0                  | 5      | 0     | 0      | 5             | 5      |
| 2    | 49          | 49                 | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 3    | 190         | 190                | 132       | 0                  | 1      | 0     | 0      | 1             | 1      |
| 4    | 31          | 31                 | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 5    | 60          | 60                 | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 6    | 15          | 15                 | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 7    | 198         | 198                | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 8    | 136         | 136                | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 9    | 259         | 259                | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 10   | 192         | 192                | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 11   | 123         | 123                | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 12   | 59          | 59                 | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 13   | 62          | 62                 | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 14   | 210         | 210                | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 15   | 76          | 76                 | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 16   | 140         | 140                | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 17   | 76          | 76                 | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 18   | 133         | 133                | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 19   | 343         | 343                | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 20   | 106         | 106                | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 21   | 87          | 87                 | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 22   | 41          | 41                 | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 23   | 209         | 209                | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 24   | 64          | 64                 | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 25   | 20          | 20                 | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 26   | 57          | 57                 | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 27   | 159         | 159                | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 28   | 29          | 29                 | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 29   | 737         | 737                | 132       | 0                  | 1      | 0     | 0      | 1             | 1      |
| 30   | 80          | 80                 | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 31   | 133         | 133                | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 32   | 155         | 155                | 132       | 0                  | 1      | 0     | 0      | 1             | 1      |
| 33   | 97          | 97                 | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 34   | 51          | 51                 | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 35   | 11          | 11                 | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 36   | 551         | 551                | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 37   | 100         | 100                | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 38   | 41          | 41                 | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 39   | 10          | 10                 | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 40   | 214         | 214                | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 41   | 36          | 36                 | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 42   | 29          | 29                 | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 43   | 79          | 79                 | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 44   | 71          | 71                 | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 45   | 59          | 59                 | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 46   | 32          | 32                 | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 47   | 14          | 14                 | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 48   | 118         | 118                | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 49   | 288         | 288                | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 50   | 60          | 60                 | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |
| 51   | 316         | 316                | 132       | 0                  | 0      | 0     | 0      | 0             | 0      |

174 FRAMES  
3 FILES

DOUBLE END OF FILE READ AFTER FILE 51 # OF PERMANENT READ ERRORS 0

START TIME 09/24/81 13:39:10 STOP TIME 09/24/81 13:42:09

INPUT PARAMETERS ARE: ED FL=1=1

D-45284

TAPE NO. 1 FILE NO. 1  
RECORD 1 LENGTH 132

TAPE NO. 1 FILE NO. 1  
RECORD 5441 LENGTH 132  
TOTAL TIME REQUESTED WAS 29131 KSECS. TOTAL TIME DONE WAS 36300.18 KSECS.

\*\*\*\*\* JOB DONE.  
SEXE TPDUMP BS