

Cluster manoeuvres: September 2023 - April 2024

ESOC version v037, 01 December 2023

Spacecraft	Science data stop	Science data re-start	Nominal manoeuvre time
C2	17/09/2023 13:19	17/09/2023 18:40	17/09/2023 16:34:00
C2	06/11/2023 07:28	06/11/2023 12:49	06/11/2023 10:43:00
C2	17/11/2023 14:48	17/11/2023 20:09	17/11/2023 18:03:00
C2	15/01/2024 08:46	15/01/2024 15:57	15/01/2024 12:56:00
C2	16/01/2024 08:14	16/01/2024 15:25	16/01/2024 12:24:00
C2	24/01/2024 09:46	24/01/2024 16:57	24/01/2024 13:56:00
C2	25/01/2024 09:17	25/01/2024 16:28	25/01/2024 13:27:00
C2	01/02/2024 04:00	01/02/2024 11:11:00 (c)	01/02/2024 08:10:00
C2	02/02/2024 10:50 (c)	02/02/2024 18:01:00 (c)	02/02/2024 15:00:00
C3	09/04/2024 08:13	09/04/2024 15:24	09/04/2024 12:23:00
C3	11/04/2024 11:29	11/04/2024 18:40	11/04/2024 15:39:00
C3	18/04/2024 05:45	20/04/2024 19:06	18/04/2024 09:00:00 20/04/2024 17:00:00
C3	28/04/2024 10:15	28/04/2024 15:36	28/04/2024 13:30:00

This table shows the periods around each manoeuvre during which JSOC will not plan collection of science data, and the nominal time of each manoeuvre within those periods. The span of the no-science data period is set by:

- a) Margins assigned by ESOC around each nominal manoeuvre time so as to specify a range within which they may adjust the manoeuvre to take account of latest orbit analysis;
- b) Margins used by JSOC to protect sensitive instruments (those with high voltage systems). Until 14/03/2019, the JSOC margins were typically 1 hour before the manoeuvre and 7 hours after the manoeuvre (and hence must be additional to the ESOC margins). From 14/03/2019, the JSOC margins are typically 1 hour before the manoeuvre and 2 hours after the manoeuvre. The HV instruments were typically off for another 1 hour after the end of no-science data taking period until 16/07/2019 manoeuvre. From the manoeuvre on 16/07/2017, the HV instruments are off for another 15 minutes instead of 1 hour.
- c) The payload on SC2 was switched off for the short eclipse season at the start of 01 February 2024 manoeuvre, on 01/02/2024 04:00, so the 'science data re-start' times for 01/02/2024 and 02/02/2024 manoeuvres were esimated but not used in the planning and commanding as all paylad on SC2 stayed off.
- d) In April 2024 payload on SC3 will be in manoeuvre mode not collecting any science data for a long period covering two manoeuvres, from 18/04/2024 05:45 until 20/04/2024 19:06.