

## Cluster manoeuvres: March 2021 - April 2022

V2, 26 October 2021

<i>Spacecraft</i>	<i>Science data stop</i>	<i>Science data re-start</i>	<i>Nominal manoeuvre time</i>
C1	29/03/2021 05:25	29/03/2021 10:46	29/03/2021 08:40:00
C2	29/03/2021 05:36	29/03/2021 10:57	29/03/2021 08:51:00
C1	09/04/2021 12:30	09/04/2021 17:51	09/04/2021 15:45:00
C2	09/04/2021 12:40	09/04/2021 18:01	09/04/2021 15:55:00
C1	24/05/2021 16:49	24/05/2021 22:10	24/05/2021 20:04:00
C2	24/05/2021 16:52	24/05/2021 22:13	24/05/2021 20:07:00
C3	02/06/2021 17:44	02/06/2021 23:05	02/06/2021 20:59:00
C1	02/06/2021 17:52	02/06/2021 23:13	02/06/2021 21:07:00
C2	02/06/2021 17:56	02/06/2021 23:17	02/06/2021 21:11:00
C3	11/06/2021 18:47	12/06/2021 00:08	11/06/2021 22:02:00
C1	11/06/2021 19:00	12/06/2021 00:21	11/06/2021 22:15:00
C2	11/06/2021 19:02	12/06/2021 00:23	11/06/2021 22:17:00
C3	28/09/2021 08:18	28/09/2021 13:39	28/09/2021 11:33:00
C3	25/10/2021 11:42	25/10/2021 17:03	25/10/2021 14:57:00
C3	05/11/2021 19:12	06/11/2021 00:33	05/11/2021 22:27:00
C1	10/02/2022 09:45	10/02/2022 15:06	10/02/2022 13:00:00
C3	10/02/2022 10:15	10/02/2022 15:36	10/02/2022 13:30:00
C4	10/02/2022 10:45	10/02/2022 16:06	10/02/2022 14:00:00
C3	17/02/2022 19:51	18/02/2022 01:12	17/02/2022 23:06:00
C4	17/02/2022 19:52	18/02/2022 01:13	17/02/2022 23:07:00
C1	17/02/2022 19:57	18/02/2022 01:18	17/02/2022 23:12:00
C2	17/02/2022 19:57	18/02/2022 01:18	17/02/2022 23:12:00
C3	24/02/2022 14:49	24/02/2022 20:10	24/02/2022 18:04:00
C3	28/03/2022 07:13	28/03/2022 12:34	28/03/2022 10:28:00
C3	06/04/2022 08:22	06/04/2022 13:43	06/04/2022 11:37:00
C3	15/04/2022 09:26	15/04/2022 14:47	15/04/2022 12:41:00

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.