

VLBI Observations of 416 Extragalactic Radio Sources

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Tracking Systems and Applications Sections

The Deep Space Network is establishing a high-accuracy VLBI celestial reference frame. This article presents VLBI results of observations of 416 radio sources with declinations north of -45° which have been conducted at frequencies of 2.3 GHz and 8.4 GHz. At 2.3 GHz, 323 of 391 radio sources observed were detected with a fringe spacing of 3 milliarcsec and a detection limit of ~ 0.1 Jy. At 8.4 GHz, 278 of 416 radio sources were detected with a fringe spacing of 1 milliarcsec and a detection limit of ~ 0.1 Jy. This survey was conducted primarily to determine the strength of compact components at 8.4 GHz for radio sources previously detected with VLBI at 2.3 GHz. Compact extragalactic radio sources with strong correlated flux densities at both frequencies are used to form a high-accuracy reference frame.

I. Introduction

Very Long Baseline Interferometry (VLBI) observations of 416 radio sources have been conducted at frequencies of 2.3 GHz and 8.4 GHz. The observations were performed on two intercontinental baselines composed of antennas of the NASA Deep Space Network (California-Spain and California-Australia). This survey was designed primarily to identify compact radio sources at 8.4 GHz. The observed sample was chosen mainly from sources which had already shown compact structure at 2.3 GHz on similar VLBI baselines. Such compact sources are required for the VLBI reference frame used for planetary spacecraft navigation, geodesy, astrometry, and

remote clock synchronization. With observation at dual frequencies (e.g., 2.3 GHz and 8.4 GHz), charged particle effects can be virtually eliminated in these studies. The investigation of the nature of these compact objects can also be aided by this survey, which complements similar previous surveys at 2.3 GHz (Refs. 1, 2).

II. Observed Sample

A high density of suitable VLBI sources is necessary in the ecliptic region for differential VLBI measurements of spacecraft motion and planetary dynamics. Within $\pm 10^\circ$ of the ecliptic, all 101 sources from a 2.3 GHz ecliptic VLBI survey (Ref. 2) and a 2.3 GHz full-sky VLBI survey (Ref. 1) with 2.3 GHz correlated flux densities greater than 0.3 Jy were included in our observations.

For other VLBI studies in geodesy, astrometry and clock synchronization, a much broader sky distribution of compact

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radio sources is required. For the region outside of the ± 10 deg band of the ecliptic with declinations of less than -45 deg, 113 out of 135 sources in the 2.3 GHz full-sky survey (Ref. 1) with 2.3 GHz correlated flux densities greater than 0.3 Jy were included in our observations.

Also selected for observation were 202 additional sources, most of which had been previously observed in either the ecliptic or full-sky VLBI surveys but which had correlated flux densities at 2.3 GHz less than 0.3 Jy.

III. Observations and Data Reduction

The station and baseline characteristics are listed in Table 1. Nineteen observing sessions involving VLBI baselines consisting of station pairs listed in Table 1 were conducted from October 1981 to August 1984. Each source was observed for at least 3 minutes. Data were taken at 2.3 GHz and 8.4 GHz on alternating seconds for all experiments except one, which observed at 8.4 GHz only. Typical 8.4 GHz (u, v) points were ($2.3 \times 10^8 \lambda$, $2.0 \times 10^8 \lambda$) on the Goldstone-Madrid baseline where generally high declination sources were observed, and ($2.1 \times 10^8 \lambda$, $2.1 \times 10^8 \lambda$) on the Goldstone-Tidbinbilla baseline where generally low declination sources were observed, where the spatial frequency in the east-west direction is denoted by u and in the north-south direction is denoted by v . The interferometers were sensitive to compact components smaller than the minimum fringe spacing of ~ 3 milliarcsec at 2.3 GHz and ~ 1 milliarcsec at 8.4 GHz.

The Mark II VLBI recording system (Ref. 3) was used to record the data. Digital sampling and phase stability were controlled by a hydrogen maser or rubidium frequency standard at each station. System temperatures either were measured at both antennas and both frequencies for each observation or were estimated using appropriate temperature versus elevation angle curves along with measured zenith system temperatures and approximate knowledge of the total flux densities of the sources. Standard flux density calibration sources for 2.3 GHz (Ref. 4) and 8.4 GHz (Ref. 5) were observed during most observing sessions to determine antenna sensitivity (efficiency) for use in flux density calibration. When such observations were not performed, nominal antenna sensitivities were used in the calibration. Right circular polarization was used for the observations.

The data tapes were correlated on the California Institute of Technology/Jet Propulsion Laboratory Mark II VLBI processor. Correlated flux densities were calculated in the manner described in a previous report (Ref. 6). The $5\text{-}\sigma$ 2.3 GHz detection limit for most observations (~ 60 sec coherent integrations) was ~ 0.1 Jy, although for longer integrations it reached ~ 0.05 Jy. The $5\text{-}\sigma$ detection limit at 8.4 GHz was

usually about ~ 0.15 Jy, although for longer observations it reached ~ 0.05 Jy. Random noise error was about ~ 0.02 Jy at 2.3 GHz and ~ 0.03 Jy at 8.4 GHz, but systematic errors in calibration of about 10 percent were the major sources of error for most observations. Because most sources have previously been detected at 2.3 GHz, positions accurate to 0.3 arcsec were available for 294 of the sources (Refs. 7–10), thus minimizing the search in delay and delay rate space. For previously unobserved sources, the search window was about ± 30 arcsec at 2.3 GHz.

IV. Results and Discussion

The correlated flux densities at 2.3 GHz and 8.4 GHz for 416 extragalactic radio sources are presented in Fig. 1. Notes concerning the entries in that figure appear below:

| Column | Notes |
|--------|--|
| 1 | Source name |
| 2/3 | J2000 position (2000.0 Barycenter Equatorial Coordinate System). Asterisked positions have typical uncertainties of 0.3 arcsec and are from Refs. 7–10. Other positions are from the literature, and in most cases, errors are less than 30 arcsec. |
| 4 | Number of 2.3 GHz observations. If blank, there was only one observation. |
| 5 | Correlated flux density at 2.3 GHz (13.1 cm). If there was more than one observation, the value given is an average over all observations. If the value is preceded by a "<" sign, the object was not detected and the value given is the $5\text{-}\sigma$ upper limit to the correlated flux density. For sources with multiple observations and no detections, the lowest of the upper limits is given. |
| 6 | Lowest value for the 2.3 GHz correlated flux density for sources with multiple observations. |
| 7 | Highest value for the 2.3 GHz correlated flux density for sources with multiple observations. |
| 8 | Number of 8.4 GHz observations. If blank, there was only one observation. |
| 9 | Correlated flux density at 8.4 GHz (3.6 cm). If there was more than one observation, the value given is an average over all observations. If the value is preceded by a "<" sign, the object was not detected and the value given is the $5\text{-}\sigma$ upper limit to the correlated flux density. For sources with multiple observations and no detections, the lowest of the upper limits is given. |

| <u>Column</u> | <u>Notes</u> |
|---------------|---|
| 10 | Lowest value for the 8.4 GHz correlated flux density for sources with multiple observations. |
| 11 | Highest value for the 8.4 GHz correlated flux density for sources with multiple observations. |

At 2.3 GHz, 323 of 391 (83%) radio sources observed were detected with a fringe spacing of 3 milliarcsec and a detection limit of ~ 0.1 Jy. At 8.4 GHz, 278 of 416 (67%) radio sources were detected with a fringe spacing of 1 milliarcsec and a detection limit of ~ 0.1 Jy. Readily apparent is the higher percentage of objects detected at 2.3 GHz. The lower fraction of sources detected at 8.4 GHz is primarily due to the fact that the sources were originally selected for observation from low frequency surveys. Figure 2 is a sky plot of all 278 detected objects at 8.4 GHz. Figure 3 displays a histogram of the flux densities at both 2.3 GHz and 8.4 GHz. The

distributions of the flux densities for the two observing frequencies are very similar.

Evident in the large deviations between the low and high values of correlated flux density in Fig. 1 of the multiply observed sources is the high degree of variability. Source variability is due to (1) resolvable source structure observed at different inteferometer hour angles and (2) intrinsic changes in source strength. The difference between the high and low correlated flux densities for multiply observed sources compared to the measurement errors discussed in Section III gives a measure of source variability over the available observations.

Only seven of the sources previously detected at 2.3 GHz (Refs. 1, 2) were not detected at either frequency in this survey. Four of these sources (3C 2, 3C 66B, P 1317+019 and P 2145-17) were previously detected at 2.3 GHz with very weak flux densities (~ 0.06 Jy) consistent with the detection threshold (~ 0.1 Jy). The other three sources (P 0122-00, P 0922+005, and P 1143-245) were previously detected at higher flux densities.

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Table 1. Observed stations and baselines

| Location | Designation | Diameter, m | Baseline, km | Length, $10^6 \lambda$ | |
|---------------------------|------------------|--------------|--------------------|------------------------|---------|
| | | | | 2.3 GHz | 8.4 GHz |
| Tidbinbilla, Australia | DSS 43 | 64 | 10.6×10^3 | 77 | 295 |
| Goldstone, California | DSS 14 DSS 13 | 64 } 26 } | | | |
| | | | 8.4×10^3 | 61 | 233 |
| Madrid, Spain | DSS 63 DSS 61 | 64 } 34 } | | | |

| (1) SOURCE NAME | (2) RIGHT ASCENSION (J2000) HR MN SEC | (3) DECLINATION (J2000) DEG MN SEC | (4) NUMBER OF OBS (2.3 GHz) | (5) 2.3 GHz CORRELATED FLUX DENSITY (JY) | (6) CORRELATED FLUX DENSITY (JY) | (7) HIGH (JY) | (8) NUMBER OF OBS (8.4 GHz) | (9) 8.4 GHz CORRELATED FLUX DENSITY (JY) | (10) CORRELATED FLUX DENSITY (JY) | (11) HIGH (JY) |
|--------------------|---|---|--------------------------------------|--|--|---------------------|--------------------------------------|--|---|----------------------|
| NRAD 5 | 0 6 13.84 | - 6 23 34.7 * | 3 | 0.50 | 0.40 | 0.55 | 3 | 0.31 | 0.18 | 0.41 |
| 3C 2 | 0 6 22.66 | - 0 4 33.1 | | < 0.07 | | | | < 0.14 | | |
| QC 0007+17 | 0 10 33.99 | 17 24 19.0 * | | 0.32 | | | | 0.25 | | |
| P 0008-264 | 0 11 1.22 | -26 12 33.2 * | 7 | 0.49 | 0.43 | 0.60 | 7 | 0.58 | 0.31 | 0.75 |
| P 0011-046 | 0 13 54.12 | - 4 23 52.0 * | | 0.23 | | | | 0.25 | | |
| P 0013-00 | 0 16 11.10 | - 0 15 12.5 * | | 0.33 | | | | 0.38 | | |
| 0016+73 | 0 19 45.73 | 73 27 30.2 | 2 | 0.34 | 0.32 | 0.35 | 2 | 0.42 | 0.41 | 0.42 |
| P 0019+058 | 0 22 32.71 | 6 8 0.0 * | 15 | 0.39 | 0.28 | 0.52 | 15 | 0.52 | 0.23 | 0.70 |
| P 0022-423 | 0 24 42.99 | -42 2 4.0 * | | 0.52 | | | | < 0.12 | | |
| P 0027+056 | 0 29 45.97 | 5 54 39.8 * | | 0.40 | | | | 0.15 | | |
| P 0030+19 | 0 32 38.24 | 19 53 44.7 | | < 0.09 | | | | < 0.14 | | |
| 0032+276 | 0 34 43.47 | 27 54 25.7 * | | 0.24 | | | | < 0.14 | | |
| QC 0035+12 | 0 38 18.04 | 12 27 30.7 * | | 0.13 | | | | 0.22 | | |
| P 0035-02 | 0 38 20.52 | - 2 7 40.3 * | | | | | 2 | 0.26 | 0.21 | 0.31 |
| P 0038-020 | 0 40 57.18 | - 1 46 14.8 | | 0.38 | | | | 0.23 | | |
| P 0041+001 | 0 43 35.72 | 0 24 19.1 | | < 0.06 | | | | < 0.06 | | |
| P 0047+023 | 0 49 43.30 | 2 37 2.9 * | | 0.21 | | | | 0.22 | | |
| 0047-051 | 0 50 21.52 | - 4 52 20.3 * | 3 | 0.15 | 0.15 | 0.16 | 3 | 0.26 | 0.26 | 0.27 |
| P 0048-09 | 0 50 40.34 | - 9 28 49.9 * | 2 | 0.84 | 0.77 | 0.90 | 2 | 0.74 | 0.60 | 0.87 |
| 0054-006 | 0 57 17.01 | - 0 24 33.3 * | | 0.15 | | | | 0.15 | | |
| P 0056-00 | 0 59 5.59 | 0 6 1.6 * | 2 | 0.47 | 0.46 | 0.47 | 3 | < 0.05 | 0.11 | 0.51 |
| P 0104-408 | 1 6 45.11 | -40 34 20.1 | | 1.78 | | | | 4.26 | | |
| 0105-008 | 1 8 27.01 | - 0 37 20.6 | | < 0.07 | | | | < 0.14 | | |
| P 0106+01 | 1 8 38.84 | 1 34 59.2 * | 27 | 2.60 | 1.99 | 3.31 | 28 | 1.07 | 0.21 | 1.44 |
| P 0108-079 | 1 10 50.04 | - 7 41 41.3 * | | 0.52 | | | | 0.20 | | |
| P 0111+021 | 1 13 43.18 | 2 22 16.5 * | 15 | 0.26 | 0.08 | 0.44 | 15 | 0.31 | 0.11 | 0.51 |
| P 0112-017 | 1 15 17.12 | - 1 27 4.8 * | | 0.55 | | | | 0.79 | | |
| QC 0114+07 | 1 17 26.18 | 7 42 17.9 * | | 0.08 | | | | 0.12 | | |
| P 0115+02 | 1 18 18.53 | 2 58 4.9 * | | 0.06 | | | | 0.15 | | |
| QC 0116+08 | 1 19 1.23 | 8 29 50.3 * | | 0.11 | | | | < 0.07 | | |
| P 0119+11 | 1 21 41.65 | 11 49 49.6 * | | 0.29 | | | | 0.46 | | |
| QC 0119+04 | 1 21 56.95 | 4 22 23.3 * | 6 | 0.31 | 0.05 | 1.00 | 6 | 0.53 | 0.31 | 0.66 |
| P 0122-00 | 1 25 28.97 | - 0 5 58.3 * | 2 | < 0.08 | | | 2 | < 0.14 | | |
| 0124+189 | 1 26 54.99 | 19 12 31.0 | | < 0.08 | | | | < 0.13 | | |
| 0131-001 | 1 34 12.64 | 0 3 45.9 | | 0.20 | | | | < 0.12 | | |
| DA 55 | 1 36 58.59 | 47 51 29.1 | 11 | 0.67 | 0.25 | 1.03 | 11 | 0.65 | 0.16 | 0.92 |
| P 0136+176 | 1 39 41.99 | 17 53 7.2 * | | 0.22 | | | | 0.09 | | |
| P 0137+012 | 1 39 57.33 | 1 31 46.4 * | | 0.09 | | | | < 0.07 | | |
| QC 0144+20 | 1 46 58.79 | 21 10 24.1 * | | 0.46 | | | | < 0.13 | | |
| DC 079 | 1 49 22.48 | 5 55 52.1 * | | 0.46 | | | | 0.46 | | |
| QC 0147+18 | 1 49 49.76 | 18 57 19.5 * | | 0.12 | | | | < 0.12 | | |
| P 0149+21 | 1 52 18.05 | 22 7 7.6 * | | 0.39 | | | | 0.68 | | |
| P 0150-334 | 1 53 10.11 | -33 10 25.9 * | | 0.77 | | | | 0.73 | | |
| P 0158+031 | 2 0 40.81 | 3 22 49.7 * | | 0.27 | | | | 0.11 | | |
| P 0159+034 | 2 1 51.51 | 3 43 9.2 * | | 0.09 | | | | 0.08 | | |

Fig. 1. VLBI survey results

| (1) SOURCE NAME | (2) RIGHT ASCENSION (J2000) HR MN SEC | (3) DECLINATION (J2000) DEG MN SEC | (4) NUMBER OF OBS (2.3 GHz) | (5) 2.3 GHz CORRELATED FLUX DENSITY (JY) | | | (8) NUMBER OF OBS (8.4 GHz) | (9) 8.4 GHz CORRELATED FLUX DENSITY (JY) | | | (11) HIGH (JY) |
|--------------------|---|---|--------------------------------------|--|------|------|--------------------------------------|--|------|------|----------------------|
| | | | | AVERAGE | LOW | HIGH | | AVERAGE | LOW | HIGH | |
| P 0201+113 | 2 3 46.73 | 11 34 44.4 * | 4 | 0.90 | 0.80 | 1.10 | 4 | 0.20 | 0.11 | 0.26 | |
| P 0202+14 | 2 4 50.47 | 15 14 10.2 * | 8 | 1.13 | 0.77 | 1.40 | 8 | 1.18 | 0.90 | 1.53 | |
| DW 0202+31 | 2 5 4.93 | 32 12 30.0 * | | 0.77 | | | | 0.34 | | | |
| 0212+735 | 2 17 30.83 | 73 49 32.7 * | 19 | 0.79 | 0.25 | 1.64 | 19 | 1.55 | 0.19 | 2.14 | |
| 3C 66A | 2 22 39.63 | 43 2 7.6 * | | 0.18 | | | | 0.21 | | | |
| 3C 66B | 2 23 11.42 | 42 59 31.2 * | | < 0.08 | | | | < 0.08 | | | |
| GC 0221+06 | 2 24 28.52 | 6 59 22.1 * | | 0.28 | | | | 1.24 | | | |
| DW 0224+67 | 2 28 50.03 | 67 21 2.9 | 2 | 0.92 | 0.90 | 0.93 | 2 | < 0.13 | | | |
| P 0229+13 | 2 31 45.90 | 13 22 54.6 * | | 0.48 | | | | 1.35 | | | |
| 0229+262 | 2 32 27.62 | 26 28 38.3 * | | 0.20 | | | | < 0.13 | | | |
| CTD 20 | 2 37 52.41 | 28 48 8.9 * | 15 | 1.32 | 0.74 | 1.76 | 15 | 2.05 | 0.94 | 2.96 | |
| GC 0235+16 | 2 38 38.95 | 16 36 58.9 * | 14 | 1.61 | 0.90 | 2.30 | 14 | 1.91 | 1.19 | 2.55 | |
| GC 0237+04 | 2 39 51.29 | 4 16 21.0 * | | 0.27 | | | | 0.52 | | | |
| OD 166 | 2 42 29.19 | 11 1 0.6 * | 10 | 0.89 | 0.75 | 1.11 | 10 | 0.61 | 0.39 | 1.00 | |
| 0242+238 | 2 45 16.83 | 24 5 34.9 * | | 0.12 | | | | 0.19 | | | |
| P 0246+064 | 2 48 58.11 | 6 41 43.8 | | < 0.09 | | | | < 0.16 | | | |
| GC 0250+17 | 2 53 34.90 | 18 5 42.3 * | | 0.29 | | | | 0.08 | | | |
| P 0253+13 | 2 56 35.00 | 13 34 35.5 * | | 0.05 | | | | 0.12 | | | |
| 0254+092 | 2 56 45.00 | 9 29 3.6 | 3 | < 0.10 | 0.45 | 0.51 | 8 | < 0.17 | 0.16 | 0.62 | |
| OD 094.7 | 2 59 27.06 | 7 47 39.9 * | | 0.48 | | | | 0.43 | | | |
| P 0259+07 | 3 1 49.93 | 7 25 7.0 | 9 | < 0.09 | | | 9 | < 0.15 | | | |
| DE 400 | 3 3 35.24 | 47 16 16.2 * | | 1.18 | 0.43 | 1.61 | | 2.28 | 1.28 | 2.89 | |
| 0300+162 | 3 3 15.01 | 16 26 14.8 | | < 0.10 | | | | < 0.11 | | | |
| 0305+039 | 3 8 26.32 | 4 6 37.8 | 2 | 0.18 | 0.17 | 0.28 | 2 | < 0.10 | 0.62 | 0.68 | |
| DE 110 | 3 9 3.64 | 10 29 16.0 * | | 0.22 | | | | 0.65 | | | |
| CTA 21 | 3 18 57.79 | 16 28 32.4 * | | 0.12 | | | | < 0.07 | | | |
| 3C 84 | 3 19 48.16 | 41 30 42.1 * | 4 | 2.18 | 1.08 | 3.75 | 4 | 0.97 | 0.83 | 1.28 | |
| P 0317+188 | 3 19 51.27 | 19 1 31.4 * | | 0.30 | | | | 0.14 | | | |
| 0322+245 | 3 25 4.35 | 24 44 32.0 | | < 0.24 | | | | < 0.14 | | | |
| GC 0322+22 | 3 25 35.91 | 22 24 12.2 * | | 0.33 | | | | < 0.07 | | | |
| P 0332-403 | 3 34 13.66 | -40 8 25.4 * | 7 | 0.94 | 0.78 | 1.13 | 7 | 0.88 | 0.50 | 1.44 | |
| NRAD 140 | 3 36 30.11 | 32 18 29.6 * | 12 | 0.97 | 0.37 | 1.70 | 12 | 0.50 | 0.31 | 0.94 | |
| P 0335-122 | 3 37 55.68 | -12 4 12.5 | 2 | < 0.08 | | | | < 0.13 | | | |
| P 0336-017 | 3 39 1.70 | -1 33 17.2 | | < 0.09 | | | | < 0.20 | | | |
| CTA 26 | 3 39 30.94 | -1 46 35.9 | | 1.44 | | | | 0.50 | | | |
| 0338+074 | 3 40 53.78 | 7 35 23.9 | | 0.21 | | | | < 0.10 | | | |
| P 0338-214 | 3 40 35.59 | -21 19 31.2 * | | 0.46 | | | | < 0.10 | | | |
| GC 0344+19 | 3 47 30.56 | 20 4 38.4 * | | 0.27 | | | | < 0.07 | | | |
| GC 0346+20 | 3 49 45.25 | 21 4 45.5 | | < 0.14 | | | | < 0.14 | | | |
| 0357+057 | 4 0 11.49 | 5 51 3.4 | | < 0.09 | | | | < 0.12 | | | |
| CTD 26 | 4 3 5.58 | 26 0 1.5 * | 2 | 0.26 | 0.21 | 0.32 | 2 | < 0.14 | | | |
| P 0400-319 | 4 2 21.27 | -31 47 26.0 * | | 0.66 | | | | 0.47 | | | |
| P 0402-362 | 4 3 53.75 | -36 5 2.0 | 9 | 0.52 | 0.48 | 0.58 | 9 | 1.39 | 0.59 | 1.91 | |
| P 0404+177 | 4 7 28.97 | 17 50 33.0 | | < 0.06 | | | | < 0.07 | | | |
| GC 0406+12 | 4 9 22.00 | 12 17 39.8 * | 14 | 0.54 | 0.34 | 1.60 | 14 | 0.34 | 0.22 | 0.45 | |

Fig. 1 (contd)

| (1) SOURCE NAME | (2) RIGHT ASCENSION (J2000) HR MN SEC | | (3) DECLINATION (J2000) DEG MN SEC | | (4) NUMBER OF OBS (2.3 GHz) | | (5) 2.3 GHz CORRELATED FLUX DENSITY (JY) | | (6) LOW (JY) | | (7) HIGH (JY) | | (8) NUMBER OF OBS (8.4 GHz) | | (9) 8.4 GHz CORRELATED FLUX DENSITY (JY) | | (10) LOW (JY) | | (11) HIGH (JY) | |
|--------------------|---|----|---|-----|--------------------------------------|--------|--|------|--------------------|------|---------------------|--|--------------------------------------|--|--|------|---------------------|--|----------------------|--|
| | | | | | | | | | | | | | | | | | | | | |
| P 0409+22 | 4 | 12 | 43.59 | 23 | 4 | 53.9 | 0.21 | 0.11 | | | | | | | 0.33 | | | | | |
| 3C 109 | 4 | 13 | 40.37 | 11 | 12 | 14.1 * | 0.11 | 0.44 | | | | | | | 0.17 | | | | | |
| P 0414-189 | 4 | 16 | 36.51 | -18 | 51 | 8.1 * | 0.44 | | | | | | | | 0.41 | | | | | |
| P 0420-01 | 4 | 23 | 15.80 | -1 | 20 | 33.1 | 1.79 | 1.63 | 1.63 | 2.00 | 2.00 | | 9 | | 1.76 | 1.03 | | | 2.63 | |
| GC 0423+23 | 4 | 26 | 34.95 | 23 | 27 | 48.4 * | 0.17 | | | | | | | | < 0.07 | | | | | |
| P 0423+051 | 4 | 26 | 36.66 | 5 | 18 | 18.9 * | 0.52 | 0.51 | 0.51 | 0.53 | 0.53 | | 2 | | 0.25 | 0.25 | | | 0.26 | |
| 0426+273 | 4 | 29 | 52.96 | 27 | 24 | 37.4 * | 0.21 | 0.21 | | | | | | | < 0.15 | | | | | |
| P 0426-380 | 4 | 28 | 40.43 | -37 | 56 | 19.7 * | 0.70 | 0.70 | | | | | | | 0.90 | | | | | |
| P 0428+20 | 4 | 31 | 3.69 | 20 | 37 | 34.1 | 0.13 | 0.13 | | | | | | | < 0.07 | | | | | |
| 3C 120 | 4 | 33 | 11.13 | 5 | 21 | 14.3 * | 0.37 | 0.08 | 0.08 | 0.56 | 0.56 | | 7 | | 0.26 | 0.13 | | | 0.45 | |
| P 0434-188 | 4 | 37 | 1.46 | -18 | 44 | 48.5 * | 0.74 | 0.74 | 0.57 | 0.80 | 0.80 | | 7 | | 0.44 | 0.15 | | | 0.75 | |
| P 0438-43 | 4 | 40 | 17.18 | -43 | 33 | 8.6 | 0.68 | 0.50 | 0.50 | 0.79 | 0.79 | | 6 | | 0.77 | 0.40 | | | 0.92 | |
| P 0446+11 | 4 | 49 | 7.67 | 11 | 21 | 28.3 * | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | | 2 | | 0.50 | 0.41 | | | 0.60 | |
| P 0446+20 | 4 | 49 | 25.76 | 20 | 44 | 34.9 | < 0.06 | | | | | | | | < 0.07 | | | | | |
| P 0451-28 | 4 | 53 | 14.60 | -28 | 7 | 36.7 * | 0.59 | | | | | | | | < 0.15 | | | | | |
| P 0452+23 | 4 | 55 | 22.90 | 23 | 10 | 19.1 | < 0.06 | | | | | | | | < 0.08 | | | | | |
| P 0454+06 | 4 | 57 | 7.76 | 6 | 45 | 6.5 * | 0.14 | 0.14 | | | | | | | 0.42 | | | | | |
| 0454+844 | 5 | 8 | 42.38 | 84 | 32 | 4.6 * | 0.50 | 0.50 | 0.35 | 0.66 | 0.66 | | 17 | | 0.38 | 0.21 | | | 0.63 | |
| P 0456+060 | 4 | 58 | 48.82 | 6 | 8 | 3.2 * | 0.16 | 0.16 | 0.14 | 0.17 | 0.17 | | | | 0.14 | | | | | |
| P 0458-02 | 5 | 1 | 12.82 | -1 | 59 | 14.6 * | 1.32 | | | | | | | | 0.61 | | | | | |
| P 0458+138 | 5 | 1 | 45.26 | 13 | 56 | 7.7 * | 0.13 | 0.13 | | | | | | | < 0.07 | | | | | |
| GC 0459+06 | 5 | 2 | 15.48 | 6 | 9 | 6.9 * | 0.42 | 0.42 | 0.41 | 0.43 | 0.43 | | 2 | | 0.31 | 0.28 | | | 0.34 | |
| 3C 133 | 5 | 2 | 58.47 | 25 | 16 | 25.4 * | 0.24 | 0.24 | | | | | | | 0.16 | | | | | |
| 0500+060 | 5 | 2 | 40.88 | 6 | 9 | 33.7 | < 0.09 | | | | | | | | < 0.14 | | | | | |
| 06 003 | 5 | 3 | 21.20 | 2 | 3 | 4.5 * | 0.77 | | | | | | | | 0.55 | | | | | |
| P 0502+049 | 5 | 5 | 23.17 | 4 | 59 | 42.2 * | 0.30 | 0.30 | 0.27 | 0.34 | 0.34 | | 2 | | 0.50 | 0.49 | | | 0.51 | |
| P 0504+23 | 5 | 7 | 6.41 | 23 | 51 | 13.7 | < 0.06 | | | | | | | | < 0.08 | | | | | |
| 0505+173 | 5 | 7 | 59.87 | 17 | 23 | 41.6 | < 0.10 | | | | | | | | < 0.16 | | | | | |
| 0506+056 | 5 | 9 | 25.95 | 5 | 41 | 35.4 * | 0.25 | 0.25 | | | | | | | < 0.13 | | | | | |
| P 0507+17 | 5 | 10 | 2.36 | 18 | 0 | 41.5 * | 0.33 | 0.33 | 0.24 | 0.45 | 0.45 | | 3 | | 0.57 | 0.21 | | | 0.81 | |
| P 0509+152 | 5 | 12 | 41.01 | 15 | 17 | 23.4 * | 0.66 | 0.66 | 0.37 | 0.81 | 0.81 | | 2 | | 0.20 | 0.14 | | | 0.26 | |
| P 0511-220 | 5 | 13 | 49.12 | -21 | 59 | 16.2 * | 0.31 | 0.31 | | | | | | | 0.67 | | | | | |
| 0514+109 | 5 | 16 | 46.81 | 10 | 57 | 57.8 | < 0.10 | | | | | | | | < 0.16 | | | | | |
| 0515+067 | 5 | 17 | 51.14 | 6 | 48 | 11.1 | < 0.10 | | | | | | | | < 0.15 | | | | | |
| 0516+144 | 5 | 19 | 31.07 | 14 | 28 | 24.2 | < 0.10 | | | | | | | | < 0.16 | | | | | |
| 3C 138 | 5 | 21 | 9.88 | 16 | 38 | 22.1 * | 0.34 | 0.34 | | | | | | | < 0.07 | | | | | |
| P 0521-36 | 5 | 22 | 57.97 | -36 | 27 | 30.7 * | 0.85 | 0.85 | | | | | | | 0.86 | | | | | |
| 0528-280 | 5 | 30 | 7.92 | -25 | 3 | 29.5 * | 0.34 | 0.34 | | | | | | | 0.13 | | | | | |
| P 0528+134 | 5 | 30 | 56.42 | 13 | 31 | 55.2 * | 1.15 | 1.15 | 0.66 | 1.53 | 1.53 | | 6 | | 1.06 | 0.69 | | | 1.66 | |
| P 0537-441 | 5 | 38 | 50.36 | -44 | 5 | 9.0 | 0.39 | 0.39 | 0.17 | 0.57 | 0.57 | | 4 | | 2.55 | 0.88 | | | 3.94 | |
| 0544+273 | 5 | 47 | 34.12 | 27 | 21 | 57.0 * | 0.21 | 0.21 | 0.17 | 0.25 | 0.25 | | 3 | | 0.31 | 0.29 | | | 0.32 | |
| DA 193 | 5 | 55 | 30.81 | 39 | 48 | 49.2 | 2.03 | 2.03 | 1.68 | 2.33 | 2.33 | | 9 | | 2.09 | 1.79 | | | 2.41 | |
| 0554+242 | 5 | 57 | 4.56 | 24 | 13 | 53.7 * | 0.23 | 0.23 | 0.17 | 0.34 | 0.34 | | 3 | | 0.20 | 0.12 | | | 0.32 | |
| 0556+238 | 5 | 59 | 32.02 | 23 | 53 | 54.0 * | 0.24 | 0.24 | 0.22 | 0.25 | 0.25 | | 3 | | 0.33 | 0.29 | | | 0.36 | |
| 0600+177 | 6 | 3 | 9.16 | 17 | 42 | 20.9 * | 0.34 | 0.34 | 0.32 | 0.35 | 0.35 | | 2 | | 0.24 | 0.20 | | | 0.28 | |

Fig. 1 (contd)

| (1) SOURCE NAME | (2) RIGHT ASCENSION (J2000) HR MN SEC | (3) DECLINATION (J2000) DEG MN SEC | (4) NUMBER OF OBS (2.3 GHz) | (5) 2.3 GHz CORRELATED FLUX DENSITY (JY) | | (6) CORRELATED FLUX DENSITY (JY) | | (7) HIGH (JY) | (8) NUMBER OF OBS (8.4 GHz) | (9) 8.4 GHz CORRELATED FLUX DENSITY (JY) | | (10) CORRELATED FLUX DENSITY (JY) | | (11) HIGH (JY) | |
|--------------------|---|---|--------------------------------------|--|------|--|-----|---------------------|--------------------------------------|--|------|---|-----|----------------------|--|
| | | | | AVERAGE | LOW | AVERAGE | LOW | | | AVERAGE | LOW | AVERAGE | LOW | | |
| P 0601+24 | 6 4 55.27 | 24 29 23.2 | | 0.10 | | | | | | < 0.07 | | | | | |
| P 0607-15 | 6 9 40.95 | -15 42 40.7 | 2 | 0.11 | 0.10 | | | 0.12 | 4 | 0.91 | 0.63 | | | 1.13 | |
| 0610+260 | 6 13 50.12 | 26 4 36.9 * | 2 | 0.45 | 0.10 | | | 0.12 | 2 | 0.11 | 0.10 | | | 0.11 | |
| 0619+82 | 6 26 3.03 | 82 2 25.6 | | < 0.10 | | | | | | < 0.09 | | | | | |
| P 0618+23 | 6 21 0.34 | 23 18 43.9 | | | | | | | | < 0.08 | | | | | |
| DH 335 | 6 24 19.02 | 38 56 48.6 * | 2 | 0.47 | 0.47 | | | 0.48 | 2 | 0.24 | 0.24 | | | 0.25 | |
| 0629+160 | 6 32 43.12 | 15 59 57.7 * | 2 | 0.29 | 0.28 | | | 0.31 | 2 | 0.15 | 0.14 | | | 0.16 | |
| 3C 166 | 6 45 24.09 | 21 21 51.1 * | | | | | | | | 0.27 | | | | | |
| P 0642-349 | 6 44 25.25 | -34 59 41.8 * | | 0.30 | | | | | | 0.38 | | | | | |
| P 0646-306 | 6 48 14.07 | -30 44 19.5 * | | 0.49 | | | | | | 0.26 | | | | | |
| GC 0650+37 | 6 53 58.28 | 37 5 40.6 * | 2 | 0.56 | 0.54 | | | 0.58 | 2 | 0.37 | 0.27 | | | 0.48 | |
| 0657+172 | 7 0 1.50 | 17 9 22.0 * | 2 | 0.82 | 0.81 | | | 0.83 | 2 | 0.93 | 0.90 | | | 0.95 | |
| 01 318 | 7 14 24.85 | 35 34 39.1 * | 2 | 0.72 | 0.66 | | | 0.78 | 2 | 0.21 | 0.19 | | | 0.24 | |
| P 0722+145 | 7 25 17.07 | 14 25 9.4 * | 3 | 0.45 | 0.43 | | | 0.48 | 3 | 0.36 | 0.35 | | | 0.39 | |
| DW 0723-00 | 7 25 50.65 | - 0 54 56.9 * | 6 | 0.56 | 0.31 | | | 0.76 | 6 | 0.63 | 0.34 | | | 0.99 | |
| P 0727-11 | 7 30 19.01 | -11 41 11.2 * | 4 | 0.74 | 0.56 | | | 0.85 | 4 | 1.61 | 1.16 | | | 1.90 | |
| GC 0729+25 | 7 32 56.28 | 25 48 38.7 * | 2 | 0.22 | 0.21 | | | 0.22 | 2 | 0.26 | 0.24 | | | 0.28 | |
| GC 0733+30 | 7 36 13.65 | 29 54 32.1 * | 3 | 0.34 | 0.32 | | | 0.37 | 3 | 0.32 | 0.31 | | | 0.36 | |
| P 0735+17 | 7 38 7.38 | 17 42 18.6 * | 6 | 0.70 | 0.54 | | | 0.90 | 6 | 1.18 | 0.81 | | | 1.49 | |
| P 0736-06 | 7 38 57.26 | - 6 26 59.7 * | | 0.25 | | | | | | 0.24 | | | | | |
| P 0736+01 | 7 39 18.07 | 1 37 3.8 * | | 0.71 | | | | | | 0.74 | | | | | |
| 01 363 | 7 41 10.73 | 31 12 0.2 * | 5 | 1.33 | 1.11 | | | 1.51 | 5 | 0.61 | 0.28 | | | 1.03 | |
| B2 0738+27 | 7 41 25.76 | 27 6 45.3 * | 4 | 0.18 | 0.10 | | | 0.25 | 4 | < 0.09 | | | | | |
| B2 0742+31 | 7 45 41.66 | 31 42 56.7 * | 3 | 0.20 | 0.07 | | | 0.43 | 3 | 0.31 | 0.24 | | | 0.34 | |
| DW 0742+10 | 7 45 33.09 | 10 11 12.7 * | 16 | 1.60 | 0.64 | | | 2.50 | 16 | 0.64 | 0.30 | | | 0.88 | |
| GC 0743+25 | 7 46 25.90 | 25 49 2.1 * | 3 | 0.48 | 0.47 | | | 0.48 | 3 | 0.36 | 0.33 | | | 0.37 | |
| B2 0745+24 | 7 48 36.17 | 24 0 23.1 * | 4 | 0.67 | 0.58 | | | 0.86 | 4 | 1.09 | 0.74 | | | 1.29 | |
| P 0748+126 | 7 50 52.01 | 12 31 5.0 * | 7 | 0.33 | 0.15 | | | 0.50 | 7 | 0.46 | 0.26 | | | 0.59 | |
| GC 0748+33 | 7 51 53.66 | 33 13 19.6 * | 3 | 0.33 | 0.32 | | | 0.35 | 3 | < 0.09 | | | | | |
| P 0754+100 | 7 57 6.66 | 9 56 34.6 * | 3 | 0.87 | 0.87 | | | 0.88 | 3 | 0.66 | 0.57 | | | 0.82 | |
| GC 0759+18 | 8 2 48.06 | 18 9 49.3 * | 4 | 0.32 | 0.26 | | | 0.39 | 4 | 0.21 | 0.18 | | | 0.23 | |
| GC 0802+21 | 8 5 38.60 | 21 6 50.6 * | 3 | 0.49 | 0.34 | | | 0.64 | 3 | < 0.09 | | | | | |
| GC 0805+26 | 8 8 36.78 | 26 46 36.6 * | | 0.11 | | | | | | < 0.13 | | | | | |
| P 0805-07 | 8 15.61 | - 7 51 11.5 * | | 0.41 | | | | | | 0.27 | | | | | |
| 0811+131 | 8 14 43.68 | 12 58 4.4 | | < 0.08 | | | | | | < 0.15 | | | | | |
| DJ 425 | 8 18 16.00 | 42 22 45.4 | 8 | 0.94 | 0.72 | | | 1.11 | 8 | 1.55 | 1.08 | | | 1.89 | |
| P 0820+22 | 8 23 24.84 | 22 23 1.9 * | 6 | 0.30 | 0.08 | | | 0.53 | 6 | 0.28 | 0.22 | | | 1.59 | |
| P 0823+033 | 8 25 50.37 | 3 9 24.2 * | | 0.44 | | | | | | 1.14 | | | | | |
| 0827+235 | 8 30 21.74 | 23 23 25.5 | | < 0.08 | | | | | | < 0.16 | | | | | |
| B2 0827+24 | 8 30 52.09 | 24 10 59.7 * | 2 | 0.35 | 0.31 | | | 0.40 | 2 | 0.40 | 0.40 | | | 0.40 | |
| GC 0834+25 | 8 37 40.23 | 24 54 23.0 * | | 0.25 | | | | | | 0.25 | | | | | |
| 4C 71.07 | 8 41 24.44 | 70 53 41.7 * | | 0.44 | | | | | | < 0.14 | | | | | |
| GC 0839+18 | 8 42 5.19 | 18 35 39.4 * | 2 | 0.28 | 0.23 | | | 0.32 | 2 | < 0.13 | | | | | |
| DJ 287 | 8 54 48.93 | 20 6 29.5 * | 8 | 1.37 | 0.14 | | | 1.79 | 9 | 3.57 | 0.99 | | | 4.73 | |
| 0854+342 | 8 57 40.26 | 34 4 39.6 | | < 0.07 | | | | | | < 0.13 | | | | | |

Fig. 1 (contd)

| (1) SOURCE NAME | (2) RIGHT ASCENSION (J2000) HR MN SEC | | (3) DECLINATION (J2000) DEG MN SEC | (4) NUMBER OF OBS (2.3 GHz) | (5) 2.3 GHz CORRELATED FLUX DENSITY (JY) | | (6) 8.4 GHz CORRELATED FLUX DENSITY (JY) | | (7) HIGH (JY) | (8) NUMBER OF OBS (8.4 GHz) | (9) 8.4 GHz CORRELATED FLUX DENSITY (JY) | | (10) CORRELATED FLUX DENSITY (JY) | | (11) HIGH (JY) | |
|--------------------|---|---------------|---|--------------------------------------|--|------|--|-----|---------------------|--------------------------------------|--|------|---|--|----------------------|--|
| | | | | | AVERAGE | LOW | AVERAGE | LOW | | | AVERAGE | LOW | | | | |
| P 0912+029 | 9 14 37.94 | 2 45 58.5 * | | | 0.18 | | | | | | 0.30 | | | | | |
| P 0922+005 | 9 25 10.06 | 0 20 27.1 * | | | < 0.08 | | | | | | < 0.10 | | | | | |
| 4C 39 25 | 9 27 3.01 | 39 2 19.7 * | | 9 | 1.22 | 0.63 | | | 1.83 | 9 | 0.97 | 0.64 | | | 1.43 | |
| P 0925-203 | 9 27 51.80 | -20 34 50.9 * | | | 0.10 | | | | | | 0.26 | | | | | |
| P 0931-114 | 9 33 34.45 | -11 39 25.9 * | | | 0.38 | | | | | | 0.18 | | | | | |
| MC 0938+119 | 9 41 13.55 | 11 45 32.0 * | | | 0.10 | | | | | | 0.10 | | | | | |
| AD 0952+17 | 9 54 56.82 | 17 43 31.1 * | | 3 | 0.13 | 0.08 | | | 0.17 | 3 | 0.34 | 0.29 | | | 0.39 | |
| OK 290 | 9 56 49.86 | 25 15 16.1 * | | 2 | 0.37 | 0.36 | | | 0.37 | 2 | 0.24 | 0.21 | | | 0.26 | |
| GC 1004+14 | 10 7 41.48 | 13 56 29.8 * | | 3 | 0.26 | 0.23 | | | 0.32 | 3 | 0.29 | 0.28 | | | 0.31 | |
| 1011+250 | 10 13 53.45 | 24 49 16.4 * | | | 0.16 | | | | | | 0.37 | | | | | |
| P 1012+232 | 10 14 47.07 | 23 1 16.4 * | | | 0.56 | | | | | | 0.68 | | | | 0.48 | |
| OC 1013+20 | 10 16 44.28 | 20 37 48.0 * | | 4 | 0.29 | 0.15 | | | 0.34 | 4 | 0.36 | 0.27 | | | | |
| P 1020+191 | 10 22 55.13 | 18 53 34.5 * | | | | | | | | | < 0.07 | | | | | |
| GC 1022+19 | 10 24 44.80 | 19 12 20.4 * | | 3 | 0.31 | 0.30 | | | 0.31 | 3 | 0.28 | 0.25 | | | 0.31 | |
| P 1034-374 | 10 36 53.50 | -37 44 15.0 * | | | 0.45 | | | | | | 0.26 | | | | | |
| P 1034-293 | 10 37 16.05 | -29 34 2.6 * | | 3 | 0.77 | 0.61 | | | 0.86 | 3 | 1.17 | 0.96 | | | 1.47 | |
| P 1036-154 | 10 39 6.71 | -15 41 6.7 * | | | 0.29 | | | | | | 0.24 | | | | | |
| DL 064.5 | 10 41 17.19 | 6 10 17.1 * | | 7 | 0.48 | 0.37 | | | 0.65 | 7 | 0.54 | 0.31 | | | 0.74 | |
| 1039+300 | 10 42 36.49 | 29 49 45.0 * | | | 0.19 | | | | | | < 0.14 | | | | | |
| 3C 245 | 10 42 44.57 | 12 3 31.6 * | | | | | | | | | 0.42 | | | | | |
| P 1042+071 | 10 44 55.91 | 6 55 38.2 * | | 4 | 0.25 | 0.18 | | | 0.32 | 4 | 0.24 | 0.20 | | | 0.28 | |
| 1044+71 | 10 48 27.62 | 71 43 35.8 * | | | 0.75 | | | | | | 0.36 | | | | | |
| P 1045-18 | 10 48 6.63 | -19 9 35.7 * | | | 0.53 | | | | | | 0.84 | | | | | |
| P 1045+05C | 10 49 32.94 | 5 5 42.6 * | | | | | | | | | < 0.07 | | | | | |
| 1053+70 | 10 56 53.62 | 70 11 45.8 * | | | 0.19 | | | | | | 0.43 | | | | | |
| P 1055+01 | 10 58 29.61 | 1 33 55.7 * | | 9 | 0.63 | 0.49 | | | 0.91 | 9 | 1.41 | 1.12 | | | 1.59 | |
| GC 1104+16 | 11 7 15.04 | 16 28 2.4 * | | | 0.20 | | | | | | 0.14 | | | | | |
| P 1104-445 | 11 7 8.70 | -44 49 7.4 * | | 3 | 1.40 | 1.19 | | | 1.79 | 3 | 0.93 | 0.75 | | | 1.07 | |
| GC 1111+14 | 11 13 58.68 | 14 42 27.3 * | | | 0.37 | | | | | | 0.11 | | | | | |
| P 1118-05 | 11 21 25.39 | -5 53 41.0 * | | | < 0.09 | | | | | | < 0.13 | | | | | |
| P 1123+26 | 11 25 53.68 | 26 10 19.5 * | | 7 | 0.58 | 0.47 | | | 0.68 | 7 | 0.49 | 0.42 | | | 0.65 | |
| P 1124-186 | 11 27 4.42 | -18 57 17.8 * | | | 1.05 | | | | | | 0.61 | | | | | |
| P 1127-045 | 11 29 35.41 | -4 47 4.6 * | | | | | | | | | < 0.06 | | | | | |
| P 1127-14 | 11 30 7.06 | -14 49 27.3 * | | 3 | 0.48 | 0.36 | | | 0.68 | 3 | 0.45 | 0.17 | | | 0.73 | |
| OC 1128+38 | 11 30 53.28 | 38 15 18.9 * | | 7 | 0.83 | 0.73 | | | 0.90 | 7 | 1.03 | 0.65 | | | 1.42 | |
| P 1130+10C | 11 33 0.42 | 10 23 30.3 * | | | 0.09 | | | | | | < 0.07 | | | | | |
| P 1142+052 | 11 45 21.24 | 4 55 27.7 * | | | 0.13 | | | | | | < 0.12 | | | | | |
| P 1143-245 | 11 46 8.10 | -24 47 32.7 * | | | < 0.09 | | | | | | < 0.15 | | | | | |
| P 1144-379 | 11 47 1.47 | -38 12 11.2 * | | 3 | 0.94 | 0.87 | | | 1.02 | 3 | 3.63 | 2.75 | | | 4.31 | |
| 1144+352 | 11 47 22.13 | 35 1 7.3 * | | | 0.38 | | | | | | < 0.14 | | | | | |
| DM-076 | 11 47 51.40 | -7 24 38.6 * | | | 0.69 | | | | | | 0.24 | | | | 0.29 | |
| P 1148-00 | 11 50 43.97 | -0 24 22.8 * | | 9 | 0.31 | 0.19 | | | 0.70 | 9 | 0.22 | 0.09 | | | | |
| P 1149-084 | 11 52 17.20 | -8 41 3.3 * | | | 0.24 | | | | | | 0.15 | | | | | |
| P 1150+09 | 11 53 13.05 | 9 14 11.6 * | | | 0.08 | | | | | | < 0.07 | | | | | |
| P 1157-215 | 11 59 51.92 | -21 48 53.7 * | | | 0.38 | | | | | | 0.22 | | | | | |

Fig. 1 (contd)

| (1) SOURCE NAME | (2) RIGHT ASCENSION (J2000) HR MN SEC | | (3) DECLINATION (J2000) DEG MN SEC | (4) NUMBER OF OBS (2.3 GHz) | (5) 2.3 GHz CORRELATED FLUX DENSITY (JY) | | | (6) 8.4 GHz CORRELATED FLUX DENSITY (JY) | | | (7) HIGH (JY) | (8) NUMBER OF OBS (8.4 GHz) | (9) 8.4 GHz AVERAGE (JY) | (10) CORRELATED FLUX DENSITY (JY) | | (11) HIGH (JY) |
|--------------------|---|----|---|--------------------------------------|--|--------|------|--|--------|------|---------------------|--------------------------------------|-----------------------------------|---|--|----------------------|
| | | | | | AVERAGE | LOW | HIGH | AVERAGE | LOW | HIGH | | | | | | |
| | | | | | | | | | | | | | | | | |
| 1215-002 | 12 | 17 | 58.71 | - 0 29 45.8 * | | 0.08 | | | 0.13 | | | | | | | |
| P 1217+02 | 12 | 20 | 11.85 | 2 3 42.8 * | | 0.08 | | | 0.07 | | | | | | | |
| P 1222+037 | 12 | 24 | 52.43 | 3 30 50.3 | 8 | 0.59 | 0.46 | 0.89 | 0.53 | 0.25 | 0.64 | 8 | | | | |
| P 1223-074 | 12 | 26 | 16.33 | - 7 41 6.2 | | | | | < 0.06 | | | | | | | |
| P 1225-083 | 12 | 28 | 19.84 | - 8 38 17.2 | | | | | < 0.07 | | | | | | | |
| 3C 273 | 12 | 29 | 6.64 | 2 3 9.8 * | 18 | 1.94 | 1.01 | 4.69 | 4.28 | 2.94 | 6.00 | 20 | | | | |
| 3C 274 | 12 | 30 | 49.43 | 12 23 28.1 * | | 0.62 | | | 0.52 | | | | | | | |
| P 1228-113 | 12 | 30 | 55.56 | -11 39 10.0 * | | 0.28 | | | < 0.11 | | | | | | | |
| P 1237-10 | 12 | 39 | 43.06 | -10 23 28.7 * | | 0.08 | | | 0.54 | | | | | | | |
| DN-073 | 12 | 46 | 4.23 | - 7 30 46.5 * | | 0.56 | | | 0.29 | | | | | | | |
| P 1244-255 | 12 | 46 | 46.81 | -25 47 49.5 * | 4 | 0.48 | 0.43 | 0.56 | 1.01 | 0.85 | 1.16 | 4 | | | | |
| 3C 279 | 12 | 56 | 11.17 | - 5 47 21.5 | 8 | 3.97 | 1.82 | 4.88 | 2.12 | 1.30 | 3.59 | 8 | | | | |
| P 1302-102 | 13 | 5 | 32.62 | -10 33 13.1 * | | 0.42 | | | 0.35 | | | | | | | |
| B2 1308+32 | 13 | 10 | 28.74 | 32 20 41.9 * | 11 | 0.64 | 0.30 | 1.24 | 1.71 | 0.42 | 2.21 | 11 | | | | |
| P 1310-041 | 13 | 12 | 50.92 | - 4 24 50.2 * | | | | | 0.28 | | | | | | | |
| OP-322 | 13 | 16 | 8.00 | -33 38 58.8 * | 2 | 0.59 | 0.47 | 0.71 | 0.70 | 0.62 | 0.78 | 2 | | | | |
| P 1317+019 | 13 | 20 | 26.79 | 1 40 35.7 | | < 0.08 | | | < 0.13 | | | | | | | |
| P 1333-049 | 13 | 35 | 56.41 | - 5 11 40.3 * | | | | | 0.08 | | | | | | | |
| P 1333-082 | 13 | 36 | 7.63 | - 8 30 48.2 | | < 0.09 | | | < 0.13 | | | | | | | |
| DW 1339-12 | 13 | 37 | 39.75 | -12 57 24.0 * | 5 | 0.77 | 0.51 | 1.09 | 1.73 | 0.96 | 2.02 | 5 | | | | |
| P 1340-17 | 13 | 43 | 37.42 | -17 47 55.4 * | | 0.13 | | | < 0.12 | | | | | | | |
| QC 1342+662 | 13 | 43 | 45.96 | 66 2 25.6 * | 13 | 0.25 | 0.19 | 0.32 | 0.30 | 0.18 | 0.43 | 13 | | | | |
| QC 1342+663 | 13 | 44 | 8.67 | 66 6 11.4 * | 25 | 0.61 | 0.53 | 0.69 | 0.50 | 0.31 | 0.71 | 26 | | | | |
| P 1349-439 | 13 | 52 | 56.55 | -44 12 40.5 * | 2 | 0.44 | 0.38 | 0.50 | 0.96 | 0.80 | 1.12 | 2 | | | | |
| P 1351-018 | 13 | 54 | 6.98 | - 2 6 4.4 * | | | | | 0.22 | | | | | | | |
| P 1354-174 | 13 | 57 | 6.03 | -17 44 1.3 * | | 0.22 | | | 0.24 | | | | | | | |
| OP-192 | 13 | 57 | 11.20 | -15 27 28.3 * | | 0.93 | | | 1.31 | | | | | | | |
| P 1354+19 | 13 | 57 | 4.43 | 19 19 7.4 | 10 | 0.55 | 0.44 | 0.66 | 0.80 | 0.53 | 1.03 | 10 | | | | |
| P 1402-012 | 14 | 4 | 46.00 | - 1 30 23.6 * | | | | | < 0.11 | | | | | | | |
| DG 208 | 14 | 7 | 0.41 | 28 27 14.6 | | | | | 0.25 | | | | | | | |
| P 1406-076 | 14 | 8 | 56.43 | - 7 52 25.9 * | | 0.24 | | | 0.29 | | | | | | | |
| P 1406-230 | 14 | 9 | 10.30 | -23 16 48.8 | | < 0.08 | | | < 0.14 | | | | | | | |
| P 1412-096 | 14 | 15 | 20.66 | - 9 56 27.2 | | < 0.07 | | | < 0.14 | | | | | | | |
| QC 1418+54 | 14 | 19 | 46.59 | 54 23 14.7 * | 14 | 1.02 | 0.80 | 1.31 | 0.95 | 0.35 | 1.66 | 14 | | | | |
| P 1418-064 | 14 | 21 | 7.80 | - 6 43 56.2 * | | | | | < 0.07 | | | | | | | |
| P 1427+109 | 14 | 30 | 9.73 | 10 43 29.1 * | | | | | 0.41 | | | | | | | |
| DG-151 | 14 | 32 | 57.69 | -18 1 35.0 * | 3 | 0.62 | 0.58 | 0.64 | 0.27 | 0.22 | 0.29 | 3 | | | | |
| P 1430-155 | 14 | 33 | 21.48 | -15 48 44.9 * | | | | | < 0.07 | | | | | | | |
| P 1434+235 | 14 | 36 | 40.98 | 23 21 3.2 * | | 0.68 | | | 0.24 | | | | | | | |
| P 1443-162 | 14 | 45 | 53.37 | -16 29 1.5 * | | 0.36 | | | 0.28 | | | | | | | |
| P 1445-16 | 14 | 48 | 15.05 | -16 20 24.5 * | | 0.35 | | | 0.27 | | | | | | | |
| P 1452-167 | 14 | 55 | 3.13 | -17 0 9.0 | | < 0.08 | | | < 0.13 | | | | | | | |
| P 1455+24 | 14 | 57 | 43.45 | 24 35 7.4 | | < 0.14 | | | < 0.25 | | | | | | | |
| DR 103 | 15 | 4 | 24.98 | 10 29 39.2 * | 11 | 0.62 | 0.54 | 0.70 | 0.78 | 0.68 | 0.86 | 11 | | | | |
| P 1504-167 | 15 | 7 | 4.75 | -16 52 29.9 * | 9 | 1.74 | 1.33 | 2.19 | 1.14 | 0.35 | 1.99 | 10 | | | | |

Fig. 1 (contd)

| (1) SOURCE NAME | (2) RIGHT ASCENSION (J2000) HR MN SEC | (3) DECLINATION (J2000) DEG MN SEC | (4) NUMBER OF OBS (2.3 GHz) | (5) 2.3 GHz CORRELATED FLUX DENSITY (JY) AVERAGE | (6) CORRELATED FLUX DENSITY (JY) LOW | (7) HIGH (JY) | (8) NUMBER OF OBS (8.4 GHz) | (9) 8.4 GHz CORRELATED FLUX DENSITY (JY) AVERAGE | (10) CORRELATED FLUX DENSITY (JY) LOW | (11) HIGH (JY) |
|--------------------|---|---|--------------------------------------|---|---|---------------------|--------------------------------------|---|--|----------------------|
| P 1510-08 | 15 12 50.53 | -9 5 59.8 | 8 | 1.18 | 1.00 | 1.31 | 10 | 1.36 | 0.41 | 1.93 |
| P 1511-100 | 15 13 44.88 | -10 12 0.3 * | | 0.70 | | | | 0.81 | | |
| P 1511-210 | 15 13 56.97 | -21 14 57.5 * | 2 | 0.44 | 0.43 | 0.46 | 2 | < 0.11 | | |
| 1511+238 | 15 13 40.19 | 23 38 35.1 * | | 0.12 | | | | < 0.13 | | |
| P 1514-24 | 15 17 41.83 | -24 22 19.4 * | | 0.54 | | | | 0.49 | | |
| P 1519-273 | 15 22 37.73 | -27 30 11.0 * | 5 | 1.09 | 0.92 | 1.18 | 5 | 1.65 | 1.29 | 1.93 |
| 1529+337 | 15 31 26.31 | 35 34 0.8 | 2 | < 0.09 | | | 2 | < 0.15 | | |
| P 1532+01 | 15 34 52.53 | 1 31 3.1 * | | | | | | 0.76 | | |
| P 1535+004 | 15 38 15.98 | 0 19 5.0 * | | | | | | < 0.21 | | |
| DW 1548+05 | 15 50 35.29 | 5 27 10.2 * | | 1.12 | | | | 1.07 | | |
| P 1550-269 | 15 54 2.51 | -27 4 40.3 * | | 0.46 | | | | 0.17 | | |
| DW 1553+00 | 15 57 51.43 | -0 1 50.4 | 6 | 0.37 | 0.24 | 0.47 | 6 | 0.39 | 0.33 | 0.48 |
| P 1555-140 | 15 58 21.92 | -14 9 58.9 * | | 0.26 | 0.25 | 0.27 | | 0.08 | | |
| P 1556-245 | 15 59 41.42 | -24 42 38.7 * | 3 | | | | | 0.10 | | |
| P 1601-222 | 16 4 1.60 | -22 23 47.4 | | < 0.12 | | | | < 0.22 | | |
| P 1604-333 | 16 7 34.74 | -33 31 8.8 * | 8 | 1.17 | 0.88 | 1.44 | 8 | 0.38 | 0.38 | 1.29 |
| DA 406 | 16 13 41.06 | 34 12 47.9 | | < 0.11 | | | | < 0.13 | | |
| P 1614+26 | 16 16 38.32 | 26 47 1.5 | | 0.16 | 0.15 | 0.17 | 3 | 0.45 | 0.24 | 0.57 |
| P 1622-253 | 16 25 46.91 | -25 27 38.3 * | 2 | | | | | 0.85 | | |
| P 1622-29 | 16 26 6.02 | -29 51 26.9 * | | | | | | 0.07 | | |
| P 1625-141 | 16 28 45.88 | -14 15 30.2 * | 11 | 1.05 | 0.64 | 1.45 | 10 | 3.01 | 2.39 | 4.49 |
| GC 1633+38 | 16 35 15.50 | 38 8 4.4 * | 2 | 0.97 | 0.78 | 1.16 | | 0.18 | | |
| GC 1637+57 | 16 38 13.44 | 57 20 23.9 * | 13 | 0.75 | 0.68 | 0.80 | 13 | 1.29 | 0.55 | 2.41 |
| NRAD 512 | 16 40 29.63 | 39 46 46.0 | 2 | 0.40 | 0.34 | 0.46 | 2 | < 0.12 | | |
| OS-268 | 16 43 33.39 | -23 16 7.9 * | | | | | | 0.23 | | |
| 1640+234 | 16 42 40.40 | 25 23 7.7 * | 33 | 0.40 | 0.29 | 4.05 | 34 | 2.59 | 0.90 | 5.92 |
| 3C 345 | 16 42 58.84 | 39 48 36.5 * | | 1.42 | | | | 0.62 | | |
| GC 1642+69 | 16 42 7.86 | 68 56 39.7 * | | 0.46 | | | | < 0.12 | | |
| 1642+237 | 16 44 59.08 | 25 36 30.1 | | < 0.08 | | | | < 0.07 | | |
| P 1643-22 | 16 46 4.37 | -22 27 51.9 | | | | | | 0.35 | | |
| P 1647-296 | 16 50 39.52 | -29 43 46.6 * | | 0.72 | | | | 0.51 | | |
| OS 092 | 16 58 9.02 | 7 41 27.2 * | | 0.60 | | | | 0.25 | | |
| DW 1656+05 | 16 58 33.42 | 5 15 17.9 * | 7 | 0.48 | 0.35 | 0.58 | 9 | 1.28 | 0.94 | 1.66 |
| P 1657-261 | 17 0 53.14 | -26 10 51.6 * | | < 0.10 | | | | < 0.17 | | |
| P 1657-298 | 17 1 9.23 | -29 54 21.3 | | | | | | | | |
| OT-111 | 17 9 34.36 | -17 28 53.5 * | 10 | 0.37 | 0.26 | 0.50 | 11 | 0.53 | 0.37 | 0.70 |
| 1709+303 | 17 11 19.96 | 30 19 17.4 | | < 0.09 | | | | < 0.20 | | |
| 1719+35 | 17 21 9.36 | 35 42 11.2 | | < 0.09 | | | | < 0.20 | | |
| GC 1726+45 | 17 27 27.64 | 45 30 39.8 * | | 0.29 | | | | 0.25 | | |
| NRAD 530 | 17 33 2.70 | -13 4 49.5 | 16 | 2.16 | 1.47 | 3.02 | 16 | 2.42 | 1.43 | 2.90 |
| OT 465 | 17 39 57.13 | 47 37 58.4 | 12 | 0.40 | 0.27 | 0.52 | 12 | 0.56 | 0.31 | 1.07 |
| GC 1739+52 | 17 40 36.98 | 52 11 43.4 * | 2 | 1.89 | 1.61 | 2.17 | 2 | 0.54 | 0.41 | 0.67 |
| P 1741-038 | 17 43 58.85 | -3 50 4.6 | 11 | 1.03 | 0.80 | 1.23 | 11 | 1.10 | 0.60 | 1.68 |
| 1749+701 | 17 48 32.88 | 70 5 50.6 * | 31 | 0.40 | 0.18 | 0.72 | 30 | 0.31 | 0.07 | 0.90 |
| OT 081 | 17 51 32.81 | 9 39 0.5 * | 2 | 0.64 | 0.58 | 0.70 | 2 | 1.66 | 1.58 | 1.74 |

Fig. 1 (contd)

| (1) SOURCE NAME | (2) RIGHT ASCENSION (J2000) HR MN SEC | (3) DECLINATION (J2000) DEG MN SEC | (4) NUMBER OF OBS (2.3 GHz) | (5) 2.3 GHz CORRELATED FLUX DENSITY (JY) | | (7) HIGH (JY) | | (8) NUMBER OF OBS (8.4 GHz) | (9) 8.4 GHz CORRELATED FLUX DENSITY (JY) | | (11) HIGH (JY) | |
|--------------------|---|---|--------------------------------------|--|------|---------------------|-----|--------------------------------------|--|------|----------------------|--|
| | | | | AVERAGE | LOW | AVERAGE | LOW | | AVERAGE | LOW | | |
| 1803+78 | 18 0 45.67 | 78 28 3.9 | | 0.53 | 0.30 | 0.78 | | | 0.39 | | | |
| 3C 371 | 18 6 50.71 | 69 49 28.1 | 16 | 0.45 | | | | | 0.63 | 0.23 | 1.22 | |
| GC 1823+56 | 18 24 7.07 | 56 51 1.5 * | | 0.55 | | | | | 0.55 | | | |
| GC 1842+68 | 18 42 33.62 | 68 9 25.4 * | 2 | 0.65 | 0.64 | 0.67 | | 2 | 0.30 | 0.25 | 0.34 | |
| OV-213 | 19 11 9.79 | -20 6 57.0 * | 7 | 0.62 | 0.51 | 0.77 | | 7 | 1.04 | 0.60 | 1.40 | |
| 1909+269 | 19 11 35.08 | 26 58 13.7 * | | 0.22 | | | | | < 0.13 | | | |
| OV-235 | 19 23 32.21 | -21 4 33.5 * | | 0.89 | | | | | 0.86 | | | |
| OV-236 | 19 24 51.26 | -29 14 32.8 * | 10 | 2.17 | 1.75 | 2.58 | | 10 | 5.78 | 4.49 | 6.95 | |
| 1928+73 | 19 27 48.48 | 73 58 1.3 | 2 | 1.20 | 1.12 | 1.28 | | 2 | 1.08 | 0.81 | 1.35 | |
| P 1936-15 | 19 39 26.75 | -15 25 45.2 * | | 0.27 | | | | | 0.35 | | | |
| P 1942-313 | 19 45 59.36 | -31 11 38.0 * | | 0.12 | | | | | < 0.13 | | | |
| P 1946-23 | 19 49 24.10 | -23 27 9.4 | | < 0.15 | | | | | < 0.29 | | | |
| P 1946-200 | 19 49 53.15 | -19 57 13.3 | | < 0.15 | | | | | < 0.29 | | | |
| OV-198 | 20 0 57.08 | -17 48 57.7 | 5 | 0.32 | 0.28 | 0.34 | | 5 | 0.85 | 0.46 | 1.10 | |
| 2007+77 | 20 5 31.00 | 77 52 43.1 * | 2 | 0.45 | 0.42 | 0.49 | | | 0.24 | | | |
| P 2008-159 | 20 11 15.70 | -15 46 40.4 * | | 0.28 | | | | | 0.38 | | | |
| OW 538 | 20 23 55.84 | 54 27 35.9 * | 4 | 0.49 | 0.46 | 0.52 | | 4 | 0.37 | 0.31 | 0.46 | |
| P 2024-217 | 20 27 4.17 | -21 36 25.2 | | < 0.07 | | | | | < 0.13 | | | |
| 3C 418 | 20 38 37.10 | 51 19 13.6 | 4 | 0.52 | 0.35 | 0.66 | | 4 | 0.74 | 0.64 | 0.91 | |
| P 2037-253 | 20 40 8.76 | -25 7 46.6 * | | 0.40 | | | | | 0.17 | | | |
| GC 2047+09 | 20 49 45.87 | 10 3 14.4 * | | 0.43 | | | | | 0.27 | | | |
| P 2047+039 | 20 50 6.29 | 4 7 48.1 * | | 0.32 | | | | | < 0.10 | | | |
| 2107-109 | 21 10 0.97 | -10 20 57.6 * | | 0.40 | | | | | 0.16 | | | |
| P 2111-25 | 21 14 40.27 | -25 41 50.6 | | < 0.07 | | | | | < 0.13 | | | |
| 2112+283 | 21 14 58.30 | 28 32 57.6 | | < 0.10 | | | | | < 0.17 | | | |
| B2 2113+298 | 21 15 29.42 | 29 33 38.4 | 14 | 0.56 | 0.44 | 0.70 | | 14 | 0.66 | 0.35 | 1.20 | |
| 2116-113 | 21 19 40.17 | -11 6 23.0 | | < 0.14 | | | | | < 0.10 | | | |
| OX 036 | 21 23 44.49 | 5 35 22.6 * | | 0.65 | | | | | 1.46 | | | |
| 2121+299 | 21 23 44.46 | 30 12 36.3 | | < 0.10 | | | | | < 0.17 | | | |
| P 2124-12 | 21 27 30.49 | -11 51 20.2 | | < 0.14 | | | | | < 0.10 | | | |
| P 2126-185 | 21 29 21.41 | -18 21 22.8 * | | 0.28 | | | | | < 0.09 | | | |
| P 2128-12 | 21 31 35.29 | -12 7 5.1 * | | 0.50 | | | | | 0.77 | | | |
| P 2131-021 | 21 34 10.41 | -1 53 18.9 * | | 0.86 | | | | | 0.71 | | | |
| P 2134+004 | 21 36 38.58 | 0 41 54.1 | 15 | 1.12 | 0.38 | 2.07 | | 15 | 0.91 | 0.35 | 1.53 | |
| P 2140-048 | 21 42 36.91 | -4 37 43.4 * | | 0.25 | | | | | 0.19 | | | |
| OX-173 | 21 46 22.96 | -15 25 43.7 * | | 0.27 | | | | | 0.29 | | | |
| P 2145+06 | 21 48 5.95 | 6 57 30.9 * | 20 | 1.03 | 0.75 | 1.56 | | 20 | 2.33 | 1.58 | 2.90 | |
| P 2145-17 | 21 48 36.32 | -17 23 51.3 | | < 0.09 | | | | | < 0.12 | | | |
| 2146-133 | 21 49 28.41 | -13 4 23.2 | | < 0.14 | | | | | < 0.14 | | | |
| P 2149-306 | 21 51 55.55 | -30 27 54.4 * | | 0.92 | | | | | 0.37 | | | |
| OX 082 | 21 51 37.83 | 5 52 13.5 * | 12 | 0.52 | 0.44 | 0.63 | | 12 | 0.31 | 0.24 | 0.39 | |
| 2151-152 | 21 54 7.11 | -15 1 34.3 | | < 0.08 | | | | | < 0.12 | | | |
| P 2151-153 | 21 54 10.04 | -15 4 0.2 | | 0.06 | | | | | < 0.10 | | | |
| P 2153-204 | 21 56 35.20 | -20 12 18.7 | | < 0.08 | | | | | < 0.14 | | | |
| OX-192 | 21 58 5.36 | -15 0 54.9 * | 5 | 0.57 | 0.36 | 0.78 | | 5 | 0.54 | 0.19 | 0.81 | |

Fig. 1 (contd)

| (1) SOURCE NAME | (2) RIGHT ASCENSION (J2000) HR MN SEC | | (3) DECLINATION (J2000) DEG MN SEC | | (4) NUMBER OF OBS (2.3 GHz) | (5) 2.3 GHz CORRELATED FLUX DENSITY AVERAGE (Jy) | | | (6) LOW (Jy) | | (7) HIGH (Jy) | | (8) NUMBER OF OBS (8.4 GHz) | (9) 8.4 GHz CORRELATED FLUX DENSITY AVERAGE (Jy) | | | (10) LOW (Jy) | | (11) HIGH (Jy) | |
|--------------------|---|----|---|-----|--------------------------------------|---|--------|--------|--------------------|--------|---------------------|--------|--------------------------------------|---|--------|--------|---------------------|--------|----------------------|--|
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 2156-203 | 21 | 58 | 50.12 | -20 | 5 | 25.7 | < 0.08 | < 0.08 | < 0.08 | < 0.08 | < 0.08 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | |
| 2156-043 | 21 | 59 | 23.31 | -4 | 9 | 15.3 | < 0.08 | < 0.08 | < 0.08 | < 0.08 | < 0.08 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | |
| P 2157-200 | 22 | 0 | 7.78 | -19 | 45 | 58.8 | < 0.08 | < 0.08 | < 0.08 | < 0.08 | < 0.08 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | |
| 2158-167 | 22 | 0 | 54.41 | -16 | 32 | 33.0 | < 0.09 | < 0.09 | < 0.09 | < 0.09 | < 0.09 | < 0.13 | < 0.13 | < 0.13 | < 0.13 | < 0.13 | < 0.13 | < 0.13 | < 0.13 | |
| 2158-177 | 22 | 1 | 39.20 | -17 | 32 | 59.4 | < 0.09 | < 0.09 | < 0.09 | < 0.09 | < 0.09 | < 0.13 | < 0.13 | < 0.13 | < 0.13 | < 0.13 | < 0.13 | < 0.13 | < 0.13 | |
| 2159-205 | 22 | 2 | 17.13 | -20 | 17 | 33.1 | < 0.09 | < 0.09 | < 0.09 | < 0.09 | < 0.09 | < 0.13 | < 0.13 | < 0.13 | < 0.13 | < 0.13 | < 0.13 | < 0.13 | < 0.13 | |
| VR0 42.22.01 | 22 | 2 | 43.32 | 42 | 16 | 40.0 | 1.51 | 0.32 | 0.32 | 2.58 | 2.58 | 20 | 20 | 2.38 | 0.23 | 0.23 | 0.23 | 4.24 | 4.24 | |
| GC 2201+17 | 22 | 3 | 26.90 | 17 | 25 | 48.1 | 0.54 | 0.32 | 0.32 | 2.58 | 2.58 | 20 | 20 | 0.32 | 0.23 | 0.23 | 0.23 | 4.24 | 4.24 | |
| P 2203-18 | 22 | 6 | 10.39 | -18 | 35 | 38.7 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | < 0.09 | < 0.09 | < 0.09 | < 0.09 | < 0.09 | < 0.09 | < 0.09 | < 0.09 | |
| P 2208-137 | 22 | 11 | 24.13 | -13 | 28 | 10.4 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | |
| P 2209+236 | 22 | 12 | 5.94 | 23 | 55 | 41.0 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 6 | 6 | 0.67 | 1.23 | 1.23 | 1.23 | 2.91 | 2.91 | |
| P 2216-03 | 22 | 18 | 52.07 | -3 | 35 | 37.4 | 1.33 | 1.11 | 1.11 | 1.69 | 1.69 | 2 | 2 | 2.08 | 0.10 | 0.10 | 0.10 | 0.37 | 0.37 | |
| P 2220-163 | 22 | 23 | 41.16 | -16 | 7 | 5.1 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 2 | 2 | 0.23 | 0.10 | 0.10 | 0.10 | 0.37 | 0.37 | |
| P 2223-114 | 22 | 25 | 43.71 | -11 | 13 | 40.2 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 10 | 10 | 3.11 | 1.81 | 1.81 | 1.81 | 4.22 | 4.22 | |
| 3C 446 | 22 | 25 | 47.23 | -4 | 57 | 1.0 | 0.61 | 0.31 | 0.31 | 0.84 | 0.84 | 10 | 10 | 3.11 | 1.81 | 1.81 | 1.81 | 4.22 | 4.22 | |
| P 2227-08 | 22 | 29 | 40.01 | -8 | 32 | 53.4 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 | 2 | 2 | 0.75 | 0.37 | 0.37 | 0.37 | 0.38 | 0.38 | |
| 2229+69 | 22 | 30 | 36.45 | 69 | 46 | 28.2 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 2 | 2 | 0.38 | 0.37 | 0.37 | 0.37 | 0.38 | 0.38 | |
| P 2229-17 | 22 | 32 | 22.56 | -16 | 59 | 2.1 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | |
| P 2230-149 | 22 | 32 | 42.45 | -14 | 42 | 27.8 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | 19 | 19 | 1.25 | 0.89 | 0.89 | 0.89 | 1.94 | 1.94 | |
| CTA 102 | 22 | 32 | 36.41 | 11 | 43 | 50.9 | 1.05 | 0.19 | 0.19 | 1.69 | 1.69 | 19 | 19 | 1.25 | 0.89 | 0.89 | 0.89 | 1.94 | 1.94 | |
| P 2233-148 | 22 | 36 | 34.11 | -14 | 33 | 22.7 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 2 | 2 | < 0.12 | 0.38 | 0.38 | 0.38 | 1.32 | 1.32 | |
| GC 2234+28 | 22 | 36 | 22.47 | 28 | 28 | 57.4 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 16 | 16 | 0.86 | 0.38 | 0.38 | 0.38 | 1.32 | 1.32 | |
| 0Y-172.6 | 22 | 46 | 18.23 | -12 | 6 | 51.3 | 0.78 | 0.28 | 0.28 | 1.26 | 1.26 | 12 | 12 | 1.23 | 0.88 | 0.88 | 0.88 | 1.40 | 1.40 | |
| P 2245-059 | 22 | 48 | 0.52 | -5 | 41 | 10.6 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 6 | 6 | < 0.07 | 0.28 | 0.28 | 0.28 | 0.50 | 0.50 | |
| P 2245-328 | 22 | 48 | 38.68 | -32 | 35 | 52.2 | 0.94 | 0.75 | 0.75 | 1.09 | 1.09 | 6 | 6 | 0.38 | 0.28 | 0.28 | 0.28 | 0.50 | 0.50 | |
| GC 2246+20 | 22 | 49 | 0.47 | 21 | 7 | 4.4 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 24 | 24 | 0.15 | 0.12 | 0.12 | 0.12 | 2.47 | 2.47 | |
| 3C 454.3 | 22 | 53 | 57.75 | 16 | 8 | 53.4 | 5.65 | 3.35 | 3.35 | 6.96 | 6.96 | 24 | 24 | 0.77 | 0.12 | 0.12 | 0.12 | 2.47 | 2.47 | |
| P 2251+006 | 22 | 54 | 7.21 | 0 | 55 | 11.4 | < 0.09 | < 0.09 | < 0.09 | < 0.09 | < 0.09 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | |
| GC 2251+24 | 22 | 54 | 9.34 | 24 | 45 | 23.6 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | < 0.29 | < 0.29 | < 0.29 | < 0.29 | < 0.29 | < 0.29 | < 0.29 | < 0.29 | |
| P 2252-089 | 22 | 55 | 4.28 | -8 | 44 | 4.8 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 5 | 5 | 0.48 | 0.28 | 0.28 | 0.28 | 0.78 | 0.78 | |
| GC 2253+41 | 22 | 55 | 36.72 | 42 | 2 | 52.9 | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 | 5 | 5 | 0.48 | 0.28 | 0.28 | 0.28 | 0.78 | 0.78 | |
| P 2254+024 | 22 | 57 | 17.57 | 2 | 43 | 17.2 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 24 | 24 | 0.41 | 0.28 | 0.28 | 0.28 | 0.78 | 0.78 | |
| GC 2254+07 | 22 | 57 | 17.32 | 7 | 43 | 11.7 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 16 | 16 | 0.30 | 0.12 | 0.12 | 0.12 | 2.47 | 2.47 | |
| P 2255-282 | 22 | 58 | 5.96 | -27 | 58 | 21.4 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 6 | 6 | 0.47 | 0.28 | 0.28 | 0.28 | 0.78 | 0.78 | |
| P 2303-052 | 23 | 6 | 15.32 | -4 | 59 | 48.6 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 5 | 5 | 0.18 | 0.28 | 0.28 | 0.28 | 0.78 | 0.78 | |
| P 2312-319 | 23 | 14 | 48.48 | -31 | 38 | 39.6 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 16 | 16 | 0.34 | 0.26 | 0.26 | 0.26 | 0.50 | 0.50 | |
| P 2314-116 | 23 | 17 | 22.31 | -11 | 22 | 23.0 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 16 | 16 | < 0.07 | 0.26 | 0.26 | 0.26 | 0.50 | 0.50 | |
| GC 2318+04 | 23 | 20 | 44.88 | 5 | 13 | 49.4 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 16 | 16 | 1.27 | 0.26 | 0.26 | 0.26 | 0.50 | 0.50 | |
| P 2318-087 | 23 | 21 | 18.63 | -8 | 27 | 27.1 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 16 | 16 | 0.25 | 0.26 | 0.26 | 0.26 | 0.50 | 0.50 | |
| P 2320-021 | 23 | 23 | 4.51 | -1 | 50 | 46.7 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 16 | 16 | 0.25 | 0.26 | 0.26 | 0.26 | 0.50 | 0.50 | |
| P 2320-035 | 23 | 23 | 31.81 | -3 | 17 | 3.3 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 16 | 16 | 0.40 | 0.26 | 0.26 | 0.26 | 0.50 | 0.50 | |
| P 2325-150 | 23 | 27 | 47.96 | -14 | 47 | 55.8 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 16 | 16 | 0.26 | 0.26 | 0.26 | 0.26 | 0.50 | 0.50 | |
| P 2332-049 | 23 | 34 | 56.92 | -4 | 39 | 39.4 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 16 | 16 | < 0.07 | 0.26 | 0.26 | 0.26 | 0.50 | 0.50 | |
| P 2332-017 | 23 | 35 | 20.41 | -1 | 31 | 9.7 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 16 | 16 | 0.15 | 0.26 | 0.26 | 0.26 | 0.50 | 0.50 | |
| P 2335-027 | 23 | 37 | 57.17 | -2 | 30 | 55.5 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 16 | 16 | 0.30 | 0.26 | 0.26 | 0.26 | 0.50 | 0.50 | |

Fig. 1 (contd)

| (1) SOURCE NAME | (2) RIGHT ASCENSION (J2000) HR MN SEC | (3) DECLINATION (J2000) DEG MN SEC | (4) NUMBER OF OBS (2.3 GHz) | (5) 2.3 GHz CORRELATED FLUX DENSITY | | | (6) 8.4 GHz CORRELATED FLUX DENSITY | | | (8) NUMBER OF OBS (8.4 GHz) | (9) 8.4 GHz CORRELATED FLUX DENSITY | | (11) HIGH (JY) |
|--------------------|---|---|--------------------------------------|-------------------------------------|-------------|--------------|-------------------------------------|-------------|--------------|--------------------------------------|-------------------------------------|-------------|----------------------|
| | | | | AVERAGE (JY) | LOW (JY) | HIGH (JY) | AVERAGE (JY) | LOW (JY) | HIGH (JY) | | AVERAGE (JY) | LOW (JY) | |
| P 2340-036 | 23 42 56.60 | - 3 22 25.9 * | 3 | 0.09 | 2.18 | 2.32 | < 0.09 | 0.66 | 1.11 | 3 | < 0.09 | 0.66 | 1.11 |
| P 2345-16 | 23 48 2.61 | -16 31 12.0 | | 2.25 | | | | | | | | | |
| P 2349-01 | 23 51 56.19 | - 1 9 14.1 * | | < 0.09 | | | | | | | | | |
| 2349+280 | 23 51 57.66 | 28 20 30.2 | | 0.34 | | | | | | | | | |
| P 2351-006 | 23 54 9.17 | - 0 19 47.7 * | 2 | 0.60 | 0.98 | 1.04 | 0.33 | 0.23 | 0.51 | 2 | 0.33 | 0.23 | 0.51 |
| 07-187 | 23 54 30.03 | -15 13 9.1 * | | 0.09 | | | | | | | | | |
| P 2352-04 | 23 54 51.72 | - 4 5 3.5 * | | 0.22 | | | | | | | | | |
| DA 611 | 23 55 9.46 | 49 50 8.1 * | | 1.01 | | | | | | | | | |
| P 2354-11 | 23 57 29.76 | -11 25 16.4 * | 3 | 0.53 | 0.50 | 0.55 | 0.45 | 0.36 | 0.23 | 3 | 0.45 | 0.36 | 0.23 |
| P 2355-106 | 23 58 10.91 | -10 20 8.8 * | | < 0.16 | | | | | | | | | |
| P 2357+00 | 23 59 58.57 | 0 42 18.1 | | | | | | | | | | | |

Fig. 1 (contd)

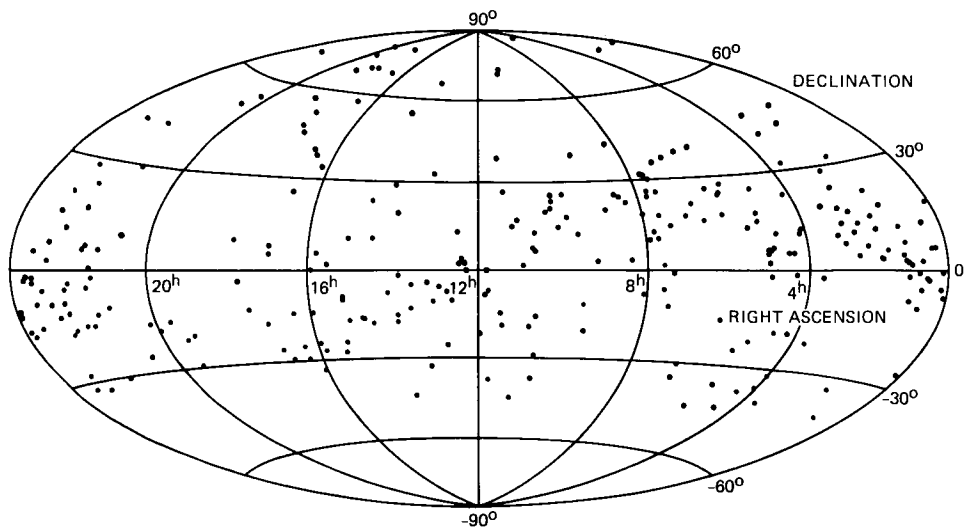


Fig. 2. Sky plot of 278 detected objects at 8.4 GHz

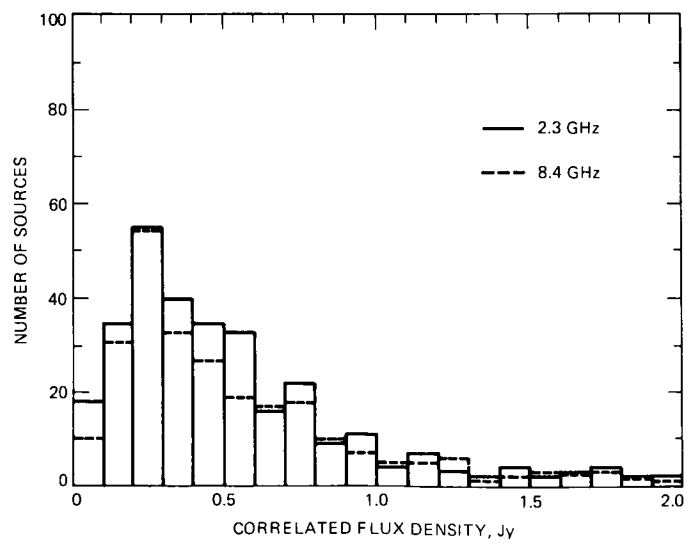


Fig. 3. Correlated flux density histogram for 2.3 GHz and 8.4 GHz observations