Protostellar catalogue comparison

Hyper catalogue: IRDC_l015_l055_temperature_mass_luminosity_run_70_350.dat
Total Hyper sources: 1042
IRDP catalogue: python_src_assoc_70_160_250_350_10.2asec.dat
Total IRDP sources: 1200
Specifications: separation = 10.2", 15<l<55 degrees, wavelengths required = 70, 160, 250, 350

CATEGORIES

Missing from IRDP, found with Hyper

Agreed by Hyper and IRDP

Missing from Hyper, found with IRDP

Found in Hyper starless

Not found in Hyper starless

DATA / INFO

Catalogue:
protostellar_hyper_proto_not_found.dat

Number of sources: 49

Comparison run using 70micron coordinates. Inspection showed that most sources were not found as a result of a different 70micron counterpart appearing in the merged IRDP catalogue to the Hyper photometry output.

Catalogue:
protostellar_agreed_sources.dat

Number of sources: 993

Majority of sources were agreed on by IRDP and Hyper.

Catalogue:
protostellar_misclassified_sources.dat

Number of sources: 65

The majority of these sources have complex backgrounds at 70microns, resulting in a negative flux returned for the 70micron counterpart and classification as starless.

Catalogue:
protostellar_extra_sources.dat

Number of sources: 142

These sources appear to be protostellar sources close to the borders of the IRDC maps, and therefore filtered out by Hyper.