| | X-ray Source Parameters | | | | | | Identification | | POSS | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ID | $\alpha_{(2000)}$ | $\delta_{(2000)}$ | Rate | Error | HR1 | HR2 | Name | Type | $m$ | O−E | dist | B | log |
| 30 | 00:10:29.3 | +20:47:38 | 0.035 | 0.013 | 1.00 | 0.28 | 87GB | | 17.86 | 0.56 | 12.8 | LX | 0.1 |
| 52 | 01:15:20.3 | +16:48:19 | 0.017 | 0.007 | 1.00 | 1.00 | new ID | K0III | 12.91 | 0.96 | 38.8 | LX | −2.2 |
| 40 | 02:25:05.4 | +18:46:55 | 0.177 | 0.029 | 1.00 | 0.50 | 87GB | | 18.67 | 1.41 | 12.2 | | 1.1 |
| 74 | 03:17:46.2 | +10:17:35 | 0.011 | 0.006 | 1.00 | 0.34 | | | 17.71 | 1.68 | 23.6 | L | −0.5 |
| 69 | 03:20:38.0 | +11:24:55 | 0.055 | 0.011 | 1.00 | 0.72 | RadioS(*) | | 19.41 | >1.15 | 3.5 | L | 0.5 |
| 63 | 03:22:02.5 | +12:28:45 | 0.015 | 0.007 | −1.00 | * | | | O20.37 | <0.37 | 27.9 | L | 0.7 |
| 73 | 03:22:44.3 | +10:37:27 | 0.015 | 0.006 | 0.02 | −1.00 | SIMBAD(+) | M4V | V14.6 | | 10.2 | L | −1.6 |
| 64 | 03:23:04.0 | +12:24:40 | 0.019 | 0.008 | −1.00 | * | | | O20.17 | <0.17 | 22.2 | L | 0.7 |
| 66 | 03:23:22.2 | +11:41:16 | 0.123 | 0.018 | −0.22 | 0.26 | SIMBAD(+) | M4V | V12.2 | | 16.6 | L | −2.5 |
| 71 | 03:23:30.6 | +10:48:00 | 0.014 | 0.006 | 1.00 | −0.32 | (*) | K3 | 13.9 | 2.13 | 6.2 | L | −1.9 |
| 62 | 03:24:10.0 | +12:37:41 | 0.054 | 0.012 | 0.91 | −0.08 | SAO 93416 | K0III-IV | V 6.0 | | 1.2 | L | −4.5 |
| 61 | 03:24:38.4 | +12:53:39 | 0.017 | 0.007 | 1.00 | 0.48 | | | 18.17 | 1.15 | 1.7 | L | −0.1 |
| 68 | 03:25:25.2 | +11:27:53 | 0.013 | 0.006 | 1.00 | 0.64 | | | 17.52 | 1.88 | 15.0 | L | −0.5 |
| 72 | 03:25:48.2 | +10:47:02 | 0.024 | 0.008 | 1.00 | 0.52 | RadioS (*) | RadioS | 17.85 | 2.08 | 26.0 | L | −0.1 |
| 67 | 03:26:20.8 | +11:31:00 | 0.101 | 0.018 | −0.06 | −0.01 | (*) | M4V | 14.66 | 1.56 | 9.7 | L | −0.8 |
| 65 | 03:26:46.1 | +12:10:11 | 0.015 | 0.007 | 0.91 | 0.62 | z=0.21 (*) | AGN | 18.88 | 1.63 | 11.4 | L | 0.1 |
| 70 | 03:28:02.2 | +11:14:34 | 0.065 | 0.016 | −0.35 | 0.15 | binary (*) | M4V:e | 15.07 | 2.34 | 11.0 | L | −0.8 |
| 22 | 03:28:58.7 | +31:14:18 | 0.043 | 0.011 | 1.00 | 0.02 | BD+30 547 | K0 | V10.3 | | 19.9 | L | −2.9 |
| 21 | 03:29:14.3 | +31:22:47 | 0.018 | 0.008 | 1.00 | 0.60 | | | 18.40 | >2.99 | 16.1 | L | 0.0 |
| 77 | 04:01:10.9 | +00:04:11 | 0.022 | 0.010 | 1.00 | 0.39 | z=0.47 (*) | AGN | 17.71 | 0.65 | 13.0 | L | −0.2 |
| 76 | 04:02:42.0 | +01:59:54 | 0.032 | 0.011 | 1.00 | 0.48 | z=0.14 (*) | AGN | 16.83 | 1.70 | 12.7 | L | −0.4 |
| 75 | 04:03:14.2 | +02:15:21 | 0.013 | 0.007 | 1.00 | 1.00 | | | 18.09 | >3.32 | 24.2 | L | −0.3 |
| 33 | 04:21:45.7 | +19:34:01 | 0.017 | 0.007 | 1.00 | 0.04 | (*) | M1.5V:e | 14.63 | 3.98 | 37.1 | L | −1.5 |
| 34 | 04:22:02.6 | +19:32:20 | 0.037 | 0.010 | 1.00 | 0.47 | T-Tauri | | | | 48.0 | | >1.3 |
| 37 | 04:22:08.4 | +19:15:17 | 0.116 | 0.019 | −0.25 | 0.20 | EinsteinS | M4.5V:e | V12.9 | | 6.3 | L | −1.4 |
| 31 | 04:22:18.3 | +19:50:47 | 0.134 | 0.019 | 1.00 | 0.51 | MS-Src† | QSO | | | 18.8 | L | |
| 32 | 04:23:23.1 | +19:39:40 | 0.019 | 0.008 | 0.01 | −1.00 | BD+19 708 | K2V | V 9.4 | | 11.3 | L | −3.6 |
| 42 | 04:27:58.5 | +18:45:30 | 0.020 | 0.008 | −1.00 | * | HG 7-224 | lm | V14.3 | | 6.8 | L | −1.6 |
| 44 | 04:27:59.4 | +18:29:50 | 0.027 | 0.009 | −0.15 | −1.00 | BD+18 639 | K2 | V10.1 | | 15.8 | L | −3.2 |
| 43 | 04:29:00.8 | +18:40:01 | 0.032 | 0.010 | 0.58 | 0.14 | HG 7-237 | lm | V13.2 | | 25.3 | L | −1.8 |
| 48 | 04:30:04.3 | +18:13:42 | 0.113 | 0.018 | 0.96 | 0.13 | HD 285846‡ | G5V:e | V10.6 | | 9.4 | L | −2.3 |
| 82 | 04:33:24.1 | −14:22:54 | 0.027 | 0.013 | 1.00 | −0.18 | | | J15.79 | | 6.5 | L | −0.9 |
| 81 | 04:34:26.5 | −13:34:18 | 0.043 | 0.016 | 1.00 | 0.45 | 1E0432.1-1341 | GV | V 9 | | 5.5 | L | −3.4 |
| 83 | 04:35:19.7 | −14:54:47 | 0.089 | 0.022 | 0.05 | 0.35 | (*) | K6-7 | J14.75 | | 13.2 | L | −0.8 |
| 80 | 05:20:30.0 | −05:48:18 | 0.037 | 0.012 | 1.00 | −0.01 | EM* StHA 39 | | V13.5 | | 15.0 | L | −1.7 |
| 8 | 09:29:49.2 | +65:22:53 | 0.014 | 0.006 | 0.48 | −1.00 | RadioS (*) | | 16.19 | 1.55 | 0.0 | LX | −1.0 |
| 5 | 09:32:15.9 | +70:06:35 | 0.010 | 0.006 | 1.00 | 1.00 | | | 20.10 | <0.10 | 27.9 | LX | 0.4 |
| 6 | 09:34:17.4 | +66:21:50 | 0.020 | 0.009 | −0.38 | * | | K0III | 13.07 | 1.79 | 30.7 | LX | −2.1 |
| 7 | 09:37:27.2 | +65:38:28 | 0.047 | 0.011 | 1.00 | −0.08 | z=0.29,RS (*) | AGN | 16.52 | 0.98 | 5.4 | LX | −0.3 |
| 90 | 13:58:17.2 | −39:45:38 | 0.019 | $_{1}$0.012 | * | * | | | J16.75 | | 7.6 | | −0.7 |
| 87 | 15:19:18.4 | −29:43:18 | 0.045 | 0.013 | 0.90 | 0.60 | (*) | M0V | J13.83 | | 6.0 | LX | −1.4 |
| 84 | 15:37:06.5 | −24:47:35 | 0.041 | 0.011 | 1.00 | 0.77 | | | J16.78 | | 5.8 | LX | −0.3 |
| 86 | 15:41:07.1 | −26:56:32 | 0.035 | 0.013 | 0.45 | −0.09 | (*) | K3 | J12.18 | | 6.7 | LX | −2.2 |
| 85 | 15:42:08.5 | −26:29:17 | 0.028 | 0.010 | 0.99 | −0.13 | | | J17.26 | | 17.3 | LX | −0.3 |
| 78 | 15:51:00.6 | −01:41:31 | 0.019 | 0.008 | 1.00 | −0.28 | | | J21.68 | | | LX | 1.3 |
| 79 | 15:53:22.3 | −03:01:51 | 0.127 | 0.019 | −0.08 | 0.07 | SAO 140822 | F5 | V 7.4 | | 16.0 | LX | −3.6 |
| 16 | 16:44:19.3 | +59:57:43 | 0.022 | 0.005 | 0.18 | 0.59 | SAO 17203 | G5 | V 8.1 | | 12.9 | LX | −4.0 |
| 15 | 16:44:35.2 | +59:58:43 | 0.011 | 0.003 | 1.00 | 0.24 | | | 17.89 | 4.25 | 8.0 | LX | −0.4 |
| 17 | 16:45:47.8 | +59:57:36 | 0.019 | 0.004 | 1.00 | 0.09 | z=0.23 (*) | AGN | 17.31 | 0.70 | 13.1 | LX | −1.1 |
| 13 | 16:55:33.5 | +61:39:47 | 0.006 | 0.002 | 1.00 | 0.10 | | | 15.68 | 1.77 | 24.2 | LX | −1.6 |
| 14 | 16:58:14.4 | +60:56:15 | 0.011 | 0.004 | −0.25 | 0.28 | | | 16.44 | 3.01 | 14.6 | LX | −1.0 |
| 12 | 16:58:32.4 | +61:59:46 | 0.007 | 0.003 | 0.76 | 0.07 | RadioS (*) | | 14.64 | 2.44 | 22.4 | LX | −1.9 |
| 9 | 16:59:59.2 | +62:14:45 | 0.009 | 0.003 | 0.37 | 0.51 | | | 16.95 | 1.15 | 8.4 | LX | −0.9 |
| 11 | 17:00:00.1 | +62:02:18 | 0.014 | 0.003 | 0.92 | 0.18 | | | 15.67 | 0.57 | 9.3 | LX | −1.2 |
| 10 | 17:01:12.1 | +62:06:31 | 0.043 | 0.006 | 0.12 | 0.28 | z=0.32 (*) | AGN | 15.98 | 1.51 | 23.1 | LX | −0.6 |
| 89 | 19:15:11.1 | −36:47:17 | 0.020 | 0.010 | * | * | | | J14.00 | | 16.0 | LX | −1.7 |
| 88 | 19:19:31.3 | −36:39:25 | 0.025 | 0.012 | −1.00 | * | SAO 211169 | F7V | V 7.2 | | 5.3 | LX | −4.4 |
| 4 | 19:23:26.0 | +70:07:48 | 0.022 | 0.005 | −0.22 | 0.22 | (*) | K6-7 | 7.75 | 3.04 | 21.0 | LX | −4.2 |
| 3 | 19:24:05.7 | +70:19:56 | 0.008 | 0.003 | 0.91 | −0.18 | (*) | AGN | 17.68 | 3.98 | 20.5 | LX | −0.7 |
| 2 | 20:45:22.1 | +81:04:37 | 0.039 | 0.008 | −0.38 | 0.42 | SAO 3462 | G5 | V 9.4 | | 4.3 | LX | −3.3 |
| 1 | 21:59:11.8 | +82:26:22 | 0.011 | 0.004 | 1.00 | 1.00 | | | 19.19 | 2.23 | 25.4 | LX | 0.1 |
| 26 | 22:59:26.9 | +24:40:54 | 0.023 | 0.009 | 0.38 | −0.29 | (*) | K3 | 12.79 | 1.88 | 13.7 | LX | −2.2 |
| 25 | 23:00:03.4 | +24:44:51 | 0.013 | 0.006 | 1.00 | 1.00 | 87GB | RadioS | J16.89 | 1.51 | 20.0 | LX | |
| 27 | 23:02:10.9 | +24:17:35 | 0.012 | 0.006 | 1.00 | −0.08 | RadioS (*) | RadioS | 17.36 | 0.11 | 18.2 | LX | −0.6 |
| 24 | 23:02:47.5 | +24:53:14 | 0.018 | 0.008 | −1.00 | * | (*) | M1.5V:e | 17.99 | 2.68 | 8.7 | LX | −0.2 |
| 23 | 23:03:56.6 | +25:00:43 | 0.017 | 0.007 | 1.00 | 0.41 | | | 17.84 | 1.11 | 12.3 | LX | −0.3 |
| 60 | 23:04:26.3 | +12:58:40 | 0.015 | 0.007 | 1.00 | 0.00 | | | 18.18 | 0.71 | 7.6 | LX | −0.2 |
| 57 | 23:04:51.9 | +14:12:41 | 0.014 | 0.007 | 1.00 | 0.14 | | | O21.68 | <1.68 | 28.0 | LX | 1.2 |
| 58 | 23:04:57.8 | +13:43:28 | 0.015 | 0.007 | 1.00 | −0.18 | | | 17.63 | 2.11 | 21.0 | LX | −0.4 |
| 59 | 23:05:19.3 | +13:15:37 | 0.015 | 0.007 | 1.00 | 0.40 | | | 17.80 | 2.63 | 19.8 | LX | −0.3 |
| 55 | 23:05:31.1 | +15:14:50 | 0.011 | 0.006 | 0.53 | 0.61 | z=0.07 (*) | AGN | 18.89 | 1.29 | 6.4 | LX | 0.0 |
| 56 | 23:05:58.5 | +14:13:25 | 0.017 | 0.007 | 1.00 | −0.09 | RadioS (*) | | 16.72 | 1.78 | 14.8 | LX | −0.7 |
| 38 | 23:07:47.0 | +19:02:46 | 0.015 | 0.007 | 1.00 | 0.56 | | | 16.23 | 1.54 | 30.5 | LX | −1.0 |
| 39 | 23:07:47.1 | +19:01:17 | 0.036 | 0.011 | 1.00 | −0.06 | [HB89] 2305+187 | QSO | 15.80 | 1.01 | 21.4 | L | −0.8 |
| 35 | 23:08:12.3 | +19:30:09 | 0.021 | 0.008 | 1.00 | 0.23 | | | 18.34 | 1.11 | 25.7 | L | 0.0 |
| 53 | 23:08:28.1 | +15:55:46 | 0.019 | 0.008 | 0.03 | −0.08 | | | 19.86 | 1.75 | 2.5 | LX | 0.6 |
| 51 | 23:08:41.6 | +17:49:02 | 0.012 | 0.006 | 1.00 | −1.00 | | | 15.79 | 1.91 | 28.5 | LX | −1.2 |
| 54 | 23:08:42.8 | +15:32:51 | 0.045 | 0.012 | 0.21 | −0.64 | HD 218539 | G0 | V 9.7 | | 4.5 | LX | −3.1 |
| 47 | 23:09:01.5 | +18:20:21 | 0.008 | 0.005 | 1.00 | 1.00 | BD+17 4873 | G5 | V 9.2 | | | LX | −4.0 |
| 28 | 23:09:01.8 | +23:31:35 | 0.027 | 0.009 | 1.00 | 0.53 | | | 18.74 | 1.11 | 6.8 | LX | 0.3 |
| 46 | 23:09:07.4 | +18:25:20 | 0.030 | 0.011 | −0.03 | 0.24 | HD 218602 | G5 | 16.35 | 1.51 | 14.9 | X | −0.6 |
| 29 | 23:09:44.7 | +22:34:18 | 0.019 | 0.007 | 1.00 | 0.47 | | | O21.89 | <1.89 | 17.3 | LX | 1.4 |
| 49 | 23:10:59.8 | +18:08:29 | 0.032 | 0.010 | −1.00 | * | (*) | DC WD | 18.00 | −0.55 | 22.0 | LX | 0.1 |
| 45 | 23:11:02.7 | +18:28:20 | 0.012 | 0.006 | 0.98 | 1.00 | | | | | | LX | >0.8 |
| 50 | 23:12:31.2 | +18:06:22 | 0.010 | 0.005 | 1.00 | 1.00 | | | 18.42 | 1.96 | 24.3 | LX | −0.3 |
| 36 | 23:12:36.6 | +19:23:03 | 0.025 | 0.009 | 0.51 | 0.20 | binary (*) | K3-5 | | | | LX | |
| 19 | 23:25:14.6 | +33:14:12 | 0.021 | 0.007 | 0.18 | 0.13 | (*) | K3 | 9.36 | 1.94 | 7.8 | LX | −3.6 |
| 20 | 23:25:25.8 | +33:12:44 | 0.016 | 0.006 | −1.00 | * | (*) | K3 | 10.78 | 2.43 | 32.5 | LX | −3.1 |
| 18 | 23:25:57.4 | +33:17:19 | 0.013 | 0.005 | 1.00 | 0.48 | | | 18.34 | >2.94 | 8.9 | LX | −0.2 |

**Table 2:** Summary of the identification program of all 89 sources found within the lowest contours of the MBM cloud maps. Columns are: **ID**: Internal reference number; X-ray source position in equinox 2000.0; **Rate**: source count rate in cts $s^{-1}$; **Error**: error in count rate in cts $s^{-1}$; **HR1, HR2**: hardness ratios (*: source was not detected when data were split into two spectral channels); **Name**: catalog name of object; **Type**: Spectral Type; $m$: visual magnitude of counterpart; **O-E**: color index from APM scans; **dist.**: separation between X-ray source and proposed counterpart; **B**: bands in which the source has been observed at the VLA; **log**: logarithm of X-ray to optical flux ratio.
† not detected in snapshot; ‡ in visual binary with M4V. (*): new Identification; (+) new classification.