

README File for the MARGIE Catalog:

The run catalog for Natalia Zotov's balloon mission (carrying the Apogee Instruments star camera known as MARGIE) was generated by Dave Tracewell using the 2/99 revision of MMSCAT, which utilized the SKY2000 Version 2 Master Catalog as input. This is the first run catalog generated that incorporates the RXTE CCDST magnitudes as input to the REDMAG Subsystem (4572 stars), and is also the first run catalog to use the full precision of the SKY2000 Version 2 MC. (The previous SWAS run catalog generated 9/98 utilized the older MMSCAT software and used a version of the SKY2000 V2 catalog reformatted to the older V1 format so that the software operational then could read it.)

This run catalog has a limiting magnitude of 8.5 instrumental (132,585 stars). The predicted magnitudes have not been corrected in any way to account for the transformation from the spectrophotometric scan system to the CCD ST system (a transformation not modeled in this version of MMSCAT), nor has the magnitude "tweaking" been applied. Therefore, any improvements to the MMSCAT magnitude prediction process can be applied as a post-processing step, without re-generating the catalog.

The quality assurance on this catalog was performed by Chris Sande and followed the Q.A. checklist used by the SKYMAP Task.

Chris Sande, 06/24/99