Imperial College London

MAG Data Release Report 2009



5 January 2021 (report covers	s data release for 1-30 Sept)
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Report	2	L2 ground processing	1.6	
Version		software version:		
MAG PI	Tim Horbury t.horbury@imperial.ac.uk			
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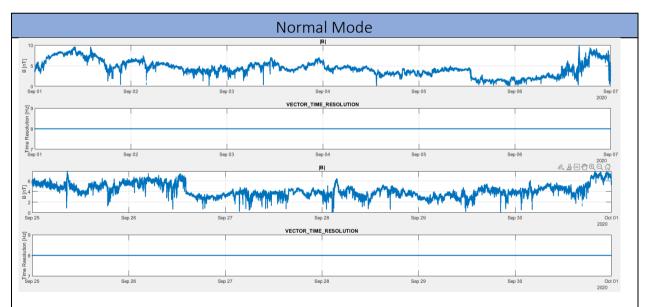
Data Summary

The operational philosophy of the MAG instrument was to be on throughout the period. There was a disruption to operations due CSW update on 6 September. MAG was rebooted following this shutdown on 18 September, however the sensors were at a higher temperature than nominal, and the cleaning of the heater signal has not yet been optimised. The sensors were returned to -90C on 24/9.

This release covers data for 1-6 September and 25-30 September.

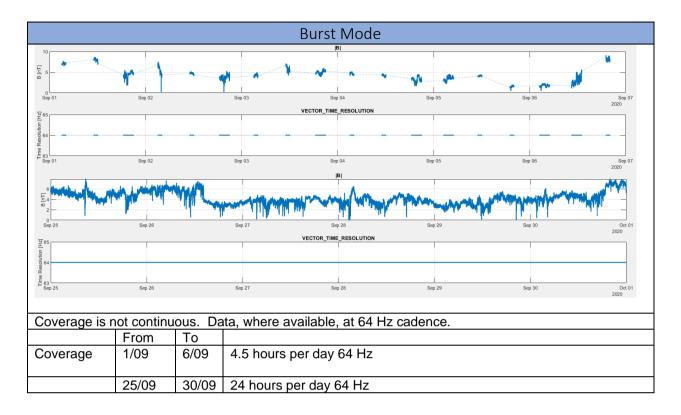
We intend to release 19-24 September at a later date, when the heater signal during this period is better understood.

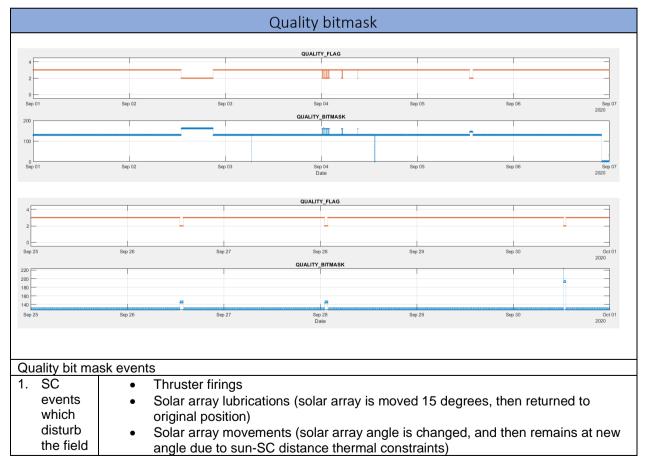
The spacecraft started September at 0.91AU and finished at 0.98AU.



For whole month, MAG was on with 8Hz cadence normal mode data returned, for exceptions see below.

Operations	1-6 Sep	Cruise phase throughout month			
	25-30 Sept				
Operational	6 Sept 23:59:57	MAG power down for CSW update			
Events of	18 Sept 09:22	MAG power on after CSW update			
Note	24 Sept	Set MAG sensor heater set points to -90C			
Data Gaps	No data gaps within				
	range specified				





2.	SC	No particular issues
	related	
	issues	



1-6 Sept:
OBS offset remains constant whereas IBS offset changes linearly in y from 4 Sept to 6 Sept.
These offsets have been quantified and removed from the L2 data.

Offset	Date	OBSX	OBSY	OBSZ	IBSX	IBSY	IBSZ	
47	30/08/2020 04:19	-7.24	-19.26	-5.74	-49.63	84.27	13.89	After SA MOVEMENT
47	03/09/2020 23:59	-7.24	-19.26	-5.74	-49.63	84.27	13.89	Until end of 3rd Sept
47	04/09/2020 00:00	-7.24	-19.26	-5.74	-49.63	84.27	13.89	From start of 4th Sept
48	06/09/2020 23:59	-7.24	-19.26	-5.74	-49.63	83.77	13.89	Power off due to software upgrade
60	19/09/2020 00:00	-7.45	-20.05	-5.15	-47.83	83.77	14.34	Power on after sotware upgrade
60	24/09/2020 12:00	-7.45	-20.05	-5.15	-47.83	83.77	14.34	switch off for reboot
61	24/09/2020 14:00	-9.27	-26.82	-5.48	-48.89	83.43	14.77	Switch on
61	01/11/2020 18:56	-9.27	-26.82	-5.48	-48.89	83.43	14.77	Will be changed as offsets improve