

PROGRESS OF THE SURVEY AT 2.2 μm ON SOUTHERN
INFRARED SOURCES NEAR THE GALACTIC PLANE

N. Epchtein

Observatoire de Meudon
France

Th. Le Bertre

European Southern Observatory (ESO), La Silla
Chile

O.T. Matsuura, J.R.D. Lépine, E. Picazzio, P. Marques dos Santos and P. Boscolo
Instituto Astronômico e Geofísico, USP, Brasil

ABSTRACT. A survey of infrared sources with declination $\delta < 35^\circ$ is being carried out on a belt $\pm 5^\circ$ wide along the Galactic Plane since mid 1982 in the K band with a 60 cm telescope at A. de Moraes Observatory in Valinhos, State of São Paulo. The limiting magnitude is $K \approx 4.5$ and the beam width is 3.5.

Most of the results obtained before 1984 were reported to the 1983 and 1984 Annual Meetings of the Brazilian Astronomical Society and to the III Regional Latin-American Meeting of the IAU in Buenos Aires (1983). 671 sources were detected in 1984 from May 9th until July 12th summing 1659 detected sources. The following informations are included in the listing of the sources: equatorial coordinates for 1950.0 epoch, estimate of K magnitude, date and a remark about whether counterpart could be seen through the finder (visual magnitude ≤ 11).

Sources selected from the listing have been observed with the ESO 1 m telescope to improve their positions (uncertainty $\approx 10''$) and to obtain photometri measurements in J,H,K,L and M bands. 221 sources were observed during the first session on September 1983. After the second session on September 1984 the total of 350 observed sources was reached. The survey catalogue will soon appear in another journal.

In 1985 the survey coverage will be furthered and the I,H and K photometry will be undertaken also at A. de Moraes Observatory.

Key words: INFRARED — CATALOGUE — GALACTIC PLANE

P. Boscolo, J.R.D. Lépine, O.T. Matssura, P. Marques dos Santos and E. Picazzio: Instituto Astronômico e Geofísico, Universidade de Sao Paulo, C.P. 30627, São Paulo SP, 01051 Brasil.

N. Epchtein: Observatoire de Meudon, 5 Place Jules Janssen, 92195 Meudon Principal Cedex, France.

Th. Le Bertre: European Southern Observatory, ESO La Silla, Casilla de Correo 19001, Santiago 19, Chile.