

Report on Polar MFE Data Processing

July 2002

The processing of final data for March and April 2001 was more challenging than normal due to the eclipse intervals occurred during the two months. A good deal of human intervention was needed in both data processing and calibration, but we managed to complete both March and April 2001. The timing table is again up to date, and we have greatly improved our coverage in attitude data smoothing. Our near-term goal is still to produce more key parameter data and final data. The table below shows all the segments in processing Polar MFE data and their statuses.

(As of August 12, 2002)

	Months Completed	Months in Process	Received not processed	% Complete
Timing Table	77 (to 7/02)	8/02	NA	100%
Attitude Data Smoothing	73 (to 3/02)	04/02	5/02 – 7/02	95%
Offset Calculation	70 (to 12/01)	1/02	2/02 – 7/02	91%
Level 0 Rotation	63 (to 5/01)	6/01	7/01 – 7/02	82%
Coupling Matrix Calculation	63	6/01	7/01 – 7/02	82%
Magnetometer Calibration	62 (to 4/01)	5/01, 6/01	7/01 – 7/02	81%
Preliminary High-resolution Data	62	5/01, 6/01	7/01 – 7/02	81%
Level 1 Processing	62	5/01, 6/01	7/01 – 7/02	81%
Data Inspection	62	5/01, 6/01	7/01 – 7/02	81%
Key Parameters	62	5/01, 6/01	7/01 – 7/02	81%
Web Data Server	62	5/01, 6/01	7/01 – 7/02	81%