

SPIRE Pointing Calibration Sources

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Pete Hargrave and Matt Griffin

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1. Introduction

This document summarises the requirements on pointing calibration sources for SPIRE, and provides a list of suitable sources and their relevant properties. Some important aspects of pointing calibration are also discussed in [1].

2. Requirements for SPIRE pointing sources

| Property | Requirement |
|--|---|
| Coordinates | Ideally the source coordinates should be known to better than 0.2'' [1]; but 0.5'' may be tolerable in the early stages of pointing calibration. |
| Angular size | Ideally a point source should be used. However, a small planetary disc is acceptable – Uranus and Neptune are compact with symmetrical and centrally peaked surface brightness distributions |
| Brightness | The source should be bright enough to provide high S/N, but not so bright as to cause significant non-linearity that would distort the beam shape if not corrected. In principle, the uncertainty in the recovered position (normalised to the FWHM) is roughly comparable to the S/N achieved on the peak position. In the absence of any other errors, a target statistical uncertainty of 1/20 th of a beam thus requires a S/N of order 20 or better. In practice there will be additional sources of uncertainty, and a better statistical S/N should be sought. Ref [1] considers the overall error budget and recommends a target S/N of ~ 100 on the peak. With nominal HSpot sensitivities, this is achievable in a standard 7-point observation with one repeat for a source brighter than about 150 mJy. To avoid complicating the analysis, nothing stronger than Uranus should be used. |
| Knowledge of brightness | No requirement |
| Short-term variability (timescale of an observation) | Adopting a typical requirement of S/N = 100 on the peak position, in order to have a negligible impact on the relative signals measured for different offset positions with respect to the peak, the intrinsic variability of the source must therefore be less than about 0.3% over the course of the measurement (which would result in a minor degradation of the S/N - by a factor of roughly $(1^2 + 0.3^2)^{0.5} = 1.04$). |
| Long-term variability (timescale longer than an observation) | No requirement as long as the brightness criteria are met. |
| Motion | Ideally pointing targets should have fixed coordinates, but there is no fundamental problem with moving targets if the telescope tracking is sufficiently accurate. Therefore no requirement on source motion is assumed in this document (although the utility of planets and asteroids for pointing will need to be considered in the light of the actual performance of the Herschel AOCS at the time of the observation). |
| Distribution on the sky | To ensure that accurate pointing calibration can be done for any allowed Herschel solar aspect angle at any time of year, calibration sources should be available over as wide an area of sky as possible. |
| Environment | Ideally, pointing sources would be seen against perfectly dark sky. In practice, sources have as strong a degree of contrast with respect to the background sky, and sky gradients and non-uniformities should be as low as possible. In considering a highly ambitious target 1/40 th beam overall accuracy, it is recommended in Ref [1] that the maximum signal that could be generated by an observation of the same part of sky in the absence of the point source must be < 0.2% of the source signal. A less stringent requirement of 0.3% is likely to be adequate for SPIRE purposes, especially in the early stages. A standard SPIRE point source compares the source against two positions 126'' distant on each side. Allowing for the fact that the observation is a small map, we adopt a circular region of radius 5 arcminutes |

| | |
|---------------------|---|
| | around the source, and require that the maximum surface brightness contrast over that region be less than 0.3% of the point source brightness. For a 1 Jy source, this corresponds to 3 mJy – this is close to the extragalactic confusion limit. |
| Source multiplicity | To facilitate the accurate calibration of the relative pixel positions on the SPIRE arrays, it is desirable to observe some double or multiple sources such that two or more point sources with known positions are detected simultaneously. |

2.1 Suitable pointing sources for SPIRE

Planets: When available, planets are routinely used on ground-based submillimetre telescopes for pointing measurements. Uranus and Neptune can be used provided that

- (i) their positions are known with sufficient accuracy;
- (ii) they can be tracked sufficiently accurately (or are moving sufficiently slowly) to introduce negligible uncertainties in the measurement.

Asteroids: Moderately bright asteroids can be used provided that

- (i) their positions are known with sufficient accuracy;
- (ii) they can be tracked sufficiently accurately to introduce negligible uncertainties in the measurement;
- (iii) their FIR/submm rotational variability is either negligible or well-understood.

QSOs, Blazars and BL Lacs: Bright point-like extragalactic radio sources are routinely used for pointing calibration at ground-based submillimetre observatories when planets are not available. Although highly variable on timescales of days and longer, there are significant numbers of them which meet the above requirements. Section 3 is based on the JCMT and SEST pointing catalogues, so covering the northern and southern hemispheres. For the most precise pointing calibration observations, the brightest candidates in the least cirrus-contaminated regions of sky should be chosen to minimise the effects of confusion noise.

Special sources: Additionally, two double sources have been selected for focal plane spatial calibration.

3. Extragalactic pointing sources

A sample of sources has been selected from the JCMT pointing catalogue:

http://www.jach.hawaii.edu/JCMT/telescope/pointing/point_cat.html (also attached as Annex 1)

and the SEST 1.2-mm southern hemisphere pointing catalogue of Adrou et al. (2001) [2], the data from which are available at:

<http://cdsarc.u-strasbg.fr/cgi-bin/qcat?/A+A/376/1123>

The Adrou et al. table is reproduced in Annex 2.

Position and name references are taken from the NASA/IPAC Extragalactic Database (NED):

<http://nedwww.ipac.caltech.edu/index.html>

Extrapolated SPIRE flux densities have been derived from the lowest quoted 1.2-mm data for the SEST sources, and from the lowest 850 μm data for the JCMT sources, assuming a spectral index, α (where $S(\nu) \propto \nu^\alpha$), determined for each source from the SED information available in the NED database. A typical value for α is -1.

For a pointing calibration observation, we require a 250- μm brightness sufficient to give a good signal-to-noise ratio (S/N) in a short observation. A $S/N > 100$ in a 256 second (time on-source) point-source observation requires a 250 μm flux density > 150 mJy.

3.1 Pointing source list

Annex 3 is a table of potential pointing sources from the JCMT and SEST catalogues. The table is ordered by estimated 250- μm brightness. It lists the source name (with up to three common designations for each source), the J2000 coordinates, a plausible submillimetre spectral index based on SED data from NED, and the corresponding estimated SPIRE flux densities based on the lowest JCMT or SEST measurements. Some sources have both JCMT and SEST data - both are indicated; JCMT data should be taken as more reliable being based on more recent observations and closer in wavelength to SPIRE bands.

Not all of the sources have yet been fully characterised and checked - the ones which have are indicated by a Y in the Ver (Verification) column, and are available for selection as pointing sources. None of the others should be selected until they too have been verified.

The table has a column for Environment (Env). This will contain an indicator of whether there is a potential difficulty in use of a source for pointing calibration arising from background fluctuations in its vicinity. This evaluation has yet to be carried out in detail, but is not expected to be a problem for the initial use of any of the verified sources.

The visibility during Commissioning and PV phases (for the restricted solar aspect angle range) is indicated in the last column.

Based on the extrapolated minimum brightness at 250 μm , source visibilities, and a check of local confusion levels using the HSpot tool, we recommend the following sources as the best ones to be used initially (in order of preference):

- 1 3C273
- 2 0537-441
- 3 0454-463
- 4 3C279
- 5 0506-612

3.2 Special sources – focal plane geometry calibration

Section TBW

Initial notes:

Two special sources have been identified which have special utility as focal-plane geometry calibrators. These are Cygnus-A (Robson et al., Wright et al.) and DG Tau/DG TauB (ref....). Cygnus-A forms a triple source system, with the central core separated from each of the two radio lobes by approximately 1'. DG Tau/DG TauB is a double source, separated by $\sim 57''$.

More sources to be added.

Thomas Mueller has also proposed some asteroid pairs.

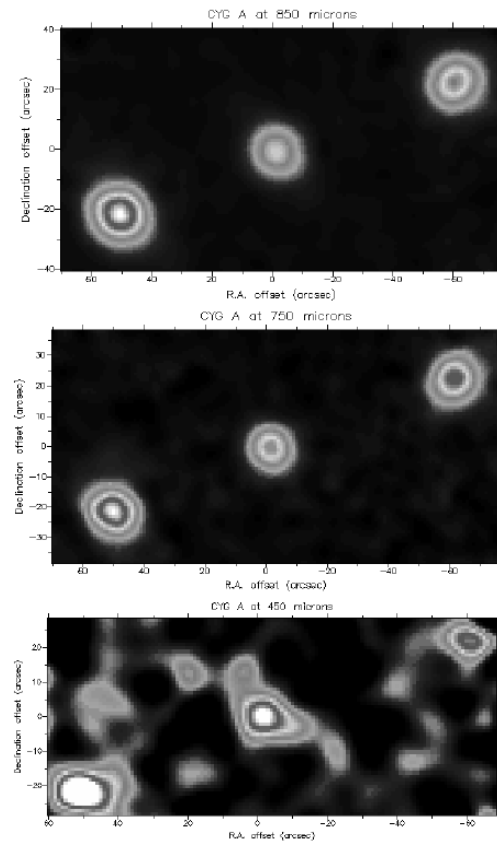


Figure 1 Sub-mm maps of Cyg-A, from Robson et al., 1998

4. List of Annexes

4.1 JCMT Pointing Catalogue

4.2 Adraou et al. table of southern hemisphere pointing sources

4.3 List of potential SPIRE pointing sources

5. References

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- 1 Griffin, M., *Astrometric Accuracy Achievable with SPIRE*, SPIRE-UCF-NOT-001818, Issue 3.0, 19 July 2006
 - 2 Adraou, A et al., *Pointing sources for southern submm telescopes*, *Astron. Astrophys.* 376, 1123, 2001.

Annex 1: JCMT Pointing Catalogue

```

*                               JCMT_CATALOG
*                               =====
* point20081001.cat :
*
*
* This catalogue is the new unified JCMT source catalogue. It can only be
* used in software planes 136 or higher.
*
* SOURCE NAME      (T1, A12)      source name
* LONGITUDE        (T15,A,2I3,F7.3) longitude (sign, hms/dms)
* LATITUDE         (T30,A,2I3,F7.3) latitude (sign, dms)
* COSYS            (T44,A2)       coordinate system code
* VELOCITY         (T46,G12.2)    velocity (km/sec) (?f10.1)
* FLUX             (n/a)          Flux [Jy/beam] or Peak antenna temperature [K]
* VRANGE           (n/a)          velocity range of spectral line
* VEL_DEF          (T70,A3)       velocity definition: LSR, HEL etc.
* FRAME            (T75,A6)       velocity frame of reference RADIO, OPTICAL, RELATIVISTIC
* COMMENTS         (n/a)          range of flux variations, integrated line intensity,
*                               calibration standard, mode of observing etc.
*
* NOTE: The control task expects an entry for each column, even though some entries may never be used
*       (e.g. FLUX, which is informative only). If any of the columns: VELOCITY, FLUX, or VRANGE are
*       not applicable, PLEASE enter n/a in the appropriate column or 0.
*
* The catalogue is organized in the following way:
*
* CONTINUUM POINTING SOURCES
*   BLAZARS I - most of those in the previous catalog
*   BLAZARS II - new from the ICRF lists
*   BLAZARS III - bright (>0.3Jy), northern detections from m04bu23 (Ian Browne)
*   COMPACT HII regions, AGB stars, PMS stars
*   Spectral-line 5-point sources also bright enough for continuum work
* SPECTRAL LINE CALIBRATORS
* SPECTRAL LINE FIVEPOINT SOURCES
*
*-----
* Revisions :
*
* 1996 Jul 09 - original verison (?) (GS)

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- * 1996 Nov 24 - Modified holography source position (REH)
- * 1997 Aug 29 - Modified holography position (RMP/GHLS)
- * 1999 Nov 03 - updated coords to J2000, see notes (IMC - until next change)
- * 2001 Feb 23 - updated 850um fluxes for 'new' blazars
- * 2001 Mar 12 - add need for 120" chop for DG Tau
- * 2001 Jul 02 - updated 0.85mm fluxes based on last 1.5years of data, for
 - * - 76% of original blazars
 - * - 51% of new blazars
 - * - all but 5 continuum (non-blazar) sources
- * 2002 Jan 04 - Several spectral-fivepoint objects were revealed as having
 - * inaccurate coordinates. Previously, SIMBAD coordinates were used.
 - * Size and sense of errors supported adoption of coordinates by
 - * Loup et al (1993, A&AS 99, 291)
 - * (which formed the basis of the 1950.0 version of this catalog).
 - * Loup shows good correlation, for late type stars with HD numbers,
 - * with the Hipparcos catalog.
 - * Particular objects have caught the attention of observing staff
 - * in the last couple of months (CIT6, V370Aur, V636Mon, all stars,
 - * note) and in each case the Loup et al (1993) coordinates would
 - * have provided better service. Previous updates for CIT6, IRC-10502,
 - * GL865 superseded without loss of accuracy by Loup's coordinates.
 - *
- * 2002 Apr 10 - updated HOLO position
- * 2002 May 02 - 2 candidates from EIR added, 1622-2**
- * 2002 Aug 20 - names of 0954+658 and 1739+522 correctly installed
- * 2002 Nov 08 - coordinates for VYCMa & oh231.8 consolidated
- * 2002 Dec 26 - Dec coords for o Ceti corrected - previous update erroneous
- * 2003 Jan 28 - Observatory program targets & Targets-Of-Opportunity removed
- * 2003 Mar 20 - Addition of [c] [s] or [cs] as first characters of Comments field
 - * to indicate utility as c-ontinuum or s-pectral-fivepoint
 - * pointing sources. [cs] is for those suitable for both, with
 - * a limiting brightness for normally [s] sources of 0.2Jy
- * 2003 Jun 09 - 12 sp-line 5-point sources added (suggested by Thomas Lowe)
 - * - 3 sp-line 5-pt sources (WXPsc, oCeti, CIT6) given [c] status also
- * 2003 Jun 20 - VCyg coords consolidated
- * 2004 Mar 29 - 5 additional CO:2-1 spectral-line sources added (courtesy TBL)
- * 2004 May 04 - GL5379 removed - position uncertain by 11" (JW)
- * 2004 Dec 13 - updated 850um fluxes
- * 2004 Dec 14 - addition of bright (>0.3Jy) detections by m04bu23 (Ian Browne)
- * 2004 Dec 19 - o Ceti coords updated to 2005.0 for proper motion
- * 2005 Jan 28 - routine update of blazar brightnesses
- * 2005 Mar 30 - routine update of blazar brightnesses
- * 2005 Apr 19 - add BVPl (courtesy V.Barnard)

* 2005 Jul 01 - rationalization of velocities for L1551-IRS1, OH231.8, NGC6334I
 * 2005 Jul 12 - W3(OH) : position updated to that by ICRS
 * 2005 Sep 12 - offset positions for W3(OH) & L1551-IRS5 corrected
 * 2006 Feb 13 - include 1153+495 (thank you J.Hoge)
 * 2007 Mar 02 - add possible maser source IRC+20326M
 * 2007 May 04 - add comments for G45.1 = G45.07+0.13
 * 2007 Jul 09 - update Loup sources for Hipparcos positions
 * - use p.m.s appropriate for 2010
 * - delete IRC+20326M (spurious); add NGC6563; correct VXSgr
 * 2007 Jul 10 - add 3 stars from m07ai05
 * 2007 Jul 17 - Notes for sp.line pointing sources to include
 * Loup class/quality and Hipparcos update if applicable
 *
 * 2007 Aug 30 - Add bright (IntInt>20K.km/s) Loup sources somehow not already in this catalog:
 * - NGC6072, & IRC+10401 to 'Loup-2', and V384Cep & IILup to L-3
 * 2008 Jan 28 - clarify Int.Int.s for GL230
 * 2008 Aug 28 - remove GL230, V1365Aql, V437Sct following analysis by J.Wouterloot
 * 2008 Sep 09 - change s-pectral l-ine notation from [s] to [l]
 * 2008 Oct 01 - remove GL2374 - duplicate of OH44.1
 * -----
 * CONTINUUM POINTING SOURCES : BLAZARS
 *
 * -----
 *
 * Coordinates for blazars taken from
 * Kuhr et al. 1981 Astr. Ap. Suppl., 45, 367
 * Perley, R.A. 1982 A.J. 87, 859
 * Hewitt & Burbidge 1987 Ap.J. Suppl. 63, 1-246
 * Edelson R.A. 1987 A.J. 94, 1150
 *
 * see <http://www.jach.hawaii.edu/JACpublic/JCMT/pointing/point2000.html>
 * for the contributions of each of these to this catalog, and for
 * the transformations etc leading to this version of the catalog.

| * SOURCE | RA | DEC | EQUI NOX | VEL - | FLUX 0.85mm | RANGE - | FRAME DEF | Comments observed range at 850um |
|----------|--------------|---------------|-------------|----------|----------------|------------|---------------|-------------------------------------|
| 0003-066 | 00 06 13.893 | - 06 23 35.33 | RJ | n/a | 1.0 | n/a | LSR RADIO [c] | 1.7 - 1.1 Jy (2005 Jan) |
| 0048-097 | 00 50 41.318 | - 09 29 05.21 | RJ | n/a | 0.4 | n/a | LSR RADIO [c] | 0.4 - 0.5 Jy (2005 Jan) |
| PKS0106 | 01 08 38.771 | + 01 35 00.32 | RJ | n/a | 0.2 | n/a | LSR RADIO [c] | 0.1 - 0.3 Jy (2004 Aug-Oct) |
| 0133+476 | 01 36 58.595 | + 47 51 29.10 | RJ | n/a | 1.6 | n/a | LSR RADIO [c] | 1.1 - 1.7 Jy (2004 Aug-Dec) |
| 0149+218 | 01 52 18.059 | + 22 07 07.70 | RJ | n/a | 0.3 | n/a | LSR RADIO [c] | 0.3 - Jy (2001 May) |
| 0202+319 | 02 05 04.925 | + 32 12 30.10 | RJ | n/a | 0.2 | n/a | LSR RADIO [c] | 0.2 - Jy (2004 Sep) |
| 0212+735 | 02 17 30.813 | + 73 49 32.62 | RJ | n/a | 0.5 | n/a | LSR RADIO [c] | 0.5 - Jy (2004 Jul) |
| 0215+015 | 02 17 48.955 | + 01 44 49.70 | RJ | n/a | 0.1 | n/a | LSR RADIO [c] | 0.1 - Jy (2004 Jul) |
| 0219+428 | 02 22 39.612 | + 43 02 07.80 | RJ | n/a | 0.3 | n/a | LSR RADIO [c] | 0.3 - Jy (2001 Jul) |
| 0221+067 | 02 24 28.428 | + 06 59 23.34 | RJ | n/a | 0.2 | n/a | LSR RADIO [c] | 0.4 - 0.2 Jy (2001 Jul) |
| 0224+671 | 02 28 50.051 | + 67 21 03.03 | RJ | n/a | 0.3 | n/a | LSR RADIO [c] | 0.2 - 0.4 Jy (2004 Aug-Oct) |
| 0234+285 | 02 37 52.406 | + 28 48 08.99 | RJ | n/a | 1.3 | n/a | LSR RADIO [c] | 1.2 - 1.5 Jy (2004 Sep-Dec) |
| 0235+164 | 02 38 38.930 | + 16 36 59.27 | RJ | n/a | 0.6 | n/a | LSR RADIO [c] | 1.1 - 0.6 Jy (2005 Jan) |
| 0300+471 | 03 03 35.242 | + 47 16 16.28 | RJ | n/a | 0.6 | n/a | LSR RADIO [c] | |
| 0306+102 | 03 09 03.624 | + 10 29 16.34 | RJ | n/a | 0.2 | n/a | LSR RADIO [c] | 0.2 - Jy (2001 Jul) |
| 3C84 | 03 19 48.160 | + 41 30 42.10 | RJ | n/a | 2.4 | n/a | LSR RADIO [c] | 2.2 - 2.6 Jy (2004 Mar-Dec) |
| 0336-019 | 03 39 30.938 | - 01 46 35.80 | RJ | n/a | 0.4 | n/a | LSR RADIO [c] | 0.5 - 0.4 Jy (2004 Sep-Dec) |
| 0355+508 | 03 59 29.747 | + 50 57 50.16 | RJ | n/a | 1.8 | n/a | LSR RADIO [c] | 3.1 - 1.8 Jy (2004 Aug-Dec) |
| 0420-014 | 04 23 15.801 | - 01 20 33.07 | RJ | n/a | 1.8 | n/a | LSR RADIO [c] | 6.1 - 1.8 Jy (2004 Jan-Dec) |
| 0422+004 | 04 24 46.842 | + 00 36 06.33 | RJ | n/a | 0.7 | n/a | LSR RADIO [c] | |
| 3C120 | 04 33 11.096 | + 05 21 15.62 | RJ | n/a | 0.3 | n/a | LSR RADIO [c] | 0.3 - Jy (2001 Jul) |
| PKS0438 | 04 40 17.180 | - 43 33 08.60 | RJ | n/a | 0.4 | n/a | LSR RADIO [c] | |
| 0454-234 | 04 57 03.179 | - 23 24 52.02 | RJ | n/a | 0.7 | n/a | LSR RADIO [c] | 0.6 - 0.8 Jy (2004 Mar-Dec) |
| 0458-020 | 05 01 12.810 | - 01 59 14.26 | RJ | n/a | 0.2 | n/a | LSR RADIO [c] | 0.5 - 0.2 Jy (2005 Jan) |
| 0521-365 | 05 22 57.985 | - 36 27 30.85 | RJ | n/a | 0.5 | n/a | LSR RADIO [c] | 2.5 - 0.5 Jy (2001 Jul) |
| 0528+134 | 05 30 56.417 | + 13 31 55.15 | RJ | n/a | 1.3 | n/a | LSR RADIO [c] | 0.8 - 1.3 Jy (2004 Feb-Dec) |
| 0529+075 | 05 32 38.998 | + 07 32 43.35 | RJ | n/a | 0.4 | n/a | LSR RADIO [c] | 0.4 - Jy (2004 Feb) |
| PKS0537 | 05 38 50.362 | - 44 05 08.94 | RJ | n/a | 2.3 | n/a | LSR RADIO [c] | 2.3 - Jy (2004 Mar) |
| 0552+398 | 05 55 30.806 | + 39 48 49.17 | RJ | n/a | 0.4 | n/a | LSR RADIO [c] | 0.3 - 0.4 Jy (2004 Mar-Nov) |
| 0605-085 | 06 07 59.699 | - 08 34 49.98 | RJ | n/a | 0.4 | n/a | LSR RADIO [c] | 0.4 - Jy (2003 Nov) |
| 0607-157 | 06 09 40.950 | - 15 42 40.67 | RJ | n/a | 1.0 | n/a | LSR RADIO [c] | 1.0 - Jy (2004 Jan) |
| 0642+449 | 06 46 32.026 | + 44 51 16.59 | RJ | n/a | 0.3 | n/a | LSR RADIO [c] | 0.4 - 0.3 Jy (2004 Mar-Oct) |
| 0716+714 | 07 21 53.448 | + 71 20 36.36 | RJ | n/a | 1.7 | n/a | LSR RADIO [c] | 2.5 - 1.6 Jy (2004 Mar-Dec) |
| 0727-115 | 07 30 19.112 | - 11 41 12.60 | RJ | n/a | 0.8 | n/a | LSR RADIO [c] | 0.8 - Jy (2004 Mar) |
| 0735+178 | 07 38 07.394 | + 17 42 19.00 | RJ | n/a | 0.4 | n/a | LSR RADIO [c] | 0.5 - Jy (2004 Jan-Nov) |
| 0736+017 | 07 39 18.034 | + 01 37 04.62 | RJ | n/a | 0.6 | n/a | LSR RADIO [c] | 3.4 - 0.6 Jy (2004 Jan-Nov) |
| 0745+241 | 07 48 36.109 | + 24 00 24.11 | RJ | n/a | 0.3 | n/a | LSR RADIO [c] | 0.3 - 0.4 Jy (2004 Nov) |

| | | | | | | | |
|----------|-------------------------------|-----|-----|-----|---------------|-----------|-------------------|
| 0748+126 | 07 50 52.046 + 12 31 04.83 RJ | n/a | 0.3 | n/a | LSR RADIO [c] | 0.3 - | Jy (2001 Jul) |
| 0754+100 | 07 57 06.643 + 09 56 34.85 RJ | n/a | 1.0 | n/a | LSR RADIO [c] | 1.0 - 1.1 | Jy (2004 Jan) |
| 0829+046 | 08 31 48.877 + 04 29 39.09 RJ | n/a | 0.5 | n/a | LSR RADIO [c] | 0.2 - 0.5 | Jy (2004 Jan-Sep) |
| 0836+710 | 08 41 24.365 + 70 53 42.17 RJ | n/a | 0.4 | n/a | LSR RADIO [c] | 0.7 - 0.4 | Jy (2004 Mar-Nov) |
| OJ287 | 08 54 48.875 + 20 06 30.64 RJ | n/a | 4.0 | n/a | LSR RADIO [c] | 3.3 - 5.1 | Jy (2004 Mar) |
| 0917+449 | 09 20 58.458 + 44 41 53.99 RJ | n/a | 0.2 | n/a | LSR RADIO [c] | 0.2 - | Jy (2001 Jul) |
| 0923+392 | 09 27 03.014 + 39 02 20.85 RJ | n/a | 1.0 | n/a | LSR RADIO [c] | 1.0 - 1.3 | Jy (2005 Mar) |
| 0954+658 | 09 58 47.245 + 65 33 54.82 RJ | n/a | 1.0 | n/a | LSR RADIO [c] | 0.5 - 1.0 | Jy (2005 Mar) |
| 1034-293 | 10 37 16.080 - 29 34 02.81 RJ | n/a | 0.5 | n/a | LSR RADIO [c] | 0.4 - 0.5 | Jy (2004 Sep) |
| 1044+719 | 10 48 27.620 + 71 43 35.94 RJ | n/a | 0.9 | n/a | LSR RADIO [c] | 0.3 - 1.2 | Jy (2004 Jan-Dec) |
| 1055+018 | 10 58 29.605 + 01 33 58.82 RJ | n/a | 0.7 | n/a | LSR RADIO [c] | 3.1 - 0.7 | Jy (2005 Mar) |
| 1147+245 | 11 50 19.212 + 24 17 53.84 RJ | n/a | 0.5 | n/a | LSR RADIO [c] | 0.4 - 0.5 | Jy (2004 Jan) |
| 1153+495 | 11 53 24.467 + 49 31 08.83 RJ | n/a | 1.5 | n/a | LSR RADIO [c] | 1.5 - | Jy (2005 Dec) |
| 1156+295 | 11 59 31.834 + 29 14 43.83 RJ | n/a | 0.3 | n/a | LSR RADIO [c] | 0.2 - 0.4 | Jy (2004 Mar) |
| 1213-172 | 12 15 46.752 - 17 31 45.40 RJ | n/a | 0.2 | n/a | LSR RADIO [c] | 0.2 - 0.3 | Jy (2001 Jul) |
| 3C273 | 12 29 06.700 + 02 03 08.60 RJ | n/a | 2.1 | n/a | LSR RADIO [c] | 2.1 - 4.2 | Jy (2005 Mar) |
| VirgoA | 12 30 49.423 + 12 23 28.04 RJ | n/a | 1.9 | n/a | LSR RADIO [c] | 1.8 - 1.9 | Jy (2004 Jan-Dec) |
| 3C279 | 12 56 11.167 - 05 47 21.52 RJ | n/a | 3.4 | n/a | LSR RADIO [c] | 3.4 - 7.6 | Jy (2005 Mar) |
| 1308+326 | 13 10 28.664 + 32 20 43.78 RJ | n/a | 0.5 | n/a | LSR RADIO [c] | 1.3 - 0.4 | Jy (2005 Jan) |
| 1313-333 | 13 16 07.986 - 33 38 59.17 RJ | n/a | 0.5 | n/a | LSR RADIO [c] | 0.5 - | Jy (2004 Feb) |
| 1334-127 | 13 37 39.783 - 12 57 24.69 RJ | n/a | 2.4 | n/a | LSR RADIO [c] | 3.8 - 2.4 | Jy (2004 Sep-Dec) |
| 1413+135 | 14 15 58.817 + 13 20 23.71 RJ | n/a | 0.4 | n/a | LSR RADIO [c] | 0.4 - | Jy (2004 Mar) |
| 1418+546 | 14 19 46.597 + 54 23 14.78 RJ | n/a | 0.4 | n/a | LSR RADIO [c] | 0.8 - 0.3 | Jy (2004 Jan-Dec) |
| 1510-089 | 15 12 50.533 - 09 05 59.83 RJ | n/a | 0.9 | n/a | LSR RADIO [c] | 0.4 - 0.9 | Jy (2004 Mar-Dec) |
| 1514-241 | 15 17 41.813 - 24 22 19.48 RJ | n/a | 1.0 | n/a | LSR RADIO [c] | 0.9 - 1.1 | Jy (2003 May-Jul) |
| 1538+149 | 15 40 49.492 + 14 47 45.88 RJ | n/a | 0.3 | n/a | LSR RADIO [c] | 0.3 - | Jy (2003 Jun) |
| 1548+056 | 15 50 35.269 + 05 27 10.45 RJ | n/a | 0.6 | n/a | LSR RADIO [c] | 0.6 - 0.8 | Jy (2004 Dec) |
| 1606+106 | 16 08 46.203 + 10 29 07.78 RJ | n/a | 0.2 | n/a | LSR RADIO [c] | 0.2 - 0.3 | Jy (2004 Mar) |
| 1611+343 | 16 13 41.064 + 34 12 47.91 RJ | n/a | 0.6 | n/a | LSR RADIO [c] | 0.8 - 0.6 | Jy (2004 Sep-Dec) |
| 1622-253 | 16 25 46.892 - 25 27 38.33 RJ | n/a | 0.5 | n/a | LSR RADIO [c] | 0.5 - | Jy (2002 May) |
| 1622-297 | 16 26 06.021 - 29 51 26.97 RJ | n/a | 0.3 | n/a | LSR RADIO [c] | 0.3 - | Jy (2002 May) |
| 1633+382 | 16 35 15.493 + 38 08 04.50 RJ | n/a | 0.8 | n/a | LSR RADIO [c] | 1.6 - 0.8 | Jy (2005 Mar) |
| 3C345 | 16 42 58.810 + 39 48 36.99 RJ | n/a | 1.5 | n/a | LSR RADIO [c] | 2.0 - 1.5 | Jy (2004 Jan-Sep) |
| 1657-261 | 17 00 53.154 - 26 10 51.72 RJ | n/a | 0.2 | n/a | LSR RADIO [c] | 0.2 - | Jy (2001 Apr) |
| 1730-130 | 17 33 02.706 - 13 04 49.55 RJ | n/a | 1.1 | n/a | LSR RADIO [c] | 1.5 - 1.1 | Jy (2004 Jan-Sep) |
| 1739+522 | 17 40 36.978 + 52 11 43.41 RJ | n/a | 0.1 | n/a | LSR RADIO [c] | 0.3 - 0.1 | Jy (2001 Jul) |
| 1741-038 | 17 43 58.856 - 03 50 04.62 RJ | n/a | 1.9 | n/a | LSR RADIO [c] | 2.1 - 1.9 | Jy (2003 May-Jul) |
| 1749+096 | 17 51 32.819 + 09 39 00.73 RJ | n/a | 0.3 | n/a | LSR RADIO [c] | 1.2 - 0.3 | Jy (2001 Jul) |
| 1749+701 | 17 48 32.840 + 70 05 50.77 RJ | n/a | 0.2 | n/a | LSR RADIO [c] | 0.2 - | (2001 May) |
| 1803+784 | 18 00 45.684 + 78 28 04.02 RJ | n/a | 0.7 | n/a | LSR RADIO [c] | 0.6 - 0.8 | Jy (2003 May-Jul) |
| 1807+698 | 18 06 50.681 + 69 49 28.11 RJ | n/a | 0.9 | n/a | LSR RADIO [c] | 0.9 - 1.0 | Jy (2003 May-Jul) |
| 1823+568 | 18 24 07.068 + 56 51 01.49 RJ | n/a | 1.0 | n/a | LSR RADIO [c] | 0.5 - 1.1 | Jy (2005 Mar) |
| 1908-202 | 19 11 09.653 - 20 06 55.11 RJ | n/a | 0.7 | n/a | LSR RADIO [c] | 0.7 - | Jy (2001 May) |

| | | | | | | | | | |
|----------|----------------------------|----|-----|-----|-----|-----|-----------|-----------|-------------------|
| 1921-293 | 19 24 51.056 - 29 14 30.12 | RJ | n/a | 4.0 | n/a | LSR | RADIO [c] | 5.0 - 4.0 | Jy (2003 May-Dec) |
| 1923+210 | 19 25 59.605 + 21 06 26.16 | RJ | n/a | 0.4 | n/a | LSR | RADIO [c] | 0.4 - | Jy (2004 Nov) |
| 1928+738 | 19 27 48.495 + 73 58 01.57 | RJ | n/a | 0.4 | n/a | LSR | RADIO [c] | 0.4 - | Jy (2001 Jul) |
| 1958-179 | 20 00 57.090 - 17 48 57.67 | RJ | n/a | 0.5 | n/a | LSR | RADIO [c] | 0.5 - 0.8 | Jy (2001 Jul) |
| 2005+403 | 20 07 44.945 + 40 29 48.60 | RJ | n/a | 0.7 | n/a | LSR | RADIO [c] | 0.7 - | Jy (2003 Jul) |
| 2007+776 | 20 05 30.999 + 77 52 43.25 | RJ | n/a | 0.3 | n/a | LSR | RADIO [c] | 0.5 - 0.3 | Jy (2001 Jul) |
| 2008-159 | 20 11 15.711 - 15 46 40.25 | RJ | n/a | 0.4 | n/a | LSR | RADIO [c] | 0.4 - | Jy (2004 Oct) |
| 2021+317 | 20 23 19.017 + 31 53 02.31 | RJ | n/a | 0.3 | n/a | LSR | RADIO [c] | 0.3 - | Jy (2001 Jul) |
| 2037+511 | 20 38 37.035 + 51 19 12.66 | RJ | n/a | 0.4 | n/a | LSR | RADIO [c] | 0.4 - 0.5 | Jy (2004 Mar-Aug) |
| 2059+034 | 21 01 38.834 + 03 41 31.32 | RJ | n/a | 0.5 | n/a | LSR | RADIO [c] | | |
| 2134+004 | 21 36 38.586 + 00 41 54.21 | RJ | n/a | 0.7 | n/a | LSR | RADIO [c] | 0.5 - 0.7 | Jy |
| 2145+067 | 21 48 05.459 + 06 57 38.60 | RJ | n/a | 0.2 | n/a | LSR | RADIO [c] | 3.0 - 0.2 | Jy (2004 Dec) |
| 2155-304 | 21 58 52.065 - 30 13 32.12 | RJ | n/a | 0.1 | n/a | LSR | RADIO [c] | 0.1 - | Jy (2001 Jul) |
| 2155-152 | 21 58 06.282 - 15 01 09.33 | RJ | n/a | 0.5 | n/a | LSR | RADIO [c] | 0.5 - 0.6 | Jy (2004 Nov) |
| BLLAC | 22 02 43.291 + 42 16 39.98 | RJ | n/a | 4.4 | n/a | LSR | RADIO [c] | 1.1 - 4.4 | Jy (2004 Aug-Dec) |
| 2201+315 | 22 03 14.976 + 31 45 38.27 | RJ | n/a | 0.4 | n/a | LSR | RADIO [c] | 0.4 - | Jy (2004 Oct) |
| 2223-052 | 22 25 47.259 - 04 57 01.39 | RJ | n/a | 1.3 | n/a | LSR | RADIO [c] | 1.1 - 1.3 | Jy (2004 Sep-Dec) |
| 2227-088 | 22 29 40.084 - 08 32 54.44 | RJ | n/a | 0.5 | n/a | LSR | RADIO [c] | 0.5 - | Jy (2004 Aug) |
| 2230+114 | 22 32 36.409 + 11 43 50.90 | RJ | n/a | 3.3 | n/a | LSR | RADIO [c] | 3.5 - 3.3 | Jy (2004 Dec) |
| 2243-123 | 22 46 18.232 - 12 06 51.28 | RJ | n/a | 0.5 | n/a | LSR | RADIO [c] | 0.4 - 0.5 | Jy (2001 Jul) |
| 2251+158 | 22 53 57.748 + 16 08 53.56 | RJ | n/a | 7.0 | n/a | LSR | RADIO [c] | 3.4 - 7.0 | Jy (2004 Sep-Dec) |
| 2255-282 | 22 58 05.963 - 27 58 21.26 | RJ | n/a | 0.7 | n/a | LSR | RADIO [c] | 1.0 - 0.7 | Jy (2004 Nov) |
| 2318+049 | 23 20 44.857 + 05 13 49.95 | RJ | n/a | 0.1 | n/a | LSR | RADIO [c] | 0.1 - 0.2 | Jy (2005 Jan) |
| 2345-167 | 23 48 02.609 - 16 31 12.02 | RJ | n/a | 0.5 | n/a | LSR | RADIO [c] | | |

*

* The 6 sources below were not carried over from the original (RB) version
 * due to inaccuracies in their positions, but they are repeated here in
 * case of desperation - 3c111 and CenA in particular are too strong to
 * discard completely.

*

| | | | | | | | | | |
|----------|----------------------------|----|-----|-----|-----|-----|-----------|-----------|-------------------|
| 3C111 | 04 15 00.61 + 37 54 19.5 | RB | n/a | 1.4 | n/a | LSR | RADIO [c] | 1.4 - | Jy (2004 Aug) |
| 0954+556 | 09 54 14.355 + 55 37 16.35 | RB | n/a | 0.2 | n/a | LSR | RADIO [c] | 2.6 - 0.2 | Jy (2005 Jan) |
| 1219+285 | 12 19 01.12 + 28 30 36.45 | RB | n/a | 0.3 | n/a | LSR | RADIO [c] | 0.2 - 0.4 | Jy (2001 Jul) |
| CENA | 13 22 31.8 - 42 45 30.0 | RB | n/a | 9.9 | n/a | LSR | RADIO [c] | 7.3 - 9.9 | Jy (2003 May-Jul) |
| 1716+686 | 17 16 27.84 + 68 39 48.3 | RB | n/a | 0.3 | n/a | LSR | RADIO [c] | 0.3 - | Jy (2004 Oct) |
| CygA | 19 57 44.6 + 40 35 45.9 | RB | n/a | 0.7 | n/a | LSR | RADIO [c] | | |

*

* 76 of the next 78 blazars are new to this version of the catalog
 * see <http://www.jach.hawaii.edu/JACpublic/JCMT/pointing/point2000.html>
 * for a description of their inclusion.
 * Two (0106+013 and 0430+052) are already listed above by their familiars
 * PKS0106 and 3c120).
 * fluxes listed are either :

* - the most recent determinations at 850um at JCMT
 * in which case the date of the last measure and the ranges of previous measures
 * are shown in the last column, or
 * - they are (the original) extrapolations from other wavelengths.
 * These proved to be overly optimistic by about x2,
 * so were reduced now by this factor, with a minimum of 0.2 Jy
 * so as to encourage at least one observation.

* -----
 * BLAZARS II

| *SOURCE | RA | DEC | EQUI NOX | VEL - | FLUX 0.85mm | RANGE - | FRAME DEF | Comments observed range at 850um |
|----------|--------------|---------------|-------------|----------|----------------|------------|---------------|-------------------------------------|
| 0016+731 | 00 19 45.786 | + 73 27 30.02 | RJ | n/a | 0.2 | n/a | LSR RADIO [c] | 0.2 - 0.4 Jy (2001 Jul) |
| 0035+413 | 00 38 24.844 | + 41 37 06.00 | RJ | n/a | 0.1 | n/a | LSR RADIO [c] | 0.1 - Jy (2001 Jul) |
| 0106+013 | 01 08 38.771 | + 01 35 00.32 | RJ | n/a | 0.2 | n/a | LSR RADIO [c] | 0.3 - 0.2 Jy (2004 Aug-Oct) |
| 0112-017 | 01 15 17.100 | - 01 27 04.58 | RJ | n/a | 0.3 | n/a | LSR RADIO [c] | |
| 0119+041 | 01 21 56.862 | + 04 22 24.73 | RJ | n/a | 0.2 | n/a | LSR RADIO [c] | 0.2 - Jy (2000 Aug) |
| 0134+329 | 01 37 41.299 | + 33 09 35.13 | RJ | n/a | 0.5 | n/a | LSR RADIO [c] | 0.1 - 0.5 Jy (2005 Jan) |
| 0135-247 | 01 37 38.347 | - 24 30 53.89 | RJ | n/a | 0.7 | n/a | LSR RADIO [c] | 0.7 - Jy (2004 Jan) |
| 0138-097 | 01 41 25.832 | - 09 28 43.67 | RJ | n/a | 0.2 | n/a | LSR RADIO [c] | 0.2 - Jy (2004 Jan) |
| 0229+131 | 02 31 45.894 | + 13 22 54.72 | RJ | n/a | 0.1 | n/a | LSR RADIO [c] | 0.1 - Jy (2001 Jul) |
| 0239+108 | 02 42 29.171 | + 11 01 00.73 | RJ | n/a | 0.2 | n/a | LSR RADIO [c] | |
| 0333+321 | 03 36 30.108 | + 32 18 29.34 | RJ | n/a | 0.3 | n/a | LSR RADIO [c] | 0.3 - Jy (1999 Nov) |
| 0338-214 | 03 40 35.608 | - 21 19 31.17 | RJ | n/a | 0.4 | n/a | LSR RADIO [c] | 0.6 - 0.4 Jy (2005 Jan) |
| 0414-189 | 04 16 36.544 | - 18 51 08.34 | RJ | n/a | 0.2 | n/a | LSR RADIO [c] | |
| 0430+052 | 04 33 11.096 | + 05 21 15.62 | RJ | n/a | 0.3 | n/a | LSR RADIO [c] | 0.3 - Jy (2001 Jul) |
| 0511-220 | 05 13 49.114 | - 21 59 16.09 | RJ | n/a | 0.2 | n/a | LSR RADIO [c] | |
| 0518+165 | 05 21 09.886 | + 16 38 22.05 | RJ | n/a | 0.2 | n/a | LSR RADIO [c] | |
| 0538+498 | 05 42 36.138 | + 49 51 07.23 | RJ | n/a | 0.2 | n/a | LSR RADIO [c] | |
| 0539-057 | 05 41 38.083 | - 05 41 49.43 | RJ | n/a | 0.1 | n/a | LSR RADIO [c] | 0.1 - Jy (2003 Sep) |
| 0648-165 | 06 50 24.582 | - 16 37 39.73 | RJ | n/a | 0.2 | n/a | LSR RADIO [c] | |
| 0723-008 | 07 25 50.640 | - 00 54 56.54 | RJ | n/a | 0.5 | n/a | LSR RADIO [c] | 0.5 - Jy (2003 Oct-Dec) |
| 0742+103 | 07 45 33.060 | + 10 11 12.69 | RJ | n/a | 0.2 | n/a | LSR RADIO [c] | |
| 0743-006 | 07 45 54.082 | - 00 44 15.54 | RJ | n/a | 0.2 | n/a | LSR RADIO [c] | |
| 0808+019 | 08 11 26.707 | + 01 46 52.22 | RJ | n/a | 0.3 | n/a | LSR RADIO [c] | |
| 0814+425 | 08 18 16.000 | + 42 22 45.41 | RJ | n/a | 0.3 | n/a | LSR RADIO [c] | 0.3 - Jy (2004 Oct) |
| 0818-128 | 08 20 57.448 | - 12 58 59.17 | RJ | n/a | 0.2 | n/a | LSR RADIO [c] | 0.2 - Jy (2000 Sep) |
| 0823+033 | 08 25 50.338 | + 03 09 24.52 | RJ | n/a | 0.6 | n/a | LSR RADIO [c] | 0.6 - Jy (2004 Jan) |
| 0828+493 | 08 32 23.217 | + 49 13 21.04 | RJ | n/a | 0.1 | n/a | LSR RADIO [c] | 0.3 - 0.1 Jy (2004 Aug-Sep) |
| 0859+470 | 09 03 03.990 | + 46 51 04.14 | RJ | n/a | 0.2 | n/a | LSR RADIO [c] | 0.2 - Jy (2001 Jul) |
| 0859-140 | 09 02 16.831 | - 14 15 30.88 | RJ | n/a | 0.2 | n/a | LSR RADIO [c] | |
| 0906+015 | 09 09 10.092 | + 01 21 35.62 | RJ | n/a | 0.2 | n/a | LSR RADIO [c] | |

| | | | | | | | | | |
|----------|----------------------------|----|-----|-----|-----|-----|-----------|-----------|-------------------|
| 0917+624 | 09 21 36.231 + 62 15 52.18 | RJ | n/a | 0.2 | n/a | LSR | RADIO [c] | 0.2 - | Jy (2001 Feb) |
| 0919-260 | 09 21 29.354 - 26 18 43.39 | RJ | n/a | 0.1 | n/a | LSR | RADIO [c] | 0.1 - | Jy (2001 Jul) |
| 0925-203 | 09 27 51.824 - 20 34 51.23 | RJ | n/a | 0.3 | n/a | LSR | RADIO [c] | 0.3 - | Jy (2004 Apr) |
| 0955+326 | 09 58 20.950 + 32 24 02.21 | RJ | n/a | 0.2 | n/a | LSR | RADIO [c] | | |
| 1011+250 | 10 13 53.429 + 24 49 16.44 | RJ | n/a | 0.2 | n/a | LSR | RADIO [c] | | |
| 1012+232 | 10 14 47.065 + 23 01 16.57 | RJ | n/a | 0.3 | n/a | LSR | RADIO [c] | 0.3 - | Jy (2004 Jan) |
| 1053+815 | 10 58 11.535 + 81 14 32.68 | RJ | n/a | 0.3 | n/a | LSR | RADIO [c] | 0.3 - | Jy (2001 Feb) |
| 1116+128 | 11 18 57.301 + 12 34 41.72 | RJ | n/a | 0.1 | n/a | LSR | RADIO [c] | 0.3 - 0.1 | Jy (2005 Jan) |
| 1124-186 | 11 27 04.392 - 18 57 17.44 | RJ | n/a | 0.7 | n/a | LSR | RADIO [c] | 0.7 - | Jy (2003 May) |
| 1127-145 | 11 30 07.053 - 14 49 27.39 | RJ | n/a | 0.2 | n/a | LSR | RADIO [c] | | |
| 1128+385 | 11 30 53.283 + 38 15 18.55 | RJ | n/a | 0.3 | n/a | LSR | RADIO [c] | 0.3 - | Jy (2004 Jan) |
| 1144+402 | 11 46 58.298 + 39 58 34.30 | RJ | n/a | 0.4 | n/a | LSR | RADIO [c] | 0.4 - 0.6 | Jy (2005 Jan) |
| 1148-001 | 11 50 43.871 - 00 23 54.20 | RJ | n/a | 0.2 | n/a | LSR | RADIO [c] | | |
| 1216+487 | 12 19 06.415 + 48 29 56.16 | RJ | n/a | 0.2 | n/a | LSR | RADIO [c] | 0.2 - | Jy (2003 Dec) |
| 1222+037 | 12 24 52.422 + 03 30 50.29 | RJ | n/a | 0.1 | n/a | LSR | RADIO [c] | 0.1 - | Jy (2001 Jul) |
| 1243-072 | 12 46 04.232 - 07 30 46.57 | RJ | n/a | 0.3 | n/a | LSR | RADIO [c] | | |
| 1244-255 | 12 46 46.802 - 25 47 49.29 | RJ | n/a | 0.6 | n/a | LSR | RADIO [c] | 0.6 - | Jy (2003 Jun) |
| 1252+119 | 12 54 38.256 + 11 41 05.90 | RJ | n/a | 0.2 | n/a | LSR | RADIO [c] | | |
| 1302-102 | 13 05 33.015 - 10 33 19.43 | RJ | n/a | 0.7 | n/a | LSR | RADIO [c] | | |
| 1328+307 | 13 31 08.288 + 30 30 32.96 | RJ | n/a | 0.3 | n/a | LSR | RADIO [c] | 0.3 - | Jy (2000 Feb) |
| 1345+125 | 13 47 33.362 + 12 17 24.24 | RJ | n/a | 0.2 | n/a | LSR | RADIO [c] | | |
| 1354-152 | 13 57 11.245 - 15 27 28.79 | RJ | n/a | 0.2 | n/a | LSR | RADIO [c] | | |
| 1354+195 | 13 57 04.437 + 19 19 07.37 | RJ | n/a | 0.6 | n/a | LSR | RADIO [c] | 0.6 - | Jy (2004 Mar) |
| 1502+106 | 15 04 24.980 + 10 29 39.20 | RJ | n/a | 0.2 | n/a | LSR | RADIO [c] | 0.2 - | Jy (2004 Dec) |
| 1504-166 | 15 07 04.787 - 16 52 30.27 | RJ | n/a | 0.3 | n/a | LSR | RADIO [c] | | |
| 1511-100 | 15 13 44.893 - 10 12 00.26 | RJ | n/a | 0.2 | n/a | LSR | RADIO [c] | | |
| 1519-273 | 15 22 37.676 - 27 30 10.79 | RJ | n/a | 0.3 | n/a | LSR | RADIO [c] | | |
| 1600+335 | 16 02 07.263 + 33 26 53.07 | RJ | n/a | 0.1 | n/a | LSR | RADIO [c] | | |
| 1637+574 | 16 38 13.456 + 57 20 23.98 | RJ | n/a | 0.9 | n/a | LSR | RADIO [c] | 0.8 - 1.0 | Jy (2004 Jan) |
| 1638+398 | 16 40 29.633 + 39 46 46.03 | RJ | n/a | 0.1 | n/a | LSR | RADIO [c] | | |
| 1642+690 | 16 42 07.849 + 68 56 39.76 | RJ | n/a | 0.6 | n/a | LSR | RADIO [c] | 0.6 - | Jy (2004 Jan) |
| 1655+077 | 16 58 09.011 + 07 41 27.54 | RJ | n/a | 0.4 | n/a | LSR | RADIO [c] | 0.3 - 0.4 | Jy (2001 Jul) |
| 1656+477 | 16 58 02.780 + 47 37 49.23 | RJ | n/a | 0.2 | n/a | LSR | RADIO [c] | 0.1 - 0.2 | Jy (2001 Jul) |
| 1717+178 | 17 19 13.048 + 17 45 06.44 | RJ | n/a | 0.3 | n/a | LSR | RADIO [c] | 0.3 - | Jy (2003 May) |
| 1743+173 | 17 45 35.208 + 17 20 01.42 | RJ | n/a | 0.2 | n/a | LSR | RADIO [c] | | |
| 1758+388 | 18 00 24.765 + 38 48 30.70 | RJ | n/a | 0.1 | n/a | LSR | RADIO [c] | 0.2 - 0.1 | Jy (2001 Jul) |
| 1800+440 | 18 01 32.315 + 44 04 21.90 | RJ | n/a | 1.4 | n/a | LSR | RADIO [c] | 1.3 - 1.4 | Jy (2003 May-Jul) |
| 1842+681 | 18 42 33.642 + 68 09 25.23 | RJ | n/a | 0.3 | n/a | LSR | RADIO [c] | | |
| 1954+513 | 19 55 42.738 + 51 31 48.55 | RJ | n/a | 0.3 | n/a | LSR | RADIO [c] | 0.3 - 0.2 | Jy (2005 Jan) |
| 2021+614 | 20 22 06.682 + 61 36 58.80 | RJ | n/a | 0.2 | n/a | LSR | RADIO [c] | | |
| 2121+053 | 21 23 44.517 + 05 35 22.09 | RJ | n/a | 0.4 | n/a | LSR | RADIO [c] | 0.7 - 0.4 | Jy (2001 Jul) |
| 2128-123 | 21 31 35.262 - 12 07 04.80 | RJ | n/a | 0.2 | n/a | LSR | RADIO [c] | | |
| 2131-021 | 21 34 10.310 - 01 53 17.24 | RJ | n/a | 0.4 | n/a | LSR | RADIO [c] | | |

| | | | | | | | | | | | |
|----------|--------------|---------------|----|-----|-----|-----|-----|-------|-----|-----|---------------|
| 2210-257 | 22 13 02.498 | - 25 29 30.08 | RJ | n/a | 0.2 | n/a | LSR | RADIO | [c] | | |
| 2216-038 | 22 18 52.038 | - 03 35 36.88 | RJ | n/a | 0.2 | n/a | LSR | RADIO | [c] | | |
| 2229+695 | 22 30 36.470 | + 69 46 28.08 | RJ | n/a | 0.1 | n/a | LSR | RADIO | [c] | 0.1 | Jy (2001 Jul) |
| 2234+282 | 22 36 22.471 | + 28 28 57.41 | RJ | n/a | 0.5 | n/a | LSR | RADIO | [c] | 0.5 | Jy (2004 Aug) |
| 2344+092 | 23 46 36.839 | + 09 30 45.51 | RJ | n/a | 0.2 | n/a | LSR | RADIO | [c] | | |

*

* BLAZARS III - coordinates from ICRF (Ma et al AJ 116, 516)

| *SOURCE | RA | DEC | EQUI | VEL | FLUX | RANGE | FRAME | DEF | Comments |
|----------|-------------|---------------|------|-----|--------|-------|-------|-------|-------------------------|
| * | | | NOX | - | 0.85mm | - | | | observed range at 850um |
| 0010+405 | 00 13 31.13 | + 40 51 37.14 | RJ | n/a | 0.3 | n/a | LSR | RADIO | [c] 0.3 - Jy (2004 Aug) |
| 0110+495 | 01 13 27.01 | + 49 48 24.04 | RJ | n/a | 0.3 | n/a | LSR | RADIO | [c] 0.3 - Jy (2004 Aug) |
| 0218+357 | 02 21 05.47 | + 35 56 13.70 | RJ | n/a | 0.3 | n/a | LSR | RADIO | [c] 0.3 - Jy (2004 Oct) |
| 0227+403 | 02 30 45.70 | + 40 32 53.08 | RJ | n/a | 0.3 | n/a | LSR | RADIO | [c] 0.3 - Jy (2004 Aug) |
| 0309+411 | 03 13 01.96 | + 41 20 01.19 | RJ | n/a | 0.5 | n/a | LSR | RADIO | [c] 0.5 - Jy (2004 Aug) |
| 0444+634 | 04 49 23.31 | + 63 32 09.43 | RJ | n/a | 0.5 | n/a | LSR | RADIO | [c] 0.5 - Jy (2004 Aug) |
| 0707+476 | 07 10 46.10 | + 47 32 11.14 | RJ | n/a | 0.3 | n/a | LSR | RADIO | [c] 0.3 - Jy (2004 Aug) |
| 0714+457 | 07 17 51.85 | + 45 38 03.25 | RJ | n/a | 0.3 | n/a | LSR | RADIO | [c] 0.3 - Jy (2004 Aug) |
| 0749+540 | 07 53 01.38 | + 53 52 59.64 | RJ | n/a | 0.3 | n/a | LSR | RADIO | [c] 0.3 - Jy (2004 Aug) |
| 0804+499 | 08 08 39.67 | + 49 50 36.53 | RJ | n/a | 0.4 | n/a | LSR | RADIO | [c] 0.4 - Jy (2004 Aug) |
| 1030+611 | 10 33 51.43 | + 60 51 07.33 | RJ | n/a | 0.3 | n/a | LSR | RADIO | [c] 0.3 - Jy (2004 Sep) |
| 1053+704 | 10 56 53.62 | + 70 11 45.92 | RJ | n/a | 0.4 | n/a | LSR | RADIO | [c] 0.4 - Jy (2004 Dec) |
| 1636+473 | 16 37 45.13 | + 47 17 33.84 | RJ | n/a | 0.3 | n/a | LSR | RADIO | [c] 0.3 - Jy (2004 Aug) |
| 1700+685 | 17 00 09.29 | + 68 30 06.96 | RJ | n/a | 0.3 | n/a | LSR | RADIO | [c] 0.3 - Jy (2004 Aug) |
| 1732+389 | 17 34 20.58 | + 38 57 51.44 | RJ | n/a | 0.4 | n/a | LSR | RADIO | [c] 0.3 - Jy (2004 Aug) |
| 1849+670 | 18 49 16.07 | + 67 05 41.68 | RJ | n/a | 0.4 | n/a | LSR | RADIO | [c] 0.4 - Jy (2004 Aug) |
| 1926+611 | 19 27 30.44 | + 61 17 32.88 | RJ | n/a | 0.3 | n/a | LSR | RADIO | [c] 0.3 - Jy (2004 Aug) |
| 2023+760 | 20 22 35.58 | + 76 11 26.18 | RJ | n/a | 0.3 | n/a | LSR | RADIO | [c] 0.3 - Jy (2004 Aug) |
| 2351+456 | 23 54 21.68 | + 45 53 04.24 | RJ | n/a | 0.3 | n/a | LSR | RADIO | [c] 0.3 - Jy (2004 Aug) |

*

* CONTINUUM SOURCES : Compact HII regions, ABG and PMS - stars

*

*

* A few of these are secondary calibrators for SCUBA, some also serve as spectral line standards

* Coordinates are either c - derived by coco (co-ordinate transformation) from 1950.0 FK4

* - this is usually the case for non-stellar sources, where

* submm & opt/NIR peaks may not coincide

* or s - as listed by Simbad (2000.0 FK5)

* - this is usually reserved for stellar sources

* Fluxes - 2001 Jul - changed to 0.85mm fluxes, based on last 18months data.

* data for HH1-2VLA, TWHya, M8E, ON-1, V645Cyg are the old 1.1mm values

* Sources for use in continuum mode originally intended only
 * for use in spectral-line 5-pointing mode. They have proven sufficiently
 * bright at 850um to qualify as 'continuum' sources.

| | | | | | | | | | |
|-------|-------------|--------------|------|----------|------|------------------|-----------|-----------|------------|
| WXPsc | 01 06 25.96 | + 12 35 53.5 | RJ + | 8.5 0.2 | 35.0 | LSR RADIO [c]2-1 | 41.0 J3-2 | 51.2 4-3 | 23.2 |
| oCeti | 02 19 20.80 | - 02 58 40.7 | RJ + | 46.5 0.5 | 28.0 | LSR RADIO [c]2-1 | 34.6 J3-2 | 48.2 4-3 | 46.2 J2005 |
| CIT6 | 10 16 02.27 | + 30 34 18.6 | RJ - | 1.9 0.7 | 45.0 | LSR RADIO [c]2-1 | 111.3 3-2 | 194.9 4-3 | 1 |

*
 * -----

* SPECTRAL LINE STANDARDS

* all 2000.0 FK5 coords derived by coco - see previous section
 * 2001 10 19 - offsets updated for crl618, omc1, oh231.8, w75n, ngc7027

PS offset is for CO and isotopes

| | | | | | | | | |
|------------|--------------|---------------|------|-----------|-------|---------------|---------------|----|
| W3(OH) | 02 27 04.1 | + 61 52 22. | RJ - | 45.0 35.0 | n/a | LSR RADIO [c] | PS -600,0 | RJ |
| L1551-IRS5 | 04 31 34.140 | + 18 08 05.13 | RJ + | 6.0 2.4 | n/a | LSR RADIO [l] | PS +1200,0 | RJ |
| CRL618 | 04 42 53.672 | + 36 06 53.17 | RJ - | 21.7 3.2 | 90.0 | LSR RADIO [l] | BMSW 180" | AZ |
| OMC1 | 05 35 14.373 | - 05 22 32.35 | RJ + | 10.0 72. | n/a | LSR RADIO [l] | PS 0, 2100 | RJ |
| N2071IR | 05 47 04.851 | + 00 21 47.10 | RJ + | 9.5 4.8 | n/a | LSR RADIO [l] | PS 2400,0 | RJ |
| OH231.8 | 07 42 16.83 | - 14 42 52.1 | RJ + | 30.0 1.3 | 140.0 | LSR RADIO [l] | BMSW 300" | AZ |
| IRC+10216 | 09 47 57.382 | + 13 16 43.66 | RJ - | 25.6 2.3 | 35.0 | LSR RADIO [l] | PS 300,0 | AZ |
| 16293-2422 | 16 32 22.909 | - 24 28 35.60 | RJ + | 4.0 8.3 | n/a | LSR RADIO [l] | PS -800,0 | RJ |
| NGC6334I | 17 20 53.445 | - 35 47 01.67 | RJ - | 6.9 30.0 | n/a | LSR RADIO [l] | PS 2400,0 | RJ |
| G34.3 | 18 53 18.569 | + 01 14 58.26 | RJ + | 58.1 31.2 | n/a | LSR RADIO [l] | PS -3120,1800 | RJ |
| W75N | 20 38 36.433 | + 42 37 34.49 | RJ + | 12.5 11.6 | n/a | LSR RADIO [l] | PS -1800,0 | RJ |
| CRL2688 | 21 02 18.75 | + 36 41 37.80 | RJ - | 35.4 2.7 | 80.0 | LSR RADIO [l] | BMSW 180" | AZ |
| NGC7027 | 21 07 01.598 | + 42 14 10.02 | RJ + | 26.0 3.7 | 50.0 | LSR RADIO [l] | BMSW 180" | AZ |
| N7538IRS1 | 23 13 45.346 | + 61 28 10.32 | RJ - | 58.0 9.9 | n/a | LSR RADIO [l] | PS 1200,0 | RJ |

*
 * -----

* SOURCELIST for SPECTRAL LINE FIVEPOINTS

* Positions taken from Loup et al. A&A Suppl. Ser 99, 291 (1993).
 * This section sub-divided according to positional accuracy flags by Loup et al.
 * except that
 * - 9 stars with HD numbers and flag=2 that differ by < approx 1"
 * from Hipparcos positions are in section 1.
 * - 6 weak or v.southern objects with Loup flags=1 appear in section 2,
 * since, in the cases where comparison with Hipparcos is possible -
 * the first two - differences of >1" are seen.
 * (R Hor, R Dor, V1362Aql, V1366Aql, GL2374, GL2885). (20020107)
 * VXSgr & RRAql added 20020107.

* Note CRL2688 is in section 2 (?!).
 * See also K. Young (1995, ApJ 445, 872).
 * Other (flux) data often courtesy H. Matthews and J. Greaves.
 * Positions for objects in common with spectral line standards (CRL618,
 * CRL2688, NGC7027, section above) are left unchanged, but these are not
 * inconsistent with Loup.
 * Note that we still have not gone through all the sources in the list.!!
 *
 * The catalogue gives T_A* (peak) for the 2-1 line. More informative, however, are the integrated line intensities
 * in the comment line (in K km/s), which largely determine how easy it is to detect a line. Note that JCMT 2-1
 * data followed by J are typically low by about a factor of 1.3 - 1.5 (telescope heavily deformed due to conebar
 * welding.

* 20070717 Notes reflect new positional accuracies : L1 L2 L3 original Loup qualities (<1", 1-5", >5");
 * : /H and /T reflect updates by Hipparcos & Tycho

| | RA & DEC | Eq | Vlsr | Tpeak | Vrange | JCMT | comments |
|--|----------------------------|----|------|-------|--------|-----------------------------|--------------------------|
| * Loup et al position quality flag = 1 (~1") | | | | | | | |
| TCas | 00 23 14.297 + 55 47 33.11 | RJ | - | 7.0 | 1.0 | 22.0 LSR RADIO [1] L1/H 3-2 | 12.8 4-3 int 5.5 |
| WXPsc | 01 06 25.98 + 12 35 53.0 | RJ | + | 8.5 | 1.4 | 35.0 LSR RADIO [1] L1 2-1 | 41.0 J 3-2 51.2 4-3 23.2 |
| RSc1 | 01 26 58.087 - 32 32 35.79 | RJ | - | 18.4 | 1.5 | 37.0 LSR RADIO [1] L1/H 2-1 | 42.3 J 3-2 48.2 |
| oCeti | 02 19 20.905 - 02 58 41.69 | RJ | + | 46.5 | 6.8 | 28.0 LSR RADIO [1] L1/H 2-1 | 34.6 J 3-2 48.2 4-3 46.2 |
| J2005 | | | | | | | |
| UCam | 03 41 48.173 + 62 38 54.33 | RJ | + | 7.1 | 0.55 | 64.0 LSR RADIO [1] L1/H 2-1 | 20.3 J |
| NMLTau | 03 53 28.84 + 11 24 22.6 | RJ | + | 35.1 | 1.6 | 43.0 LSR RADIO [1] L1 2-1 | 49.1 4-3 92 |
| CRL618 | 04 42 53.672 + 36 06 53.17 | RJ | - | 21.7 | 3.2 | 90.0 LSR RADIO [1] L1 2-1 | 118 3-2 95 |
| RLep | 04 59 36.354 - 14 48 22.54 | RJ | + | 16.0 | 0.6 | 38.0 LSR RADIO [1] L1/H 2-1 | 1 |
| NVAur | 05 11 19.43 + 52 52 33.7 | RJ | + | 3.0 | 0.57 | 36.0 LSR RADIO [1] L1 1-0 | OSO 19 |
| RAur | 05 17 17.694 + 53 35 09.89 | RJ | - | 3.0 | 1.2 | 20.0 LSR RADIO [1] L1/H 3-2 | CSO 16 4-3 11.4 |
| UUAur | 06 36 32.834 + 38 26 43.59 | RJ | + | 7.0 | 0.6 | 25.0 LSR RADIO [1] L1/H 2-1 | 10.5 1-0 IRAM 15.9 |
| VYCMa | 07 22 58.339 - 25 46 03.16 | RJ | + | 19.0 | 1.0 | 92.0 LSR RADIO [1] L1/H 2-1 | 50.1 |
| M1-16 | 07 37 18.955 - 09 38 49.67 | RJ | + | 49.0 | 0.85 | 50.0 LSR RADIO [1] L1+ 2-1 | 48.9 2-1 SEST 26.0 |
| M1-17 | 07 40 22.206 - 11 32 29.81 | RJ | + | 28.0 | 1.80 | 78.0 LSR RADIO [1] L1+ 2-1 | 31.7 2-1 IRAM 66.2 |
| OH231.8 | 07 42 16.83 - 14 42 52.1 | RJ | + | 30.0 | 1.3 | 160.0 LSR RADIO [1] L1+ 2-1 | 71.8 1-0 IRAM 92.5 |
| RLMi | 09 45 34.286 + 34 30 42.70 | RJ | + | 2.0 | 0.4 | 18.0 LSR RADIO [1] L1/H 2-1 | 5.8 2-1 IRAM 15.0 |
| RLeo | 09 47 33.490 + 11 25 43.22 | RJ | - | 0.4 | 1.0 | 22.0 LSR RADIO [1] L1/H 2-1 | 13.0 3-2 CSO 37 4-3 |
| IRC+10216 | 09 47 57.382 + 13 16 43.66 | RJ | - | 25.6 | 32. | 35.0 LSR RADIO [1] L1 2-1 | 427 3-2 687 4-3 720 |
| CIT6 | 10 16 02.27 + 30 34 18.6 | RJ | - | 1.9 | 8.5 | 45.0 LSR RADIO [1] L1 2-1 | 111.3 3-2 194.9 4-3 1 |
| RTVir | 13 02 38.007 + 05 11 08.20 | RJ | + | 18.0 | 0.7 | 18.0 LSR RADIO [1] L1/H 2-1 | 13.5 3-2 12.6 4-3 8.8 |
| WHya | 13 49 01.961 - 28 22 04.08 | RJ | + | 41.3 | 0.7 | 20.0 LSR RADIO [1] L1/H 2-1 | 10.9 3-2 29.0 4-3 21. |

| | | | | | | | | | | | | | | | | | | | | | | |
|----------|----|----|--------|---|----|----|-------|----|---|-------|------|------|-----|-------|-----|------|-----|------|------|-------|------|-----------|
| RXBoo | 14 | 24 | 11.643 | + | 25 | 42 | 12.90 | RJ | + | 1.1 | 1.4 | 22.0 | LSR | RADIO | [1] | L1/H | 2-1 | 19.3 | 3-2 | 32.3 | 4-3 | 14.9 |
| SCrB | 15 | 21 | 23.950 | + | 31 | 22 | 02.46 | RJ | + | 2.0 | 0.6 | 18.0 | LSR | RADIO | [1] | L1/H | 3-2 | 5.6 | | | | |
| NGC6302 | 17 | 13 | 44.211 | - | 37 | 06 | 15.94 | RJ | - | 40.0 | 2.6 | 52.0 | LSR | RADIO | [1] | L1+ | 2-1 | 73.0 | 2-1 | NRAO | 19.9 | |
| V814Her | 17 | 44 | 55.467 | + | 50 | 02 | 39.36 | RJ | - | 35.0 | 0.4 | 25.0 | LSR | RADIO | [1] | L1/H | 2-1 | 5.9 | 2-1 | IRAM | 36.1 | |
| VXSgr | 18 | 08 | 04.051 | - | 22 | 13 | 26.66 | RJ | + | 6.0 | 0.4 | 60.0 | LSR | RADIO | [1] | L1/H | | | | | | |
| NGC6563 | 18 | 12 | 02.753 | - | 33 | 52 | 07.14 | RJ | - | 31.0 | 0.4 | 60.0 | LSR | RADIO | [1] | L1 | | | | | | |
| OH17.7-2 | 18 | 30 | 30.64 | - | 14 | 28 | 57.0 | RJ | + | 62.0 | 0.3 | 25.0 | LSR | RADIO | [1] | L1 | 3-2 | 5.0 | 2-1 | IRAM | 19.4 | |
| V1111Oph | 18 | 37 | 19.31 | + | 10 | 25 | 42.4 | RJ | - | 30.0 | 0.8 | 40.0 | LSR | RADIO | [1] | L1 | 2-1 | 23.4 | 1-0 | OSO | 29.4 | |
| RAql | 19 | 06 | 22.256 | + | 08 | 13 | 47.34 | RJ | + | 46.0 | 1.1 | 20.0 | LSR | RADIO | [1] | L1/H | 2-1 | 15.5 | 3-2 | CSO | 45 | 4-3 36.9 |
| HD179821 | 19 | 13 | 58.610 | + | 00 | 07 | 31.89 | RJ | + | 100.0 | 1.1 | 76.0 | LSR | RADIO | [1] | L1/H | 3-2 | 57.5 | | | | |
| V1302Aql | 19 | 26 | 48.03 | + | 11 | 21 | 16.7 | RJ | + | 73.0 | 1.0 | 90.0 | LSR | RADIO | [1] | L1 | 2-1 | 57.0 | 3-2 | 114.7 | 4-3 | 101.5 |
| GYAql | 19 | 50 | 06.334 | - | 07 | 36 | 52.30 | RJ | + | 34.0 | 1.08 | 23.0 | LSR | RADIO | [1] | L1/H | 2-1 | NRAO | 24.4 | | | |
| KiCyg | 19 | 50 | 33.903 | + | 32 | 54 | 50.23 | RJ | + | 10.0 | 3.5 | 21.0 | LSR | RADIO | [1] | L1/H | 3-2 | 58.9 | 4-3 | 70.2 | | |
| RRAql | 19 | 57 | 36.044 | - | 01 | 53 | 11.81 | RJ | + | 28.0 | 0.5 | 15.0 | LSR | RADIO | [1] | L1/H | | | | | | |
| VCyg | 20 | 41 | 18.264 | + | 48 | 08 | 28.71 | RJ | + | 14.0 | 2.7 | 24.0 | LSR | RADIO | [1] | L1/H | 2-1 | 47.9 | | | | |
| NMLCyg | 20 | 46 | 25.46 | + | 40 | 06 | 59.6 | RJ | + | 1.0 | 2.0 | 65.0 | LSR | RADIO | [1] | L1 | 3-2 | 85.9 | 4-3 | 96.5 | | |
| NGC7027 | 21 | 07 | 01.598 | + | 42 | 14 | 10.02 | RJ | + | 26.0 | 8.5 | 50.0 | LSR | RADIO | [1] | L1 | 2-1 | 193 | J | 3-2 | 280 | 4-3 238.0 |
| SCep | 21 | 35 | 12.863 | + | 78 | 37 | 28.20 | RJ | - | 16.0 | 1.6 | 63.0 | LSR | RADIO | [1] | L1/H | 2-1 | 40.9 | 3-2 | 50.4 | | |
| RCas | 23 | 58 | 24.963 | + | 51 | 23 | 19.88 | RJ | + | 25.0 | 1.6 | 31.0 | LSR | RADIO | [1] | L1/H | 2-1 | 29.0 | J | 3-2 | 73.5 | 4-3 47.6 |

*

* Loup et al position quality flag = 2 (~1"-5")

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| | | | | | | | | | | | | | | | | | | | | | | |
|-----------|----|----|--------|---|----|----|-------|----|---|------|------|------|-----|-------|-----|------|-----|------|------|------|------|--|
| RAnd | 00 | 24 | 01.933 | + | 38 | 34 | 36.98 | RJ | - | 16.0 | 1.1 | 22.0 | LSR | RADIO | [1] | L2/H | 2-1 | 14.5 | J | | | |
| GL67 | 00 | 27 | 41.15 | + | 69 | 38 | 51.7 | RJ | - | 28.6 | 1.5 | 43.0 | LSR | RADIO | [1] | L2 | 2-1 | 32.7 | | | | |
| IRC+60041 | 01 | 13 | 44.31 | + | 62 | 57 | 36.0 | RJ | - | 25.0 | 0.1 | 47.0 | LSR | RADIO | [1] | L2 | | | | | | |
| RHor | 02 | 53 | 52.909 | - | 49 | 53 | 22.37 | RJ | + | 38.0 | 0.8 | 13.0 | LSR | RADIO | [1] | L2/H | | | | | | |
| V384Per | 03 | 26 | 29.53 | + | 47 | 31 | 50.2 | RJ | - | 16.3 | 1.3 | 33.0 | LSR | RADIO | [1] | L2 | 2-1 | 28.1 | 1-0 | OSO | 25.0 | |
| IRC+60144 | 04 | 35 | 17.45 | + | 62 | 16 | 23.3 | RJ | - | 45.0 | 0.8 | 30.0 | LSR | RADIO | [1] | L2 | 1-0 | OSO | 18.7 | | | |
| RDor | 04 | 36 | 45.495 | - | 62 | 04 | 38.47 | RJ | + | 7.0 | 2.5 | 13.0 | LSR | RADIO | [1] | L2/H | | | | | | |
| V370Aur | 05 | 43 | 49.78 | + | 32 | 42 | 06.8 | RJ | - | 31.0 | 0.65 | 52.0 | LSR | RADIO | [1] | L2 | | | | | | |
| GL865 | 06 | 03 | 59.84 | + | 07 | 25 | 54.4 | RJ | + | 42.5 | 1.8 | 33.0 | LSR | RADIO | [1] | L2 | 2-1 | 36.0 | 1-0 | OSO | 17.0 | |
| V636Mon | 06 | 25 | 01.37 | - | 09 | 07 | 16.0 | RJ | + | 13.0 | 0.39 | 50.0 | LSR | RADIO | [1] | L2 | 2-1 | 21.5 | | | | |
| APLyn | 06 | 34 | 33.92 | + | 60 | 56 | 26.2 | RJ | - | 23.0 | 0.49 | 35.0 | LSR | RADIO | [1] | L2 | 1-0 | OSO | 13.0 | | | |
| M1-7 | 06 | 37 | 20.955 | + | 24 | 00 | 35.38 | RJ | - | 11.0 | 0.46 | 50.0 | LSR | RADIO | [1] | L2+ | 2-1 | 44.1 | | | | |
| GMCMa | 06 | 41 | 15.09 | - | 22 | 16 | 43.8 | RJ | + | 48.0 | 0.5 | 40.0 | LSR | RADIO | [1] | L2 | 2-1 | 11.0 | | | | |
| GXMon | 06 | 52 | 46.91 | + | 08 | 25 | 19.0 | RJ | - | 7.0 | 1.7 | 40.0 | LSR | RADIO | [1] | L2+ | 2-1 | 48.0 | 1-0 | OSO | 30.5 | |
| HD56126 | 07 | 16 | 10.257 | + | 09 | 59 | 48.03 | RJ | + | 73.0 | 2.0 | 24.0 | LSR | RADIO | [1] | L2/T | 2-1 | 23.1 | 3-2 | 22.4 | | |
| GL5254 | 09 | 13 | 54.09 | - | 24 | 51 | 21.1 | RJ | + | 0.1 | 3.5 | 32.0 | LSR | RADIO | [1] | L2 | 2-1 | 55.3 | 3-2 | 49.6 | | |
| VHya | 10 | 51 | 37.245 | - | 21 | 15 | 00.29 | RJ | - | 15.6 | 5.0 | 52.0 | LSR | RADIO | [1] | L2/H | 2-1 | 73.7 | 3-2 | 97.8 | | |
| XHer | 16 | 02 | 39.108 | + | 47 | 14 | 25.92 | RJ | - | 73.0 | 1.3 | 23.0 | LSR | RADIO | [1] | L2/H | 2-1 | 12.0 | | | | |
| NGC6072 | 16 | 12 | 58.079 | - | 36 | 13 | 46.06 | RJ | + | 7.0 | 1.8 | 24.0 | LSR | RADIO | [1] | L2 | 2-1 | 28.9 | | | | |
| GL1922 | 17 | 07 | 58.24 | - | 24 | 44 | 31.1 | RJ | - | 3.0 | 1.73 | 40.0 | LSR | RADIO | [1] | L2 | 2-1 | 45.0 | 3-2 | 56.3 | | |
| GL2135 | 18 | 22 | 34.50 | - | 27 | 06 | 30.2 | RJ | + | 48.0 | 1.31 | 45.0 | LSR | RADIO | [1] | L2 | 2-1 | 45.8 | 3-2 | 59.7 | | |

| | | | | | | | | | | | | | | | | | | | |
|---|----|----|--------|---|----|----|-------|----|---|-------|------|------|-----|-------|-----|------|-----|--------|-------------------|
| GL2143 | 18 | 24 | 31.84 | - | 16 | 16 | 04.2 | RJ | - | 27.0 | 0.9 | 34.0 | LSR | RADIO | [1] | L2 | 2-1 | IRAM | 19.4 |
| GL2199 | 18 | 35 | 46.48 | + | 05 | 35 | 46.5 | RJ | + | 30.0 | 0.67 | 40.0 | LSR | RADIO | [1] | L2 | 1-0 | OSO | 16.7 |
| V821Her | 18 | 41 | 54.39 | + | 17 | 41 | 08.5 | RJ | + | 0.0 | 2.0 | 31.0 | LSR | RADIO | [1] | L2 | 2-1 | 39.6 | 3-2 54.5 |
| IRC+00365 | 18 | 42 | 24.68 | - | 02 | 17 | 25.2 | RJ | + | 3.0 | 0.7 | 73.0 | LSR | RADIO | [1] | L2 | 2-1 | 35.3 | 3-2 57.7 |
| RSct | 18 | 47 | 28.921 | - | 05 | 42 | 18.84 | RJ | + | 56.0 | 0.8 | 10.0 | LSR | RADIO | [1] | L2/H | 2-1 | 4.2 | |
| V1362Aql | 18 | 48 | 41.91 | - | 02 | 50 | 28.3 | RJ | + | 101.0 | 1.1 | 35.0 | LSR | RADIO | [1] | L2 | | | |
| V1366Aql | 18 | 58 | 30.02 | + | 06 | 42 | 57.7 | RJ | + | 21.0 | 0.6 | 31.0 | LSR | RADIO | [1] | L2 | | | |
| IRC+10401 | 19 | 03 | 18.28 | + | 07 | 30 | 47.2 | RL | + | 7.0 | 0.3 | 17.0 | LSR | RADIO | [1] | L2 | | | |
| GL2316 | 19 | 05 | 22.69 | + | 08 | 13 | 05.0 | RJ | + | 2.0 | 1.0 | 34.0 | LSR | RADIO | [1] | L2 | 2-1 | IRAM | 23.3 |
| WAql | 19 | 15 | 23.442 | - | 07 | 02 | 49.84 | RJ | - | 25.0 | 0.8 | 42.0 | LSR | RADIO | [1] | L2 | 2-1 | CSO | 22 |
| IRC-10502 | 19 | 20 | 17.96 | - | 08 | 02 | 10.6 | RJ | + | 21.0 | 0.67 | 57.0 | LSR | RADIO | [1] | L2 | 2-1 | 27.9 | 3-2 40.0 |
| OH44.8 | 19 | 21 | 36.52 | + | 09 | 27 | 56.5 | RJ | - | 72.0 | 0.5 | 30.0 | LSR | RADIO | [1] | L2 | | | |
| V1965Cyg | 19 | 34 | 09.87 | + | 28 | 04 | 06.3 | RJ | - | 12.0 | 0.77 | 54.0 | LSR | RADIO | [1] | L2 | 3-2 | 44.8 | |
| HD187885 | 19 | 52 | 52.697 | - | 17 | 01 | 50.33 | RJ | + | 24.0 | 0.7 | 75.0 | LSR | RADIO | [1] | L2/T | 2-1 | 12.6 | 3-2 25.8 |
| CRL2688 | 21 | 02 | 18.75 | + | 36 | 41 | 37.80 | RJ | - | 35.4 | 5.0 | 80.0 | LSR | RADIO | [1] | L2 | 2-1 | 120 J | 3-2 197 |
| OH104.9 | 22 | 19 | 27.40 | + | 59 | 51 | 22.7 | RJ | - | 27.0 | 0.5 | 34.0 | LSR | RADIO | [1] | L2 | | | |
| PilGru | 22 | 22 | 44.232 | - | 45 | 56 | 52.71 | RJ | - | 12.0 | 2.1 | 40.0 | LSR | RADIO | [1] | L2/H | 3-2 | 74.3 | 4-3 38.8 |
| HD235858 | 22 | 29 | 10.375 | + | 54 | 51 | 06.33 | RJ | - | 28.0 | 2.1 | 22.0 | LSR | RADIO | [1] | L2/T | 3-2 | 34.5 | |
| LPAnd | 23 | 34 | 27.66 | + | 43 | 33 | 02.4 | RJ | - | 17.0 | 2.7 | 29.0 | LSR | RADIO | [1] | L2 | 2-1 | 52.8 J | 3-2 70.0 4-3 3 |
| * | | | | | | | | | | | | | | | | | | | |
| * Loup et al position quality flag = 3 (?>5") | | | | | | | | | | | | | | | | | | | |
| * | | | | | | | | | | | | | | | | | | | |
| 01142+6306 | 01 | 17 | 33.31 | + | 63 | 22 | 05.8 | RJ | - | 20.0 | 0.7 | 38.0 | LSR | RADIO | [1] | L3 | 2-1 | 28.3 | |
| GL190 | 01 | 17 | 51.62 | + | 67 | 13 | 55.4 | RJ | - | 39.0 | 3.1 | 37.0 | LSR | RADIO | [1] | L3 | | | |
| GL482 | 03 | 23 | 36.57 | + | 70 | 27 | 07.5 | RJ | - | 16.4 | 0.9 | 20.0 | LSR | RADIO | [1] | L3 | 2-1 | 11.3 J | 1-0 OSO 9.0 |
| 03313+6058 | 03 | 35 | 30.69 | + | 61 | 08 | 47.2 | RJ | - | 39.0 | 0.6 | 30.0 | LSR | RADIO | [1] | L3 | 2-1 | IRAM | 13.2 |
| GL5102 | 03 | 48 | 18.01 | + | 44 | 42 | 02.1 | RJ | - | 25.0 | 0.4 | 32.0 | LSR | RADIO | [1] | L3 | 1-0 | OSO | 11 |
| TXCam | 05 | 00 | 50.39 | + | 56 | 10 | 52.6 | RJ | + | 9.2 | 2.9 | 50.0 | LSR | RADIO | [1] | L3 | 2-1 | 75.8 | |
| BXCam | 05 | 46 | 44.10 | + | 69 | 58 | 25.2 | RJ | + | 0.0 | 0.54 | 45.0 | LSR | RADIO | [1] | L3 | 1-0 | OSO | 15.4 |
| GL1235 | 08 | 10 | 48.40 | - | 32 | 52 | 03.9 | RJ | - | 20.3 | 0.9 | 42.0 | LSR | RADIO | [1] | L3+ | 2-1 | 29.0 | 3-2 37.5 |
| CRL4211 | 15 | 11 | 41.89 | - | 48 | 20 | 01.3 | RJ | - | 3.7 | 2.5 | 42.0 | LSR | RADIO | [1] | L3 | 2-1 | 72.6 | |
| IILup | 15 | 23 | 04.91 | - | 51 | 25 | 59.0 | RJ | - | 15.0 | 1.9 | 23.0 | LSR | RADIO | [1] | L3 | 2-1 | 58.5 | |
| IRC+20326 | 17 | 31 | 54.98 | + | 17 | 45 | 19.7 | RJ | - | 4.0 | 1.5 | 34.0 | LSR | RADIO | [1] | L3 | 2-1 | 31.3 | 1-0 OSO 20 |
| GL2155 | 18 | 26 | 05.84 | + | 23 | 28 | 46.7 | RJ | + | 60.0 | 1.12 | 34.0 | LSR | RADIO | [1] | L3+ | 1-0 | OSO | 23.2 |
| 19454+2920 | 19 | 47 | 24.25 | + | 29 | 28 | 11.8 | RJ | + | 21.0 | 0.73 | 29.0 | LSR | RADIO | [1] | L3 | 2-1 | IRAM | 14.3 |
| GL2477 | 19 | 56 | 48.45 | + | 30 | 44 | 02.6 | RJ | + | 5.0 | 1.7 | 50.0 | LSR | RADIO | [1] | L3+ | 3-2 | 26.6 | |
| GL2494 | 20 | 01 | 08.51 | + | 40 | 55 | 40.2 | RJ | + | 30.0 | 1.3 | 48.0 | LSR | RADIO | [1] | L3 | 2-1 | 38.2 | 3-2 53.5 4-3 49 |
| V1300Aql | 20 | 10 | 27.41 | - | 06 | 16 | 15.7 | RJ | - | 18.0 | 1.2 | 34.0 | LSR | RADIO | [1] | L3 | 2-1 | 37.0 | 3-2 40.4 4-3 33.7 |
| OH63.3-10.2 | 20 | 28 | 57.10 | + | 21 | 15 | 37.0 | RJ | - | 72.0 | 0.76 | 37.0 | LSR | RADIO | [1] | L3+ | 2-1 | IRAM | 1 |
| GL2686 | 20 | 59 | 08.88 | + | 27 | 26 | 41.7 | RJ | + | 1.0 | 0.32 | 48.0 | LSR | RADIO | [1] | L3 | 2-1 | 28.7 | |
| 21282+5050 | 21 | 29 | 58.42 | + | 51 | 03 | 59.8 | RJ | + | 18.0 | 4.2 | 37.0 | LSR | RADIO | [1] | L3 | 3-2 | 74 | 2-1 IRAM 279 |
| 21318+5631 | 21 | 33 | 22.98 | + | 56 | 44 | 35.0 | RJ | + | 0.0 | 0.95 | 37.0 | LSR | RADIO | [1] | L3 | 3-2 | 19.7 | |
| 21554+6204 | 21 | 56 | 58.18 | + | 62 | 18 | 43.6 | RJ | - | 17.0 | 0.75 | 37.0 | LSR | RADIO | [1] | L3 | 2-1 | 10.9 | |

| | | | | | | | | | | |
|------------|-------------|--------------|------|------|------|------|-----|-----------|----|-----------------------|
| V384Cep | 22 25 54.81 | + 60 20 42.4 | RJ - | 6.0 | 0.2 | 34.0 | LSR | RADIO [1] | L3 | |
| GL3068 | 23 19 12.39 | + 17 11 35.4 | RJ - | 31.0 | 6.1 | 31.0 | LSR | RADIO [1] | L3 | 3-2 49.6 4-3 37.4 |
| 23304+6147 | 23 32 44.94 | + 62 03 49.6 | RJ - | 17.0 | 0.4 | 31.0 | LSR | RADIO [1] | L3 | 3-2 6.7 2-1 IRAM 25.0 |
| 23321+6545 | 23 34 22.63 | + 66 01 50.4 | RJ - | 56.0 | 0.24 | 40.0 | LSR | RADIO [1] | L3 | 3-2 6.2 2-1 IRAM 28 |

*

*

* Further sources useful for spectral-line fivepointing

* at CO:2-1 (and at CO:3-2 where noted).

* Sources identified by Thomas Lowe (2003).

* STCam thru WCMa added 29 Mar 2004

*

| | | | | | | | | | | |
|-------|--------------|---------------|------|-------|-----|------|-----|-----------|---------|------|
| RFor | 02 29 15.315 | - 26 05 55.74 | RJ - | 2.0 | 0.5 | 35.0 | LSR | RADIO [1] | Hip 2-1 | 14.2 |
| STCam | 04 51 13.339 | + 68 10 07.57 | RJ - | 10.9 | 0.4 | 25.0 | LSR | RADIO [1] | Hip 2-1 | 4.1 |
| WOri | 05 05 23.720 | + 01 10 39.42 | RJ + | 7.5 | 0.5 | 25.0 | LSR | RADIO [1] | Hip 2-1 | 6.7 |
| YTau | 05 45 39.409 | + 20 41 42.07 | RJ + | 15.0 | 0.5 | 30.0 | LSR | RADIO [1] | Hip 2-1 | 7.6 |
| RYMon | 07 06 56.477 | - 07 33 26.58 | RJ - | 8.8 | 0.3 | 30.0 | LSR | RADIO [1] | Hip 2-1 | 3.8 |
| WCMa | 07 08 03.432 | - 11 55 23.77 | RJ + | 0.0 | 0.5 | 25.0 | LSR | RADIO [1] | Hip 2-1 | 5.1 |
| XCnc | 08 55 22.879 | + 17 13 52.65 | RJ - | 13.0 | 0.4 | 17.0 | LSR | RADIO [1] | Hip 2-1 | 4.2 |
| YHya | 09 51 03.723 | - 23 01 02.39 | RJ - | 7.0 | 0.4 | 20.0 | LSR | RADIO [1] | Hip 2-1 | 5.4 |
| UHya | 10 37 33.302 | - 13 23 04.73 | RJ - | 31.0 | 1.3 | 16.0 | LSR | RADIO [1] | Hip 2-1 | 14.6 |
| YCVn | 12 45 07.827 | + 45 26 24.92 | RJ + | 21.0 | 0.9 | 17.0 | LSR | RADIO [1] | Hip 2-1 | 10.7 |
| RYDra | 12 56 25.931 | + 65 59 39.71 | RJ - | 5.0 | 0.5 | 20.0 | LSR | RADIO [1] | Hip 2-1 | 7.1 |
| VCrB | 15 49 31.317 | + 39 34 17.74 | RJ - | 100.0 | 0.5 | 19.0 | LSR | RADIO [1] | Hip 2-1 | 5.4 |
| TDra | 17 56 23.289 | + 58 13 05.61 | RJ - | 14.0 | 0.8 | 28.0 | LSR | RADIO [1] | Hip 2-1 | 16.6 |
| UCyg | 20 19 36.595 | + 47 53 39.09 | RJ + | 25.0 | 0.3 | 26.0 | LSR | RADIO [1] | Hip 2-1 | 7.2 |
| RVCyg | 21 43 16.328 | + 38 01 02.88 | RJ + | 15.0 | 0.5 | 30.0 | LSR | RADIO [1] | Hip 2-1 | 10.1 |
| TXPsc | 23 46 23.494 | + 03 29 12.27 | RJ + | 13.0 | 0.7 | 20.0 | LSR | RADIO [1] | Hip 2-1 | 6.2 |

*

* and 3 candidates observed at CO:3-2 by S.Ramstedt (m07ai05)

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| | | | | | | | | | | |
|-------|--------------|---------------|------|------|-----|------|-----|-----------|-----|------|
| RCyg | 19 36 49.381 | + 50 11 59.46 | RJ - | 17.0 | 1.0 | 30.0 | LSR | RADIO [1] | 3-2 | 15.0 |
| SLyr | 19 13 11.79 | + 26 00 28.3 | RJ + | 51.0 | 0.3 | 40.0 | LSR | RADIO [1] | 3-2 | 6.0 |
| WYCas | 23 58 01.30 | + 56 29 13.5 | RJ + | 8.0 | 0.4 | 40.0 | LSR | RADIO [1] | 3-2 | 8.0 |

*

* MISCELLANEOUS SOURCES

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| | | | | | | | | | | |
|------|------------|---------------|----|-----|-----|-----|-----|-----------|-------------------------|--|
| HOLO | 92 54 40.0 | + 08 35 07.00 | AZ | n/a | n/a | n/a | LSR | RADIO [c] | Position for holography | |
|------|------------|---------------|----|-----|-----|-----|-----|-----------|-------------------------|--|

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Annex 2: Adraou et al. Southern Hemisphere Pointing Catalogue

| No. | _RAJ2000 | _DEJ2000 | Name | RAB1950 | DEB1950 | Type | Sc | Smin | Smax |
|-----|-------------|-------------|-----------|-------------|-------------|------|------|------|------|
| | "h:m:s" | "d:m:s" | | "h:m:s" | "d:m:s" | | mJy | mJy | mJy |
| 1 | 00 06 13.89 | -06 23 35.3 | B0003-066 | 00 03 40.29 | -06 40 17.4 | BL | 890 | 650 | 1131 |
| 2 | 00 50 41.32 | -09 29 05.2 | B0048-097 | 00 48 09.98 | -09 45 24.3 | BL | 890 | 250 | 1530 |
| 3 | 00 51 09.49 | -42 26 33.3 | B0048-427 | 00 48 49.02 | -42 42 52.1 | Q | 854 | 567 | 1140 |
| 4 | 00 58 46.58 | -56 59 11.4 | B0056-572 | 00 56 38.58 | -57 15 22.4 | Q | 505 | 475 | 536 |
| 5 | 01 06 45.11 | -40 34 20.0 | B0104-408 | 01 04 27.58 | -40 50 21.7 | Q | 737 | | |
| 6 | 01 08 38.75 | +01 34 58.9 | B0106+013 | 01 06 04.50 | +01 18 59.6 | Q | 1172 | 800 | 1544 |
| 7 | 01 15 17.10 | -01 27 04.6 | B0112-017 | 01 12 43.93 | -01 42 55.1 | Q | 389 | 171 | 608 |
| 8 | 01 16 12.52 | -11 36 15.5 | B0113-118 | 01 13 43.22 | -11 52 04.7 | Q | 433 | 297 | 569 |
| 9 | 01 20 31.67 | -27 01 24.6 | B0118-272 | 01 18 09.54 | -27 17 07.6 | BL | 380 | 160 | 600 |
| 10 | 01 32 43.48 | -16 54 48.5 | B0130-171 | 01 30 17.69 | -17 10 12.0 | Q | 969 | | |
| 11 | 01 37 38.35 | -24 30 53.9 | B0135-247 | 01 35 17.12 | -24 46 08.8 | Q | 708 | 346 | 1070 |
| 12 | 01 41 25.83 | -09 28 43.7 | B0138-097 | 01 38 56.86 | -09 43 51.8 | BL | 420 | 210 | 630 |
| 13 | 02 04 50.41 | +15 14 11.0 | B0202+149 | 02 02 07.40 | +14 59 50.8 | Q | 1286 | 971 | 1601 |
| 14 | 02 10 46.20 | -51 01 01.9 | B0208-512 | 02 08 56.96 | -51 15 07.8 | Q | 2619 | 1000 | 4238 |
| 15 | 02 17 48.96 | +01 44 49.6 | B0215+015 | 02 15 14.14 | +01 31 00.0 | BL | 707 | 310 | 1105 |
| 16 | 02 24 28.42 | +06 59 23.4 | B0221+067 | 02 21 49.96 | +06 45 50.4 | Q | 1165 | 930 | 1400 |
| 17 | 02 38 38.93 | +16 36 59.3 | B0235+164 | 02 35 52.63 | +16 24 03.9 | BL | 2377 | 694 | 4060 |
| 18 | 02 42 29.17 | +11 01 00.7 | B0239+108 | 02 39 47.09 | +10 48 16.2 | Q | 670 | | |
| 19 | 02 53 29.18 | -54 41 51.5 | B0252-549 | 02 52 00.26 | -54 54 02.5 | Q | 536 | 495 | 578 |
| 20 | 03 03 50.63 | -62 11 25.6 | B0302-623 | 03 02 48.14 | -62 23 04.2 | Q | 526 | 340 | 713 |
| 21 | 03 34 13.65 | -40 08 25.1 | B0332-403 | 03 32 25.24 | -40 18 23.8 | Q | 844 | 388 | 1300 |
| 22 | 03 39 30.94 | -01 46 35.8 | B0336-019 | 03 36 58.96 | -01 56 17.0 | Q | 1500 | 610 | 2391 |
| 23 | 03 40 35.61 | -21 19 31.2 | B0338-214 | 03 38 23.29 | -21 29 08.0 | BL | 383 | 270 | 497 |
| 24 | 04 03 53.77 | -36 05 01.5 | B0402-362 | 04 02 02.62 | -36 13 11.5 | Q | 1720 | 940 | 2500 |
| 25 | 04 05 34.01 | -13 08 13.7 | B0403-132 | 04 03 13.99 | -13 16 18.2 | Q | 459 | 443 | 475 |
| 26 | 04 23 15.81 | -01 20 33.1 | B0420-014 | 04 20 43.55 | -01 27 28.8 | Q | 2560 | 1050 | 4070 |
| 27 | 04 24 42.36 | -37 56 21.4 | B0422-380 | 04 22 56.29 | -38 03 09.9 | Q | 569 | 530 | 608 |
| 28 | 04 28 40.38 | -37 56 19.7 | B0426-380 | 04 26 54.67 | -38 02 52.3 | BL | 570 | 540 | 600 |
| 29 | 04 33 11.09 | +05 21 15.6 | B0430+052 | 04 30 31.60 | +05 14 59.6 | Q | 790 | 700 | 880 |
| 30 | 04 40 17.18 | -43 33 08.6 | B0438-436 | 04 38 43.19 | -43 38 53.6 | Q | 415 | 280 | 550 |
| 31 | 04 53 14.65 | -28 07 37.3 | B0451-282 | 04 51 15.14 | -28 12 29.4 | Q | 490 | | |
| 32 | 04 50 05.47 | -81 01 02.2 | B0454-810 | 04 54 18.05 | -81 05 54.6 | Q | 515 | 500 | 530 |
| 33 | 04 55 50.77 | -46 15 58.7 | B0454-463 | 04 54 24.19 | -46 20 38.8 | Q | 3644 | 3565 | 3723 |
| 34 | 04 57 03.18 | -23 24 52.1 | B0454-234 | 04 54 57.31 | -23 29 28.4 | Q | 674 | 640 | 708 |
| 35 | 05 01 12.81 | -01 59 14.3 | B0458-020 | 04 58 41.35 | -02 03 33.9 | Q | 740 | 295 | 1186 |
| 36 | 05 06 44.00 | -61 09 41.0 | B0506-612 | 05 06 08.49 | -61 13 33.3 | BL | 2360 | 1480 | 3240 |
| 37 | 05 22 57.98 | -36 27 30.9 | B0521-365 | 05 21 12.98 | -36 30 16.0 | Q | 2491 | 707 | 4275 |
| 38 | 05 30 56.41 | +13 31 55.2 | B0528+134 | 05 28 06.76 | +13 29 42.3 | Q | 1198 | 1093 | 1303 |
| 39 | 05 32 39.00 | +07 32 43.3 | B0529+075 | 05 29 56.50 | +07 30 38.1 | Q | 944 | 944 | 945 |
| 40 | 05 38 50.37 | -44 05 09.0 | B0537-441 | 05 37 21.09 | -44 06 44.7 | Q | 2018 | 1300 | 2737 |
| 41 | 06 04 25.17 | -42 25 30.0 | B0602-424 | 06 02 52.49 | -42 25 14.1 | Q | 2175 | | |
| 42 | 06 07 59.69 | -08 34 50.0 | B0605-085 | 06 05 36.03 | -08 34 20.3 | Q | 1436 | 642 | 2230 |
| 43 | 06 09 40.95 | -15 42 40.7 | B0607-157 | 06 07 25.99 | -15 42 03.3 | Q | 2672 | 880 | 4465 |
| 44 | 06 35 46.55 | -75 16 16.8 | B0637-752 | 06 37 23.43 | -75 13 37.5 | Q | 1679 | 658 | 2700 |
| 45 | 06 48 14.11 | -30 44 19.6 | B0646-306 | 06 46 19.22 | -30 40 54.3 | Q | 379 | 296 | 463 |
| 46 | 07 30 19.11 | -11 41 12.7 | B0727-115 | 07 27 58.10 | -11 34 52.6 | Q | 1485 | 540 | 2430 |
| 47 | 07 38 07.39 | +17 42 19.0 | B0735+178 | 07 35 14.13 | +17 49 09.3 | BL | 1605 | 690 | 2520 |
| 48 | 07 39 18.04 | +01 37 04.6 | B0736+017 | 07 36 42.52 | +01 44 00.2 | Q | 2051 | 517 | 3585 |
| 49 | 07 57 06.64 | +09 56 34.8 | B0754+100 | 07 54 22.58 | +10 04 39.7 | BL | 792 | 570 | 1015 |
| 50 | 08 08 15.54 | -07 51 09.8 | B0805-077 | 08 05 49.56 | -07 42 22.3 | Q | 477 | 254 | 700 |

| No. | _RAJ2000 | _DEJ2000 | Name | RAB1950 | DEB1950 | Type | Sc | Smin | Smax |
|-----|-------------|-------------|-----------|-------------|-------------|------|-------|------|-------|
| | "h:m:s" | "d:m:s" | | "h:m:s" | "d:m:s" | | mJy | mJy | mJy |
| | | | | | | | | | |
| 51 | 08 25 50.33 | +03 09 24.5 | B0823+033 | 08 23 13.54 | +03 19 15.5 | BL | 1203 | 700 | 1706 |
| 52 | 08 36 39.25 | -20 16 58.8 | B0834-201 | 08 34 24.64 | -20 06 29.6 | Q | 813 | 470 | 1156 |
| 53 | 08 54 48.87 | +20 06 30.6 | B0851+202 | 08 51 57.25 | +20 17 58.5 | BL | 3345 | 1100 | 5590 |
| 54 | 09 09 10.09 | +01 21 35.6 | B0906+015 | 09 06 35.19 | +01 33 48.2 | Q | 2347 | 1981 | 2713 |
| 55 | 09 22 46.42 | -39 59 35.1 | B0920-397 | 09 20 48.24 | -39 46 42.2 | Q | 467 | 356 | 578 |
| 56 | 10 35 02.16 | -20 11 34.3 | B1032-199 | 10 32 37.37 | -19 56 02.0 | Q | 374 | 259 | 490 |
| 57 | 10 37 16.08 | -29 34 02.9 | B1034-293 | 10 34 55.83 | -29 18 26.9 | Q | 1703 | 390 | 3016 |
| 58 | 10 48 06.62 | -19 09 35.8 | B1045-188 | 10 45 40.10 | -18 53 44.0 | Q | 717 | 470 | 964 |
| 59 | 10 58 29.61 | +01 33 58.9 | B1055+018 | 10 55 55.32 | +01 50 03.7 | Q | 1901 | 1030 | 2772 |
| 60 | 10 58 43.31 | -80 03 54.1 | B1057-797 | 10 57 49.73 | -79 47 47.7 | Q | 915 | 680 | 1150 |
| 61 | 11 03 52.22 | -53 57 00.7 | B1101-536 | 11 01 41.05 | -53 40 49.3 | Q | 863 | 814 | 913 |
| 62 | 11 07 08.70 | -44 49 07.7 | B1104-445 | 11 04 50.38 | -44 32 52.9 | Q | 751 | 502 | 1000 |
| 63 | 11 18 57.30 | +12 34 41.7 | B1116+128 | 11 16 20.78 | +12 51 06.8 | Q | 3237 | 254 | 6220 |
| 64 | 11 27 04.39 | -18 57 17.4 | B1124-186 | 11 24 34.02 | -18 40 46.2 | Q | 464 | 291 | 638 |
| 65 | 11 30 07.05 | -14 49 27.4 | B1127-145 | 11 27 35.67 | -14 32 54.3 | Q | 910 | 601 | 1220 |
| 66 | 11 47 01.34 | -38 12 11.5 | B1144-379 | 11 44 30.83 | -37 55 31.0 | BL | 1133 | 1067 | 1200 |
| 67 | 11 47 33.63 | -67 53 41.8 | B1145-676 | 11 45 09.60 | -67 37 01.0 | Q | 740 | 281 | 1200 |
| 68 | 11 52 17.19 | -08 41 04.0 | B1149-084 | 11 49 43.83 | -08 24 22.5 | Q | 1205 | 42 | 2368 |
| 69 | 12 29 06.41 | +02 03 05.2 | B1226+023 | 12 26 32.96 | +02 19 40.0 | Q | 14703 | 1169 | 28237 |
| 70 | 12 46 04.23 | -07 30 46.6 | B1243-072 | 12 43 28.79 | -07 14 23.4 | Q | 270 | 90 | 450 |
| 71 | 12 46 46.80 | -25 47 49.3 | B1244-255 | 12 44 06.72 | -25 31 26.6 | Q | 1297 | 590 | 2005 |
| 72 | 12 56 11.17 | -05 47 21.6 | B1253-055 | 12 53 35.84 | -05 31 07.9 | Q | 13200 | 3970 | 22430 |
| 73 | 13 05 33.01 | -10 33 19.5 | B1302-102 | 13 02 55.85 | -10 17 16.3 | Q | 381 | 293 | 470 |
| 74 | 13 16 07.99 | -33 38 59.2 | B1313-333 | 13 13 20.05 | -33 23 09.6 | Q | 2101 | 523 | 3680 |
| 75 | 13 25 27.61 | -43 01 08.8 | B1322-428 | 13 22 31.60 | -42 45 32.9 | Q | 9205 | 8200 | 10210 |
| 76 | 13 37 39.78 | -12 57 24.7 | B1334-127 | 13 34 59.81 | -12 42 09.6 | Q | 4064 | 2198 | 5930 |
| 77 | 13 54 46.51 | -10 41 02.7 | B1352-104 | 13 52 06.83 | -10 26 20.7 | Q | 490 | 430 | 551 |
| 78 | 13 57 04.43 | +19 19 07.4 | B1354+195 | 13 54 42.09 | +19 33 44.1 | Q | 826 | 275 | 1378 |
| 79 | 14 15 58.82 | +13 20 23.7 | B1413+135 | 14 13 33.92 | +13 34 17.5 | BL | 1331 | 407 | 2255 |
| 80 | 14 24 55.61 | -68 07 59.1 | B1420-679 | 14 20 45.20 | -67 54 25.0 | Q | 373 | 323 | 423 |
| 81 | 14 27 56.35 | -42 06 19.4 | B1424-418 | 14 24 46.72 | -41 52 54.5 | Q | 615 | 600 | 631 |
| 82 | 14 54 27.60 | -37 47 34.7 | B1451-375 | 14 51 18.47 | -37 35 24.2 | Q | 796 | 442 | 1150 |
| 83 | 15 04 24.98 | +10 29 39.3 | B1502+106 | 15 02 00.16 | +10 41 17.9 | Q | 636 | 178 | 1094 |
| 84 | 15 07 04.79 | -16 52 30.3 | B1504-166 | 15 04 16.42 | -16 40 59.3 | Q | 384 | 288 | 480 |
| 85 | 15 12 50.53 | -09 05 59.8 | B1510-089 | 15 10 08.90 | -08 54 47.5 | Q | 3473 | 607 | 6340 |
| 86 | 15 17 41.81 | -24 22 19.5 | B1514-241 | 15 14 45.27 | -24 11 22.6 | BL | 1190 | 600 | 1780 |
| 87 | 15 22 37.67 | -27 30 10.8 | B1519-273 | 15 19 37.24 | -27 19 30.2 | BL | 350 | 211 | 490 |
| 88 | 15 40 49.49 | +14 47 45.9 | B1538+149 | 15 38 30.24 | +14 57 21.9 | BL | 444 | 352 | 536 |
| 89 | 15 49 29.44 | +02 37 01.2 | B1546+027 | 15 46 58.30 | +02 46 06.2 | Q | 1138 | 517 | 1760 |
| 90 | 15 50 35.27 | +05 27 10.5 | B1548+056 | 15 48 06.94 | +05 36 11.3 | BL | 604 | 248 | 960 |
| 91 | 16 08 46.20 | +10 29 07.8 | B1606+106 | 16 06 23.40 | +10 36 59.9 | Q | 495 | 310 | 680 |
| 92 | 16 17 49.27 | -77 17 18.5 | B1610-771 | 16 10 51.47 | -77 09 52.4 | Q | 539 | 488 | 590 |
| 93 | 16 17 18.06 | -58 48 09.7 | B1613-586 | 16 13 05.50 | -58 40 47.0 | Q | 691 | | |
| 94 | 16 26 06.02 | -29 51 27.0 | B1622-297 | 16 22 57.24 | -29 44 41.4 | Q | 1025 | 400 | 1650 |
| 95 | 16 58 09.01 | +07 41 27.6 | B1655+077 | 16 55 43.96 | +07 45 59.8 | Q | 630 | 260 | 1000 |
| 96 | 17 00 53.16 | -26 10 51.7 | B1657-261 | 16 57 47.72 | -26 06 29.5 | Q | 1315 | 650 | 1980 |
| 97 | 17 33 02.68 | -13 04 49.1 | B1730-130 | 17 30 13.51 | -13 02 45.4 | Q | 3444 | 909 | 5980 |
| 98 | 17 43 58.86 | -03 50 04.6 | B1741-038 | 17 41 20.62 | -03 48 48.9 | Q | 1283 | 590 | 1976 |
| 99 | 17 51 32.81 | +09 39 00.8 | B1749+096 | 17 49 10.39 | +09 39 42.9 | BL | 3582 | 380 | 6784 |
| 100 | 18 00 30.43 | -24 04 01.5 | B1757-240 | 17 57 26.80 | -24 03 57.0 | Q | 11180 | 8360 | 14000 |
| 101 | 18 33 39.89 | -21 03 39.8 | B1830-211 | 18 30 40.60 | -21 06 00.0 | Q | 1096 | 520 | 1673 |
| 102 | 18 37 28.71 | -71 08 43.5 | B1831-711 | 18 31 41.21 | -71 11 14.2 | Q | 495 | 475 | 515 |
| 103 | 19 11 09.66 | -20 06 55.1 | B1908-201 | 19 08 12.47 | -20 11 55.2 | Q | 958 | 870 | 1046 |

| No. | _RAJ2000 | _DEJ2000 | Name | RAB1950 | DEB1950 | Type | Sc | Smin | Smax |
|-----|-------------|-------------|-----------|-------------|-------------|------|------|------|-------|
| | "h:m:s" | "d:m:s" | | "h:m:s" | "d:m:s" | | mJy | mJy | mJy |
| 104 | 19 24 51.06 | -29 14 30.1 | B1921-293 | 19 21 42.24 | -29 20 26.4 | BL | 6517 | 2210 | 10825 |
| 105 | 19 37 16.30 | -39 58 01.3 | B1933-400 | 19 33 51.21 | -40 04 47.3 | Q | 599 | 569 | 630 |
| 106 | 19 57 59.82 | -38 45 07.0 | B1954-388 | 19 54 39.05 | -38 53 14.2 | Q | 1245 | 978 | 1513 |
| 107 | 20 00 57.09 | -17 48 57.6 | B1958-179 | 19 58 04.61 | -17 57 17.0 | Q | 1794 | 959 | 2630 |
| 108 | 20 09 25.39 | -48 49 53.8 | B2005-489 | 20 05 46.56 | -48 58 43.5 | BL | 698 | 606 | 790 |
| 109 | 20 11 15.71 | -15 46 40.3 | B2008-159 | 20 08 25.92 | -15 55 38.3 | Q | 627 | 544 | 710 |
| 110 | 21 09 33.19 | -41 10 20.6 | B2106-413 | 21 06 19.40 | -41 22 33.6 | Q | 664 | | |
| 111 | 21 23 44.52 | +05 35 22.2 | B2121+053 | 21 21 14.81 | +05 22 27.4 | Q | 721 | 520 | 923 |
| 112 | 21 31 35.26 | -12 07 04.8 | B2128-123 | 21 28 52.68 | -12 20 20.6 | Q | 459 | 350 | 568 |
| 113 | 21 34 10.30 | -01 53 17.2 | B2131-021 | 21 31 35.13 | -02 06 40.0 | Q | 655 | 500 | 810 |
| 114 | 21 36 38.59 | +00 41 54.5 | B2134+004 | 21 34 05.22 | +00 28 25.3 | Q | 675 | 521 | 830 |
| 115 | 21 48 05.45 | +06 57 38.6 | B2145+067 | 21 45 36.08 | +06 43 40.8 | Q | 2995 | 1600 | 4390 |
| 116 | 21 58 06.29 | -15 01 09.3 | B2155-152 | 21 55 23.25 | -15 15 30.2 | BL | 975 | 460 | 1490 |
| 117 | 22 13 02.49 | -25 29 30.1 | B2210-257 | 22 10 14.13 | -25 44 22.5 | Q | 310 | 101 | 520 |
| 118 | 22 18 52.04 | -03 35 36.9 | B2216-038 | 22 16 16.39 | -03 50 40.8 | Q | 455 | 250 | 660 |
| 119 | 22 25 47.26 | -04 57 01.4 | B2223-052 | 22 23 11.08 | -05 12 17.9 | Q | 6579 | 1448 | 11710 |
| 120 | 22 29 40.08 | -08 32 54.5 | B2227-088 | 22 27 02.34 | -08 48 17.8 | Q | 755 | 130 | 1380 |
| 121 | 22 32 36.41 | +11 43 50.9 | B2230+114 | 22 30 07.81 | +11 28 22.7 | Q | 1445 | 920 | 1970 |
| 122 | 22 35 13.23 | -48 35 58.8 | B2232-488 | 22 32 11.46 | -48 51 31.1 | Q | 1030 | 1000 | 1060 |
| 123 | 22 46 18.23 | -12 06 51.3 | B2243-123 | 22 43 39.80 | -12 22 40.4 | Q | 927 | 655 | 1200 |
| 124 | 22 53 57.75 | +16 08 53.5 | B2251+158 | 22 51 29.53 | +15 52 54.2 | Q | 5383 | 2470 | 8296 |
| 125 | 22 58 05.96 | -27 58 21.3 | B2255-282 | 22 55 22.46 | -28 14 25.8 | Q | 2622 | 805 | 4439 |
| 126 | 23 20 44.86 | +05 13 50.0 | B2318+049 | 23 18 12.14 | +04 57 23.4 | Q | 605 | 150 | 1060 |
| 127 | 23 23 31.95 | -03 17 05.1 | B2320-035 | 23 20 57.53 | -03 33 33.8 | Q | 485 | | |
| 128 | 23 29 17.70 | -47 30 19.1 | B2326-477 | 23 26 33.71 | -47 46 51.8 | Q | 689 | 608 | 770 |
| 129 | 23 48 02.61 | -16 31 12.0 | B2345-167 | 23 45 27.69 | -16 47 52.7 | Q | 1307 | 754 | 1860 |
| 130 | 23 57 53.27 | -53 11 13.7 | B2355-534 | 23 55 18.17 | -53 27 56.1 | Q | 457 | 437 | 477 |

Annex 3: List of Potential SPIRE Pointing Sources

| | | |
|--------------|---|--|
| Notes | Cat | S indicates SEST catalogue; J indicates JCMT catalogue |
| | PKSB | Parkes catalogue designation (1950 epoch) |
| | PKSJ | Parkes catalogue designation (2000 epoch) |
| | Other | Alternative commonly used name |
| | Coordinates | Source position from NED unless otherwise indicated |
| | α | Estimated submillimetre spectral index, based on SED information in NED |
| | Env | TBD indicator of confusion noise in the source environment |
| | Ver | Indication that all data herein on the source have been checked and that it is declared usable as a pointing source |
| | Measured S(λ) | Some sources have both JCMT and SEST data - both are indicated; JCMT data are more reliable, being based on more recent observations and closer in wavelength to SPIRE bands |
| | Visibility | Based on restricted solar aspect angle range |

| No | Cat | Name | | | Coordinates (J2000) | | | | | | α | Measured S(λ) (Jy) | | | | | | Est. S(λ) (Jy) | | | Env | Ver (Y/N) | CoP/PV Visibility (Restricted) |
|----|-----|----------|-----------|------------|---------------------|-----|---------|-----|-----|--------|----------|------------------------------|-----|---------------------|------|-----|------|--------------------------|------|------|-----|-----------|--------------------------------|
| | | | | | | | | | | | | 850 μ m (JCMT) | | 1200 μ m (SEST) | | 250 | 350 | 500 | Min | Min | | | |
| | | Typ | Range | Avg | Range | Min | Min | Min | Min | Min | | Min | | | | | | | | | | | |
| 1 | S | | | EQ1757-240 | 18 | 0 | 30.43 | -24 | 4 | 1.500 | -0.7 | | | | 11.2 | 8.4 | 14.0 | 2.8 | 3.5 | 4.5 | | Y | N |
| 2 | J | 0851+202 | 0854+2006 | OJ287 | 8 | 54 | 48.8749 | 20 | 6 | 30.641 | -0.5 | 4 | 3.3 | 5.1 | | | | 1.8 | 2.1 | 2.5 | | Y | N |
| 3 | J | 1921-293 | 1325-4303 | | 19 | 24 | 51.0559 | -29 | 14 | 30.120 | -1.16 | 4 | 4 | 5 | | | | 1.0 | 1.4 | 2.2 | | Y | N |
| | S | 1921-293 | 1325-4303 | | | | | | | | | | | | | | | 0.36 | 0.53 | 0.80 | | | |
| 4 | J | 2230+114 | 2232+1143 | 4C+11.69 | 22 | 32 | 36.4089 | 11 | 43 | 50.904 | -0.96 | 3.3 | 3.3 | 3.5 | | | | 1.0 | 1.4 | 2.0 | | Y | N |
| 5 | J | | | 8C0716+714 | 7 | 21 | 53.4484 | 71 | 20 | 36.363 | -0.38 | 1.7 | 1.6 | 2.5 | | | | 1.0 | 1.1 | 1.3 | | Y | N |
| 6 | J | 0420-014 | 0423-0120 | | 4 | 23 | 15.8007 | -1 | 20 | 33.064 | -0.54 | 1.8 | 1.8 | 6.1 | | | | 0.93 | 1.1 | 1.4 | | Y | OD65 - 115 |
| 7 | J | 1226+023 | 1229+0203 | 3C273 | 12 | 29 | 6.6997 | 2 | 3 | 8.598 | -0.73 | 2.1 | 2.1 | 4.2 | | | | 0.86 | 1.1 | 1.4 | | Y | Up to OD75 |
| | S | 1226+023 | | | 12 | 29 | 6.6997 | 2 | 3 | 8.598 | -0.73 | | | | 14.7 | 1.2 | 28.2 | 0.37 | 0.47 | 0.62 | | | |
| 8 | J | 2251+158 | 2253+1608 | 3C454.3 | 22 | 53 | 57.7479 | 16 | 8 | 53.560 | -1.16 | 7 | 3.4 | 7 | | | | 0.82 | 1.2 | 1.8 | | Y | Up to OD40 |
| | S | 2251+158 | 2253+1608 | 3C454.3 | | | | | | | | | | | | | | 5.4 | 2.5 | 8.3 | | | |
| 9 | J | 0537-441 | 0538-4405 | | 5 | 38 | 50.3614 | -44 | 5 | 8.934 | -0.88 | 2.3 | 2.3 | | | | | 0.78 | 1.0 | 1.4 | | Y | Y |
| 10 | J | 1253-055 | 1256-0547 | 3C279 | 12 | 56 | 11.1665 | -5 | 47 | 21.523 | -1.29 | 3.4 | 3.4 | 7.6 | | | | 0.70 | 1.1 | 1.7 | | Y | OD42 - 85 |
| | S | 1253-055 | 1256-0547 | 3C279 | | | | | | | | | | | | | | 13.2 | 4.0 | 22.4 | | | |
| 11 | J | 1334-127 | 1337-1257 | | 13 | 37 | 39.7827 | -12 | 57 | 24.692 | -1.04 | 2.4 | 2.4 | 3.8 | | | | 0.67 | 1.0 | 1.4 | | Y | OD55 - 99 |
| 12 | S | 0454-463 | 0455-4615 | | 4 | 55 | 50.7724 | -46 | 15 | 58.681 | -1.07 | | | | 3.6 | 3.6 | 3.7 | 0.66 | 0.95 | 1.4 | | Y | Up to OD129 |
| 13 | S | 2223-052 | 2225-0457 | 3C446 | 22 | 25 | 47.2592 | -4 | 57 | 1.390 | -0.56 | | | | 6.6 | 1.4 | 11.7 | 0.60 | 0.73 | 0.89 | | Y | N |
| 14 | J | 1741-038 | 1743-0350 | | 17 | 43 | 58.8561 | -3 | 50 | 4.616 | -0.98 | 1.9 | 1.9 | 2.1 | | | | 0.58 | 0.80 | 1.1 | | Y | OD115-160 |
| 15 | J | | | BL Lac | 22 | 2 | 43.2913 | 42 | 16 | 39.979 | -0.54 | 4.4 | 1.1 | 4.4 | | | | 0.57 | 0.68 | 0.83 | | Y | Up to OD48 |
| 15 | S | 0906+015 | 0909+0121 | 4C+01.24 | 9 | 9 | 10.0915 | 1 | 21 | 35.618 | -0.85 | | | | 2.3 | 2.0 | 2.7 | 0.52 | 0.70 | 0.94 | | Y | N |
| 17 | J | | | 3C345 | 16 | 42 | 58.8099 | 39 | 48 | 36.993 | -0.93 | 1.5 | 1.5 | 2 | | | | 0.48 | 0.66 | 0.9 | | Y | OD75-200 |
| 18 | J | | | 4C+50.11 | 3 | 59 | 29.7472 | 50 | 57 | 50.161 | -1.16 | 1.8 | 1.8 | 3.1 | | | | 0.43 | 0.64 | 0.97 | | Y | OD71-122 |
| 19 | S | 1334-127 | 1337-1257 | | 13 | 37 | 39.7827 | -12 | 57 | 24.692 | -1.04 | | | | 4.1 | 2.2 | 5.9 | 0.43 | 0.61 | 0.89 | | Y | OD55-98 |
| 20 | S | 0506-612 | 0506-6109 | | 5 | 6 | 43.9887 | -61 | 9 | 40.993 | -0.93 | | | | 2.4 | 1.5 | 3.2 | 0.34 | 0.47 | 0.66 | | Y | Y |
| 21 | S | 2145+067 | 2148+0657 | 4C+06.69 | 21 | 48 | 5.4586 | 6 | 57 | 38.604 | -1.05 | | | | 3.0 | 1.6 | 4.4 | 0.31 | 0.44 | 0.64 | | Y | N |
| 22 | J | | | 4C+28.07 | 2 | 37 | 52.4056 | 28 | 48 | 8.990 | -1.31 | 1.3 | 1.2 | 1.5 | | | | 0.24 | 0.38 | 0.60 | | Y | OD52-95 |

| No | Cat | Name | | | Coordinates (J2000) | | | | | | α | Measured S(λ) (Jy) | | | | | | Est. S(λ) (Jy) | | | Env | Ver (Y/N) | CoP/PV Visibility (Restricted) |
|----|-----|----------|------|-------|---------------------|----|--------|-----|----|--------|----------|------------------------------|-------|-----|---------------------|------|------|--------------------------|------|------|-----|-----------|--------------------------------|
| | | | | | | | | | | | | 850 μ m (JCMT) | | | 1200 μ m (SEST) | | | 250 | 350 | 500 | | | |
| | | PKSB | PKSJ | Other | RA | | | Dec | | | | Typ | Range | Avg | Range | Min | Min | Min | | | | | |
| 16 | J | 0133+476 | | | 1 | 36 | 58.595 | 47 | 51 | 29.100 | -0.7 | 1.6 | 1.1 | 1.7 | | | | 0.22 | 0.34 | 0.55 | | | |
| 17 | J | 2223-052 | | | 22 | 25 | 47.259 | -4 | 57 | 1.390 | -0.7 | 1.3 | 1.1 | 1.3 | | | | 0.57 | 0.68 | 0.83 | | | |
| 18 | J | 1730-130 | | | 17 | 33 | 2.706 | -13 | 4 | 49.550 | -0.7 | 1.1 | 1.1 | 1.5 | | | | 0.47 | 0.59 | 0.76 | | | |
| 19 | J | 0003-066 | | | 0 | 6 | 13.893 | -6 | 23 | 35.330 | -0.7 | 1 | 1.1 | 1.7 | | | | 0.47 | 0.59 | 0.76 | | | |
| 20 | S | 0537-441 | | | 5 | 38 | 50.37 | -44 | 5 | 9.000 | -0.7 | | | | 2.02 | 1.30 | 2.74 | 0.43 | 0.55 | 0.70 | | | |
| 21 | J | 0607-157 | | | 6 | 9 | 40.95 | -15 | 42 | 40.670 | -0.7 | 1 | 1 | | | | | 0.42 | 0.54 | 0.69 | | | |
| 22 | J | 0754+100 | | | 7 | 57 | 6.643 | 9 | 56 | 34.850 | -0.7 | 1 | 1 | 1.1 | | | | 0.42 | 0.54 | 0.69 | | | |
| 23 | J | 0923+392 | | | 9 | 27 | 3.014 | 39 | 2 | 20.850 | -0.7 | 1 | 1 | 1.3 | | | | 0.42 | 0.54 | 0.69 | | | |
| 24 | J | 1514-241 | | | 15 | 17 | 41.813 | -24 | 22 | 19.480 | -0.7 | 1 | 0.9 | 1.1 | | | | 0.38 | 0.48 | 0.62 | | | |
| 25 | J | 1807+698 | | | 18 | 6 | 50.681 | 69 | 49 | 28.110 | -0.7 | 0.9 | 0.9 | 1 | | | | 0.45 | 0.55 | 0.67 | | | |
| 26 | S | 0851+202 | | | 8 | 54 | 48.87 | 20 | 6 | 30.600 | -0.7 | | | | 3.35 | 1.10 | 5.59 | 0.37 | 0.46 | 0.60 | | | |
| 27 | S | 0528+134 | | | 5 | 30 | 56.41 | 13 | 31 | 55.200 | -0.7 | | | | 1.20 | 1.09 | 1.30 | 0.36 | 0.46 | 0.59 | | | |
| 28 | S | 1144-379 | | | 11 | 47 | 1.34 | -38 | 12 | 11.500 | -0.7 | | | | 1.13 | 1.07 | 1.20 | 0.36 | 0.45 | 0.58 | | | |
| 29 | S | 0420-014 | | | 4 | 23 | 15.81 | -1 | 20 | 33.100 | -0.7 | | | | 2.56 | 1.05 | 4.07 | 0.35 | 0.44 | 0.57 | | | |
| 30 | S | 1055+018 | | | 10 | 58 | 29.61 | 1 | 33 | 58.900 | -0.7 | | | | 1.90 | 1.03 | 2.77 | 0.34 | 0.43 | 0.56 | | | |
| 31 | J | 0528+134 | | | 5 | 30 | 56.417 | 13 | 31 | 55.150 | -0.7 | 1.3 | 0.8 | 1.3 | | | | 0.34 | 0.43 | 0.55 | | | |
| 32 | J | 0727-115 | | | 7 | 30 | 19.112 | -11 | 41 | 12.600 | -0.7 | 0.8 | 0.8 | | | | | 0.34 | 0.43 | 0.55 | | | |
| 33 | J | 1633+382 | | | 16 | 35 | 15.493 | 38 | 8 | 4.500 | -0.7 | 0.8 | 0.8 | 1.6 | | | | 0.34 | 0.43 | 0.55 | | | |
| 34 | S | 0208-512 | | | 2 | 10 | 46.2 | -51 | 1 | 1.900 | -0.7 | | | | 2.62 | 1.00 | 4.24 | 0.33 | 0.42 | 0.54 | | | |
| 35 | S | 2232-488 | | | 22 | 35 | 13.23 | -48 | 35 | 58.800 | -0.7 | | | | 1.03 | 1.00 | 1.06 | 0.33 | 0.42 | 0.54 | | | |
| 36 | S | 1954-388 | | | 19 | 57 | 59.82 | -38 | 45 | 7.000 | -0.7 | | | | 1.25 | 0.98 | 1.51 | 0.33 | 0.41 | 0.53 | | | |
| 37 | S | 0202+149 | | | 2 | 4 | 50.41 | 15 | 14 | 11.000 | -0.7 | | | | 1.29 | 0.97 | 1.60 | 0.32 | 0.41 | 0.53 | | | |
| 38 | S | 1958-179 | | | 20 | 0 | 57.09 | -17 | 48 | 57.600 | -0.7 | | | | 1.79 | 0.96 | 2.63 | 0.32 | 0.40 | 0.52 | | | |
| 39 | S | 0529+075 | | | 5 | 32 | 39 | 7 | 32 | 43.300 | -0.7 | | | | 0.94 | 0.94 | 0.95 | 0.31 | 0.40 | 0.51 | | | |
| 40 | S | 0402-362 | | | 4 | 3 | 53.77 | -36 | 5 | 1.500 | -0.7 | | | | 1.72 | 0.94 | 2.50 | 0.31 | 0.40 | 0.51 | | | |
| 41 | S | 0221+067 | | | 2 | 24 | 28.42 | 6 | 59 | 23.400 | -0.7 | | | | 1.17 | 0.93 | 1.40 | 0.31 | 0.39 | 0.50 | | | |
| 42 | S | 2230+114 | | | 22 | 32 | 36.41 | 11 | 43 | 50.900 | -0.7 | | | | 1.45 | 0.92 | 1.97 | 0.31 | 0.39 | 0.50 | | | |
| 43 | S | 1730-130 | | | 17 | 33 | 2.68 | -13 | 4 | 49.100 | -0.7 | | | | 3.44 | 0.91 | 5.98 | 0.30 | 0.38 | 0.49 | | | |
| 44 | J | 1055+018 | | | 10 | 58 | 29.605 | 1 | 33 | 58.820 | -0.7 | 0.7 | 0.7 | 3.1 | | | | 0.30 | 0.38 | 0.48 | | | |
| 45 | J | 1908-202 | | | 19 | 11 | 9.653 | -20 | 6 | 55.110 | -0.7 | 0.7 | 0.7 | | | | | 0.30 | 0.38 | 0.48 | | | |
| 46 | J | 2005+403 | | | 20 | 7 | 44.945 | 40 | 29 | 48.600 | -0.7 | 0.7 | 0.7 | | | | | 0.30 | 0.38 | 0.48 | | | |
| 47 | J | 2255-282 | | | 22 | 58 | 5.963 | -27 | 58 | 21.260 | -0.7 | 0.7 | 0.7 | 1 | | | | 0.30 | 0.38 | 0.48 | | | |
| 48 | S | 0607-157 | | | 6 | 9 | 40.95 | -15 | 42 | 40.700 | -0.7 | | | | 2.67 | 0.88 | 4.47 | 0.29 | 0.37 | 0.48 | | | |
| 49 | S | 1908-201 | | | 19 | 11 | 9.66 | -20 | 6 | 55.100 | -0.7 | | | | 0.96 | 0.87 | 1.05 | 0.29 | 0.37 | 0.47 | | | |
| 50 | S | 1101-536 | | | 11 | 3 | 52.22 | -53 | 57 | 0.700 | -0.7 | | | | 0.86 | 0.81 | 0.91 | 0.27 | 0.34 | 0.44 | | | |
| 51 | S | 2255-282 | | | 22 | 58 | 5.96 | -27 | 58 | 21.300 | -0.7 | | | | 2.62 | 0.81 | 4.44 | 0.27 | 0.34 | 0.44 | | | |
| 52 | S | 0106+013 | | | 1 | 8 | 38.75 | 1 | 34 | 58.900 | -0.7 | | | | 1.17 | 0.80 | 1.54 | 0.27 | 0.34 | 0.43 | | | |
| 53 | J | 0454-234 | | | 4 | 57 | 3.179 | -23 | 24 | 52.020 | -0.7 | 0.7 | 0.6 | 0.8 | | | | 0.25 | 0.32 | 0.41 | | | |
| 54 | J | 1803+784 | | | 18 | 0 | 45.684 | 78 | 28 | 4.020 | -0.7 | 0.7 | 0.6 | 0.8 | | | | 0.25 | 0.32 | 0.41 | | | |

| No | Cat | Name | | | Coordinates (J2000) | | | | | | α | Measured S(λ) (Jy) | | | | | | Est. S(λ) (Jy) | | | Env | Ver (Y/N) | CoP/PV Visibility (Restricted) |
|----|-----|----------|------|-------|---------------------|-------|--------|-------|-----|--------|----------|------------------------------|-----|---------------------|------|------|------|--------------------------|------|------|-----|-----------|--------------------------------|
| | | PKSB | PKSJ | Other | RA | | | Dec | | | | 850 μ m (JCMT) | | 1200 μ m (SEST) | | 250 | 350 | 500 | | | | | |
| | | | | | Typ | Range | Avg | Range | Min | Min | | Min | | | | | | | | | | | |
| 55 | J | 0235+164 | | | 2 | 38 | 38.93 | 16 | 36 | 59.270 | -0.7 | 0.6 | 0.6 | 1.1 | | | | 0.25 | 0.32 | 0.41 | | | |
| 56 | J | 0736+017 | | | 7 | 39 | 18.034 | 1 | 37 | 4.620 | -0.7 | 0.6 | 0.6 | 3.4 | | | | 0.25 | 0.32 | 0.41 | | | |
| 57 | J | 1548+056 | | | 15 | 50 | 35.269 | 5 | 27 | 10.450 | -0.7 | 0.6 | 0.6 | 0.8 | | | | 0.25 | 0.32 | 0.41 | | | |
| 58 | J | 1611+343 | | | 16 | 13 | 41.064 | 34 | 12 | 47.910 | -0.7 | 0.6 | 0.6 | 0.8 | | | | 0.25 | 0.32 | 0.41 | | | |
| 59 | S | 2345-167 | | | 23 | 48 | 2.61 | -16 | 31 | 12.000 | -0.7 | | | | 1.31 | 0.75 | 1.86 | 0.25 | 0.32 | 0.41 | | | |
| 60 | S | 0521-365 | | | 5 | 22 | 57.98 | -36 | 27 | 30.900 | -0.7 | | | | 2.49 | 0.71 | 4.28 | 0.24 | 0.30 | 0.38 | | | |
| 61 | S | 0430+052 | | | 4 | 33 | 11.09 | 5 | 21 | 15.600 | -0.7 | | | | 0.79 | 0.70 | 0.88 | 0.23 | 0.30 | 0.38 | | | |
| 62 | S | 0823+033 | | | 8 | 25 | 50.33 | 3 | 9 | 24.500 | -0.7 | | | | 1.20 | 0.70 | 1.71 | 0.23 | 0.30 | 0.38 | | | |
| 63 | S | 0235+164 | | | 2 | 38 | 38.93 | 16 | 36 | 59.300 | -0.7 | | | | 2.38 | 0.69 | 4.06 | 0.23 | 0.29 | 0.38 | | | |
| 64 | S | 0735+178 | | | 7 | 38 | 7.39 | 17 | 42 | 19.000 | -0.7 | | | | 1.61 | 0.69 | 2.52 | 0.23 | 0.29 | 0.37 | | | |
| 65 | S | 1057-797 | | | 10 | 58 | 43.31 | -80 | 3 | 54.100 | -0.7 | | | | 0.92 | 0.68 | 1.15 | 0.23 | 0.29 | 0.37 | | | |
| 66 | S | 0637-752 | | | 6 | 35 | 46.55 | -75 | 16 | 16.800 | -0.7 | | | | 1.68 | 0.66 | 2.70 | 0.22 | 0.28 | 0.36 | | | |
| 67 | S | 2243-123 | | | 22 | 46 | 18.23 | -12 | 6 | 51.300 | -0.7 | | | | 0.93 | 0.66 | 1.20 | 0.22 | 0.28 | 0.35 | | | |
| 68 | S | 1657-261 | | | 17 | 0 | 53.16 | -26 | 10 | 51.700 | -0.7 | | | | 1.32 | 0.65 | 1.98 | 0.22 | 0.27 | 0.35 | | | |
| 69 | S | 0003-066 | | | 0 | 6 | 13.89 | -6 | 23 | 35.300 | -0.7 | | | | 0.89 | 0.65 | 1.13 | 0.22 | 0.27 | 0.35 | | | |
| 70 | S | 0605-085 | | | 6 | 7 | 59.69 | -8 | 34 | 50.000 | -0.7 | | | | 1.44 | 0.64 | 2.23 | 0.21 | 0.27 | 0.35 | | | |
| 71 | S | 0454-234 | | | 4 | 57 | 3.18 | -23 | 24 | 52.100 | -0.7 | | | | 0.67 | 0.64 | 0.71 | 0.21 | 0.27 | 0.35 | | | |
| 72 | J | 0954+658 | | | 9 | 58 | 47.245 | 65 | 33 | 54.820 | -0.7 | 1 | 0.5 | 1 | | | | 0.21 | 0.27 | 0.34 | | | |
| 73 | J | 1823+568 | | | 18 | 24 | 7.068 | 56 | 51 | 1.490 | -0.7 | 1 | 0.5 | 1.1 | | | | 0.21 | 0.27 | 0.34 | | | |
| 74 | J | 2134+004 | | | 21 | 36 | 38.586 | 0 | 41 | 54.210 | -0.7 | 0.7 | 0.5 | 0.7 | | | | 0.21 | 0.27 | 0.34 | | | |
| 75 | J | 0212+735 | | | 2 | 17 | 30.813 | 73 | 49 | 32.620 | -0.7 | 0.5 | 0.5 | | | | | 0.21 | 0.27 | 0.34 | | | |
| 76 | J | 0521-365 | | | 5 | 22 | 57.985 | -36 | 27 | 30.850 | -0.7 | 0.5 | 0.5 | 2.5 | | | | 0.21 | 0.27 | 0.34 | | | |
| 77 | J | 1313-333 | | | 13 | 16 | 7.986 | -33 | 38 | 59.170 | -0.7 | 0.5 | 0.5 | | | | | 0.21 | 0.27 | 0.34 | | | |
| 78 | J | 1622-253 | | | 16 | 25 | 46.892 | -25 | 27 | 38.330 | -0.7 | 0.5 | 0.5 | | | | | 0.21 | 0.27 | 0.34 | | | |
| 79 | J | 1958-179 | | | 20 | 0 | 57.09 | -17 | 48 | 57.670 | -0.7 | 0.5 | 0.5 | 0.8 | | | | 0.21 | 0.27 | 0.34 | | | |
| 80 | J | 2155-152 | | | 21 | 58 | 6.282 | -15 | 1 | 9.330 | -0.7 | 0.5 | 0.5 | 0.6 | | | | 0.21 | 0.27 | 0.34 | | | |
| 81 | J | 2227-088 | | | 22 | 29 | 40.084 | -8 | 32 | 54.440 | -0.7 | 0.5 | 0.5 | | | | | 0.21 | 0.27 | 0.34 | | | |
| 82 | J | 0735+178 | | | 7 | 38 | 7.394 | 17 | 42 | 19.000 | -0.7 | 0.4 | 0.5 | | | | | 0.21 | 0.27 | 0.34 | | | |
| 83 | S | 0336-019 | | | 3 | 39 | 30.94 | -1 | 46 | 35.800 | -0.7 | | | | 1.50 | 0.61 | 2.39 | 0.20 | 0.26 | 0.33 | | | |
| 84 | S | 2326-477 | | | 23 | 29 | 17.7 | -47 | 30 | 19.100 | -0.7 | | | | 0.69 | 0.61 | 0.77 | 0.20 | 0.26 | 0.33 | | | |
| 85 | S | 1510-089 | | | 15 | 12 | 50.53 | -9 | 5 | 59.800 | -0.7 | | | | 3.47 | 0.61 | 6.34 | 0.20 | 0.26 | 0.33 | | | |
| 86 | S | 2005-489 | | | 20 | 9 | 25.39 | -48 | 49 | 53.800 | -0.7 | | | | 0.70 | 0.61 | 0.79 | 0.20 | 0.26 | 0.33 | | | |
| 87 | S | 1127-145 | | | 11 | 30 | 7.05 | -14 | 49 | 27.400 | -0.7 | | | | 0.91 | 0.60 | 1.22 | 0.20 | 0.25 | 0.33 | | | |
| 88 | S | 1424-418 | | | 14 | 27 | 56.35 | -42 | 6 | 19.400 | -0.7 | | | | 0.62 | 0.60 | 0.63 | 0.20 | 0.25 | 0.33 | | | |
| 89 | S | 1514-241 | | | 15 | 17 | 41.81 | -24 | 22 | 19.500 | -0.7 | | | | 1.19 | 0.60 | 1.78 | 0.20 | 0.25 | 0.33 | | | |
| 90 | S | 1244-255 | | | 12 | 46 | 46.8 | -25 | 47 | 49.300 | -0.7 | | | | 1.30 | 0.59 | 2.01 | 0.20 | 0.25 | 0.32 | | | |
| 91 | S | 1741-038 | | | 17 | 43 | 58.86 | -3 | 50 | 4.600 | -0.7 | | | | 1.28 | 0.59 | 1.98 | 0.20 | 0.25 | 0.32 | | | |
| 92 | S | 0754+100 | | | 7 | 57 | 6.64 | 9 | 56 | 34.800 | -0.7 | | | | 0.79 | 0.57 | 1.02 | 0.19 | 0.24 | 0.31 | | | |
| 93 | S | 1933-400 | | | 19 | 37 | 16.3 | -39 | 58 | 1.300 | -0.7 | | | | 0.60 | 0.57 | 0.63 | 0.19 | 0.24 | 0.31 | | | |

| No | Cat | Name | | | Coordinates (J2000) | | | | | | α | Measured S(λ) (Jy) | | | | | | Est. S(λ) (Jy) | | | Env | Ver (Y/N) | CoP/PV Visibility (Restricted) |
|-----|-----|----------|------|-------|---------------------|-------|--------|-------|-----|--------|----------|------------------------------|-----|---------------------|------|------|------|--------------------------|------|------|-----|--------------|--------------------------------------|
| | | PKSB | PKSJ | Other | RA | | | Dec | | | | 850 μ m (JCMT) | | 1200 μ m (SEST) | | 250 | 350 | 500 | | | | | |
| | | | | | Typ | Range | Avg | Range | Min | Min | | Min | | | | | | | | | | | |
| 94 | S | 0048-427 | | | 0 | 51 | 9.49 | -42 | 26 | 33.300 | -0.7 | | | | 0.85 | 0.57 | 1.14 | 0.19 | 0.24 | 0.31 | | | |
| 95 | S | 2008-159 | | | 20 | 11 | 15.71 | -15 | 46 | 40.300 | -0.7 | | | | 0.63 | 0.54 | 0.71 | 0.18 | 0.23 | 0.29 | | | |
| 96 | S | 0426-380 | | | 4 | 28 | 40.38 | -37 | 56 | 19.700 | -0.7 | | | | 0.57 | 0.54 | 0.60 | 0.18 | 0.23 | 0.29 | | | |
| 97 | S | 0727-115 | | | 7 | 30 | 19.11 | -11 | 41 | 12.700 | -0.7 | | | | 1.49 | 0.54 | 2.43 | 0.18 | 0.23 | 0.29 | | | |
| 98 | S | 0422-380 | | | 4 | 24 | 42.36 | -37 | 56 | 21.400 | -0.7 | | | | 0.57 | 0.53 | 0.61 | 0.18 | 0.22 | 0.29 | | | |
| 99 | S | 1313-333 | | | 13 | 16 | 7.99 | -33 | 38 | 59.200 | -0.7 | | | | 2.10 | 0.52 | 3.68 | 0.17 | 0.22 | 0.28 | | | |
| 100 | S | 2134+004 | | | 21 | 36 | 38.59 | 0 | 41 | 54.500 | -0.7 | | | | 0.68 | 0.52 | 0.83 | 0.17 | 0.22 | 0.28 | | | |
| 101 | S | 1830-211 | | | 18 | 33 | 39.89 | -21 | 3 | 39.800 | -0.7 | | | | 1.10 | 0.52 | 1.67 | 0.17 | 0.22 | 0.28 | | | |
| 102 | S | 2121+053 | | | 21 | 23 | 44.52 | 5 | 35 | 22.200 | -0.7 | | | | 0.72 | 0.52 | 0.92 | 0.17 | 0.22 | 0.28 | | | |
| 103 | S | 0736+017 | | | 7 | 39 | 18.04 | 1 | 37 | 4.600 | -0.7 | | | | 2.05 | 0.52 | 3.59 | 0.17 | 0.22 | 0.28 | | | |
| 104 | S | 1546+027 | | | 15 | 49 | 29.44 | 2 | 37 | 1.200 | -0.7 | | | | 1.14 | 0.52 | 1.76 | 0.17 | 0.22 | 0.28 | | | |
| 105 | J | 1510-089 | | | 15 | 12 | 50.533 | -9 | 5 | 59.830 | -0.7 | 0.9 | 0.4 | 0.9 | | | | 0.17 | 0.21 | 0.28 | | | |
| 106 | J | 1034-293 | | | 10 | 37 | 16.08 | -29 | 34 | 2.810 | -0.7 | 0.5 | 0.4 | 0.5 | | | | 0.17 | 0.21 | 0.28 | | | |
| 107 | J | 1147+245 | | | 11 | 50 | 19.212 | 24 | 17 | 53.840 | -0.7 | 0.5 | 0.4 | 0.5 | | | | 0.17 | 0.21 | 0.28 | | | |
| 108 | J | 1308+326 | | | 13 | 10 | 28.664 | 32 | 20 | 43.780 | -0.7 | 0.5 | 0.4 | 1.3 | | | | 0.17 | 0.21 | 0.28 | | | |
| 109 | J | 2243-123 | | | 22 | 46 | 18.232 | -12 | 6 | 51.280 | -0.7 | 0.5 | 0.4 | 0.5 | | | | 0.17 | 0.21 | 0.28 | | | |
| 110 | J | 0048-097 | | | 0 | 50 | 41.318 | -9 | 29 | 5.210 | -0.7 | 0.4 | 0.4 | 0.5 | | | | 0.17 | 0.21 | 0.28 | | | |
| 111 | J | 0336-019 | | | 3 | 39 | 30.938 | -1 | 46 | 35.800 | -0.7 | 0.4 | 0.4 | 0.5 | | | | 0.17 | 0.21 | 0.28 | | | |
| 112 | J | 0529+075 | | | 5 | 32 | 38.998 | 7 | 32 | 43.350 | -0.7 | 0.4 | 0.4 | | | | | 0.17 | 0.21 | 0.28 | | | |
| 113 | J | 0605-085 | | | 6 | 7 | 59.699 | -8 | 34 | 49.980 | -0.7 | 0.4 | 0.4 | | | | | 0.17 | 0.21 | 0.28 | | | |
| 114 | J | 0836+710 | | | 8 | 41 | 24.365 | 70 | 53 | 42.170 | -0.7 | 0.4 | 0.4 | 0.7 | | | | 0.17 | 0.21 | 0.28 | | | |
| 115 | J | 1413+135 | | | 14 | 15 | 58.817 | 13 | 20 | 23.710 | -0.7 | 0.4 | 0.4 | | | | | 0.17 | 0.21 | 0.28 | | | |
| 116 | J | 1923+210 | | | 19 | 25 | 59.605 | 21 | 6 | 26.160 | -0.7 | 0.4 | 0.4 | | | | | 0.17 | 0.21 | 0.28 | | | |
| 117 | J | 1928+738 | | | 19 | 27 | 48.495 | 73 | 58 | 1.570 | -0.7 | 0.4 | 0.4 | | | | | 0.17 | 0.21 | 0.28 | | | |
| 118 | J | 2008-159 | | | 20 | 11 | 15.711 | -15 | 46 | 40.250 | -0.7 | 0.4 | 0.4 | | | | | 0.17 | 0.21 | 0.28 | | | |
| 119 | J | 2037+511 | | | 20 | 38 | 37.035 | 51 | 19 | 12.660 | -0.7 | 0.4 | 0.4 | 0.5 | | | | 0.17 | 0.21 | 0.28 | | | |
| 120 | J | 2201+315 | | | 22 | 3 | 14.976 | 31 | 45 | 38.270 | -0.7 | 0.4 | 0.4 | | | | | 0.17 | 0.21 | 0.28 | | | |
| 121 | S | 1104-445 | | | 11 | 7 | 8.7 | -44 | 49 | 7.700 | -0.7 | | | | 0.75 | 0.50 | 1.00 | 0.17 | 0.21 | 0.27 | | | |
| 122 | S | 0454-810 | | | 4 | 50 | 5.47 | -81 | 1 | 2.200 | -0.7 | | | | 0.52 | 0.50 | 0.53 | 0.17 | 0.21 | 0.27 | | | |
| 123 | S | 2131-021 | | | 21 | 34 | 10.3 | -1 | 53 | 17.200 | -0.7 | | | | 0.66 | 0.50 | 0.81 | 0.17 | 0.21 | 0.27 | | | |
| 124 | S | 0252-549 | | | 2 | 53 | 29.18 | -54 | 41 | 51.500 | -0.7 | | | | 0.54 | 0.50 | 0.58 | 0.17 | 0.21 | 0.27 | | | |
| 125 | S | 1610-771 | | | 16 | 17 | 49.27 | -77 | 17 | 18.500 | -0.7 | | | | 0.54 | 0.49 | 0.59 | 0.16 | 0.21 | 0.26 | | | |
| 126 | S | 0056-572 | | | 0 | 58 | 46.58 | -56 | 59 | 11.400 | -0.7 | | | | 0.51 | 0.48 | 0.54 | 0.16 | 0.20 | 0.26 | | | |
| 127 | S | 1831-711 | | | 18 | 37 | 28.71 | -71 | 8 | 43.500 | -0.7 | | | | 0.50 | 0.48 | 0.52 | 0.16 | 0.20 | 0.26 | | | |
| 128 | S | 0834-201 | | | 8 | 36 | 39.25 | -20 | 16 | 58.800 | -0.7 | | | | 0.81 | 0.47 | 1.16 | 0.16 | 0.20 | 0.25 | | | |
| 129 | S | 1045-188 | | | 10 | 48 | 6.62 | -19 | 9 | 35.800 | -0.7 | | | | 0.72 | 0.47 | 0.96 | 0.16 | 0.20 | 0.25 | | | |
| 130 | S | 2155-152 | | | 21 | 58 | 6.29 | -15 | 1 | 9.300 | -0.7 | | | | 0.98 | 0.46 | 1.49 | 0.15 | 0.19 | 0.25 | | | |
| 131 | S | 0403-132 | | | 4 | 5 | 34.01 | -13 | 8 | 13.700 | -0.7 | | | | 0.46 | 0.44 | 0.48 | 0.15 | 0.19 | 0.24 | | | |
| 132 | S | 1451-375 | | | 14 | 54 | 27.6 | -37 | 47 | 34.700 | -0.7 | | | | 0.80 | 0.44 | 1.15 | 0.15 | 0.19 | 0.24 | | | |

| No | Cat | Name | | | Coordinates (J2000) | | | | | | α | Measured S(λ) (Jy) | | | | | | Est. S(λ) (Jy) | | | Env | Ver (Y/N) | CoP/PV Visibility (Restricted) |
|-----|-----|----------|------|-------|---------------------|-------|--------|-------|-----|--------|----------|------------------------------|-----|---------------------|------|------|------|--------------------------|------|------|-----|-----------|--------------------------------|
| | | PKSB | PKSJ | Other | RA | | | Dec | | | | 850 μ m (JCMT) | | 1200 μ m (SEST) | | 250 | 350 | 500 | | | | | |
| | | | | | Typ | Range | Avg | Range | Min | Min | | Min | | | | | | | | | | | |
| 133 | S | 2355-534 | | | 23 | 57 | 53.27 | -53 | 11 | 13.700 | -0.7 | | | | 0.46 | 0.44 | 0.48 | 0.15 | 0.18 | 0.24 | | | |
| 134 | S | 1352-104 | | | 13 | 54 | 46.51 | -10 | 41 | 2.700 | -0.7 | | | | 0.49 | 0.43 | 0.55 | 0.14 | 0.18 | 0.23 | | | |
| 135 | S | 1413+135 | | | 14 | 15 | 58.82 | 13 | 20 | 23.700 | -0.7 | | | | 1.33 | 0.41 | 2.26 | 0.14 | 0.17 | 0.22 | | | |
| 136 | S | 1622-297 | | | 16 | 26 | 6.02 | -29 | 51 | 27.000 | -0.7 | | | | 1.03 | 0.40 | 1.65 | 0.13 | 0.17 | 0.22 | | | |
| 137 | S | 1034-293 | | | 10 | 37 | 16.08 | -29 | 34 | 2.900 | -0.7 | | | | 1.70 | 0.39 | 3.02 | 0.13 | 0.16 | 0.21 | | | |
| 138 | S | 0332-403 | | | 3 | 34 | 13.65 | -40 | 8 | 25.100 | -0.7 | | | | 0.84 | 0.39 | 1.30 | 0.13 | 0.16 | 0.21 | | | |
| 139 | J | 1044+719 | | | 10 | 48 | 27.62 | 71 | 43 | 35.940 | -0.7 | 0.9 | 0.3 | 1.2 | | | | 0.13 | 0.16 | 0.21 | | | |
| 140 | J | 0552+398 | | | 5 | 55 | 30.806 | 39 | 48 | 49.170 | -0.7 | 0.4 | 0.3 | 0.4 | | | | 0.13 | 0.16 | 0.21 | | | |
| 141 | J | 1418+546 | | | 14 | 19 | 46.597 | 54 | 23 | 14.780 | -0.7 | 0.4 | 0.3 | 0.8 | | | | 0.13 | 0.16 | 0.21 | | | |
| 142 | J | 0149+218 | | | 1 | 52 | 18.059 | 22 | 7 | 7.700 | -0.7 | 0.3 | 0.3 | | | | | 0.13 | 0.16 | 0.21 | | | |
| 143 | J | 0219+428 | | | 2 | 22 | 39.612 | 43 | 2 | 7.800 | -0.7 | 0.3 | 0.3 | | | | | 0.13 | 0.16 | 0.21 | | | |
| 144 | J | | | 3C120 | 4 | 33 | 11.096 | 5 | 21 | 15.620 | -0.7 | 0.3 | 0.3 | | | | | 0.13 | 0.16 | 0.21 | | | |
| 145 | J | 0642+449 | | | 6 | 46 | 32.026 | 44 | 51 | 16.590 | -0.7 | 0.3 | 0.3 | 0.4 | | | | 0.13 | 0.16 | 0.21 | | | |
| 146 | J | 0745+241 | | | 7 | 48 | 36.109 | 24 | 0 | 24.110 | -0.7 | 0.3 | 0.3 | 0.4 | | | | 0.13 | 0.16 | 0.21 | | | |
| 147 | J | 0748+126 | | | 7 | 50 | 52.046 | 12 | 31 | 4.830 | -0.7 | 0.3 | 0.3 | | | | | 0.13 | 0.16 | 0.21 | | | |
| 148 | J | 1538+149 | | | 15 | 40 | 49.492 | 14 | 47 | 45.880 | -0.7 | 0.3 | 0.3 | | | | | 0.13 | 0.16 | 0.21 | | | |
| 149 | J | 1622-297 | | | 16 | 26 | 6.021 | -29 | 51 | 26.970 | -0.7 | 0.3 | 0.3 | | | | | 0.13 | 0.16 | 0.21 | | | |
| 150 | J | 1749+096 | | | 17 | 51 | 32.819 | 9 | 39 | 0.730 | -0.7 | 0.3 | 0.3 | 1.2 | | | | 0.13 | 0.16 | 0.21 | | | |
| 151 | J | 2007+776 | | | 20 | 5 | 30.999 | 77 | 52 | 43.250 | -0.7 | 0.3 | 0.3 | 0.5 | | | | 0.13 | 0.16 | 0.21 | | | |
| 152 | J | 2021+317 | | | 20 | 23 | 19.017 | 31 | 53 | 2.310 | -0.7 | 0.3 | 0.3 | | | | | 0.13 | 0.16 | 0.21 | | | |
| 153 | J | 1739+522 | | | 17 | 40 | 36.978 | 52 | 11 | 43.410 | -0.7 | 0.1 | 0.3 | 0.1 | | | | 0.13 | 0.16 | 0.21 | | | |
| 154 | S | 1749+096 | | | 17 | 51 | 32.81 | 9 | 39 | 0.800 | -0.7 | | | | 3.58 | 0.38 | 6.78 | 0.13 | 0.16 | 0.21 | | | |
| 155 | S | 0920-397 | | | 9 | 22 | 46.42 | -39 | 59 | 35.100 | -0.7 | | | | 0.47 | 0.36 | 0.58 | 0.12 | 0.15 | 0.19 | | | |
| 156 | S | 1538+149 | | | 15 | 40 | 49.49 | 14 | 47 | 45.900 | -0.7 | | | | 0.44 | 0.35 | 0.54 | 0.12 | 0.15 | 0.19 | | | |
| 157 | S | 2128-123 | | | 21 | 31 | 35.26 | -12 | 7 | 4.800 | -0.7 | | | | 0.46 | 0.35 | 0.57 | 0.12 | 0.15 | 0.19 | | | |
| 158 | S | 0135-247 | | | 1 | 37 | 38.35 | -24 | 30 | 53.900 | -0.7 | | | | 0.71 | 0.35 | 1.07 | 0.12 | 0.15 | 0.19 | | | |
| 159 | S | 0302-623 | | | 3 | 3 | 50.63 | -62 | 11 | 25.600 | -0.7 | | | | 0.53 | 0.34 | 0.71 | 0.11 | 0.14 | 0.18 | | | |
| 160 | S | 1420-679 | | | 14 | 24 | 55.61 | -68 | 7 | 59.100 | -0.7 | | | | 0.37 | 0.32 | 0.42 | 0.11 | 0.14 | 0.18 | | | |
| 161 | S | 0215+015 | | | 2 | 17 | 48.96 | 1 | 44 | 49.600 | -0.7 | | | | 0.71 | 0.31 | 1.11 | 0.10 | 0.13 | 0.17 | | | |
| 162 | S | 1606+106 | | | 16 | 8 | 46.2 | 10 | 29 | 7.800 | -0.7 | | | | 0.50 | 0.31 | 0.68 | 0.10 | 0.13 | 0.17 | | | |
| 163 | S | 0113-118 | | | 1 | 16 | 12.52 | -11 | 36 | 15.500 | -0.7 | | | | 0.43 | 0.30 | 0.57 | 0.10 | 0.13 | 0.16 | | | |
| 164 | S | 0646-306 | | | 6 | 48 | 14.11 | -30 | 44 | 19.600 | -0.7 | | | | 0.38 | 0.30 | 0.46 | 0.10 | 0.12 | 0.16 | | | |
| 165 | S | 0458-020 | | | 5 | 1 | 12.81 | -1 | 59 | 14.300 | -0.7 | | | | 0.74 | 0.30 | 1.19 | 0.10 | 0.12 | 0.16 | | | |
| 166 | S | 1302-102 | | | 13 | 5 | 33.01 | -10 | 33 | 19.500 | -0.7 | | | | 0.38 | 0.29 | 0.47 | 0.10 | 0.12 | 0.16 | | | |
| 167 | S | 1124-186 | | | 11 | 27 | 4.39 | -18 | 57 | 17.400 | -0.7 | | | | 0.46 | 0.29 | 0.64 | 0.10 | 0.12 | 0.16 | | | |
| 168 | S | 1504-166 | | | 15 | 7 | 4.79 | -16 | 52 | 30.300 | -0.7 | | | | 0.38 | 0.29 | 0.48 | 0.10 | 0.12 | 0.16 | | | |
| 169 | S | 1145-676 | | | 11 | 47 | 33.63 | -67 | 53 | 41.800 | -0.7 | | | | 0.74 | 0.28 | 1.20 | 0.09 | 0.12 | 0.15 | | | |
| 170 | S | 0438-436 | | | 4 | 40 | 17.18 | -43 | 33 | 8.600 | -0.7 | | | | 0.42 | 0.28 | 0.55 | 0.09 | 0.12 | 0.15 | | | |
| 171 | S | 1354+195 | | | 13 | 57 | 4.43 | 19 | 19 | 7.400 | -0.7 | | | | 0.83 | 0.28 | 1.38 | 0.09 | 0.12 | 0.15 | | | |

| No | Cat | Name | | | Coordinates (J2000) | | | | | | α | Measured S(λ) (Jy) | | | | | | Est. S(λ) (Jy) | | | Env | Ver (Y/N) | CoP/PV Visibility (Restricted) |
|-----|-----|----------|------|---------|---------------------|-------|--------|-------|-----|--------|----------|------------------------------|-----|---------------------|------|------|------|--------------------------|------|------|-----|-----------|--------------------------------|
| | | PKSB | PKSJ | Other | RA | | | Dec | | | | 850 μ m (JCMT) | | 1200 μ m (SEST) | | 250 | 350 | 500 | | | | | |
| | | | | | Typ | Range | Avg | Range | Min | Min | | Min | | | | | | | | | | | |
| 172 | S | 0338-214 | | | 3 | 40 | 35.61 | -21 | 19 | 31.200 | -0.7 | | | | 0.38 | 0.27 | 0.50 | 0.09 | 0.11 | 0.15 | | | |
| 173 | S | 1655+077 | | | 16 | 58 | 9.01 | 7 | 41 | 27.600 | -0.7 | | | | 0.63 | 0.26 | 1.00 | 0.09 | 0.11 | 0.14 | | | |
| 174 | S | 1032-199 | | | 10 | 35 | 2.16 | -20 | 11 | 34.300 | -0.7 | | | | 0.37 | 0.26 | 0.49 | 0.09 | 0.11 | 0.14 | | | |
| 175 | J | 0829+046 | | | 8 | 31 | 48.877 | 4 | 29 | 39.090 | -0.7 | 0.5 | 0.2 | 0.5 | | | | 0.08 | 0.11 | 0.14 | | | |
| 176 | J | 0224+671 | | | 2 | 28 | 50.051 | 67 | 21 | 3.030 | -0.7 | 0.3 | 0.2 | 0.4 | | | | 0.08 | 0.11 | 0.14 | | | |
| 177 | J | 1156+295 | | | 11 | 59 | 31.834 | 29 | 14 | 43.830 | -0.7 | 0.3 | 0.2 | 0.4 | | | | 0.08 | 0.11 | 0.14 | | | |
| 178 | J | 0202+319 | | | 2 | 5 | 4.925 | 32 | 12 | 30.100 | -0.7 | 0.2 | 0.2 | | | | | 0.08 | 0.11 | 0.14 | | | |
| 179 | J | 0221+067 | | | 2 | 24 | 28.428 | 6 | 59 | 23.340 | -0.7 | 0.2 | 0.2 | 0.4 | | | | 0.08 | 0.11 | 0.14 | | | |
| 180 | J | 0306+102 | | | 3 | 9 | 3.624 | 10 | 29 | 16.340 | -0.7 | 0.2 | 0.2 | | | | | 0.08 | 0.11 | 0.14 | | | |
| 181 | J | 0458-020 | | | 5 | 1 | 12.81 | -1 | 59 | 14.260 | -0.7 | 0.2 | 0.2 | 0.5 | | | | 0.08 | 0.11 | 0.14 | | | |
| 182 | J | 0917+449 | | | 9 | 20 | 58.458 | 44 | 41 | 53.990 | -0.7 | 0.2 | 0.2 | | | | | 0.08 | 0.11 | 0.14 | | | |
| 183 | J | 1213-172 | | | 12 | 15 | 46.752 | -17 | 31 | 45.400 | -0.7 | 0.2 | 0.2 | 0.3 | | | | 0.08 | 0.11 | 0.14 | | | |
| 184 | J | 1606+106 | | | 16 | 8 | 46.203 | 10 | 29 | 7.780 | -0.7 | 0.2 | 0.2 | 0.3 | | | | 0.08 | 0.11 | 0.14 | | | |
| 185 | J | 1657-261 | | | 17 | 0 | 53.154 | -26 | 10 | 51.720 | -0.7 | 0.2 | 0.2 | | | | | 0.08 | 0.11 | 0.14 | | | |
| 186 | J | 1749+701 | | | 17 | 48 | 32.84 | 70 | 5 | 50.770 | -0.7 | 0.2 | 0.2 | | | | | 0.08 | 0.11 | 0.14 | | | |
| 187 | J | 2145+067 | | | 21 | 48 | 5.459 | 6 | 57 | 38.600 | -0.7 | 0.2 | 0.2 | 3 | | | | 0.08 | 0.11 | 0.14 | | | |
| 188 | S | 0805-077 | | | 8 | 8 | 15.54 | -7 | 51 | 9.800 | -0.7 | | | | 0.48 | 0.25 | 0.70 | 0.08 | 0.11 | 0.14 | | | |
| 189 | S | 1116+128 | | | 11 | 18 | 57.3 | 12 | 34 | 41.700 | -0.7 | | | | 3.24 | 0.25 | 6.22 | 0.08 | 0.11 | 0.14 | | | |
| 190 | S | 0048-097 | | | 0 | 50 | 41.32 | -9 | 29 | 5.200 | -0.7 | | | | 0.89 | 0.25 | 1.53 | 0.08 | 0.11 | 0.14 | | | |
| 191 | S | 2216-038 | | | 22 | 18 | 52.04 | -3 | 35 | 36.900 | -0.7 | | | | 0.46 | 0.25 | 0.66 | 0.08 | 0.11 | 0.14 | | | |
| 192 | S | 1548+056 | | | 15 | 50 | 35.27 | 5 | 27 | 10.500 | -0.7 | | | | 0.60 | 0.25 | 0.96 | 0.08 | 0.10 | 0.13 | | | |
| 193 | S | 1519-273 | | | 15 | 22 | 37.67 | -27 | 30 | 10.800 | -0.7 | | | | 0.35 | 0.21 | 0.49 | 0.07 | 0.09 | 0.11 | | | |
| 194 | S | 0138-097 | | | 1 | 41 | 25.83 | -9 | 28 | 43.700 | -0.7 | | | | 0.42 | 0.21 | 0.63 | 0.07 | 0.09 | 0.11 | | | |
| 195 | S | 1502+106 | | | 15 | 4 | 24.98 | 10 | 29 | 39.300 | -0.7 | | | | 0.64 | 0.18 | 1.09 | 0.06 | 0.08 | 0.10 | | | |
| 196 | S | 0112-017 | | | 1 | 15 | 17.1 | -1 | 27 | 4.600 | -0.7 | | | | 0.39 | 0.17 | 0.61 | 0.06 | 0.07 | 0.09 | | | |
| 197 | S | 0118-272 | | | 1 | 20 | 31.67 | -27 | 1 | 24.600 | -0.7 | | | | 0.38 | 0.16 | 0.60 | 0.05 | 0.07 | 0.09 | | | |
| 198 | S | 2318+049 | | | 23 | 20 | 44.86 | 5 | 13 | 50.000 | -0.7 | | | | 0.61 | 0.15 | 1.06 | 0.05 | 0.06 | 0.08 | | | |
| 199 | S | 2227-088 | | | 22 | 29 | 40.08 | -8 | 32 | 54.500 | -0.7 | | | | 0.76 | 0.13 | 1.38 | 0.04 | 0.05 | 0.07 | | | |
| 200 | J | | | PKS0106 | 1 | 8 | 38.771 | 1 | 35 | 0.320 | -0.7 | 0.2 | 0.1 | 0.3 | | | | 0.04 | 0.05 | 0.07 | | | |
| 201 | J | 0215+015 | | | 2 | 17 | 48.955 | 1 | 44 | 49.700 | -0.7 | 0.1 | 0.1 | | | | | 0.04 | 0.05 | 0.07 | | | |
| 202 | J | 2155-304 | | | 21 | 58 | 52.065 | -30 | 13 | 32.120 | -0.7 | 0.1 | 0.1 | | | | | 0.04 | 0.05 | 0.07 | | | |
| 203 | J | 2318+049 | | | 23 | 20 | 44.857 | 5 | 13 | 49.950 | -0.7 | 0.1 | 0.1 | 0.2 | | | | 0.04 | 0.05 | 0.07 | | | |
| 204 | S | 2210-257 | | | 22 | 13 | 2.49 | -25 | 29 | 30.100 | -0.7 | | | | 0.31 | 0.10 | 0.52 | 0.03 | 0.04 | 0.05 | | | |
| 205 | S | 1243-072 | | | 12 | 46 | 4.23 | -7 | 30 | 46.600 | -0.7 | | | | 0.27 | 0.09 | 0.45 | 0.03 | 0.04 | 0.05 | | | |
| 206 | S | 1149-084 | | | 11 | 52 | 17.19 | -8 | 41 | 4.000 | -0.7 | | | | 1.21 | 0.04 | 2.37 | 0.01 | 0.02 | 0.02 | | | |
| 207 | J | 0422+004 | | | 4 | 24 | 46.842 | 0 | 36 | 6.330 | -0.7 | 0.7 | | | | | | 0.00 | 0.00 | 0.00 | | | |
| 208 | J | 0300+471 | | | 3 | 3 | 35.242 | 47 | 16 | 16.280 | -0.7 | 0.6 | | | | | | 0.00 | 0.00 | 0.00 | | | |
| 209 | J | 2059+034 | | | 21 | 1 | 38.834 | 3 | 41 | 31.320 | -0.7 | 0.5 | | | | | | 0.00 | 0.00 | 0.00 | | | |
| 210 | J | 2345-167 | | | 23 | 48 | 2.609 | -16 | 31 | 12.020 | -0.7 | 0.5 | | | | | | 0.00 | 0.00 | 0.00 | | | |

| No | Cat | Name | | | Coordinates (J2000) | | | | | | α | Measured S(λ) (Jy) | | | | Est. S(λ) (Jy) | | | Env | Ver (Y/N) | CoP/PV Visibility (Restricted) | |
|-----|-----|----------|------|---------|---------------------|-------|-------|-------|-----|--------|----------|------------------------------|--|---------------------|------|--------------------------|------|------|------|-----------|--------------------------------|--|
| | | PKSB | PKSJ | Other | RA | | | Dec | | | | 850 μ m (JCMT) | | 1200 μ m (SEST) | | 250 | 350 | 500 | | | | |
| | | | | | Typ | Range | Avg | Range | Min | Min | | Min | | | | | | | | | | |
| 211 | J | | | PKS0438 | 4 | 40 | 17.18 | -43 | 33 | 8.600 | -0.7 | 0.4 | | | | | 0.00 | 0.00 | 0.00 | | | |
| 212 | S | 0104-408 | | | 1 | 6 | 45.11 | -40 | 34 | 20.000 | -0.7 | | | 0.74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 213 | S | 0130-171 | | | 1 | 32 | 43.48 | -16 | 54 | 48.500 | -0.7 | | | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 214 | S | 0239+108 | | | 2 | 42 | 29.17 | 11 | 1 | 0.700 | -0.7 | | | 0.67 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 215 | S | 0451-282 | | | 4 | 53 | 14.65 | -28 | 7 | 37.300 | -0.7 | | | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 216 | S | 0602-424 | | | 6 | 4 | 25.17 | -42 | 25 | 30.000 | -0.7 | | | 2.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 217 | S | 1613-586 | | | 16 | 17 | 18.06 | -58 | 48 | 9.700 | -0.7 | | | 0.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 218 | S | 2106-413 | | | 21 | 9 | 33.19 | -41 | 10 | 20.600 | -0.7 | | | 0.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 219 | S | 2320-035 | | | 23 | 23 | 31.95 | -3 | 17 | 5.100 | -0.7 | | | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |