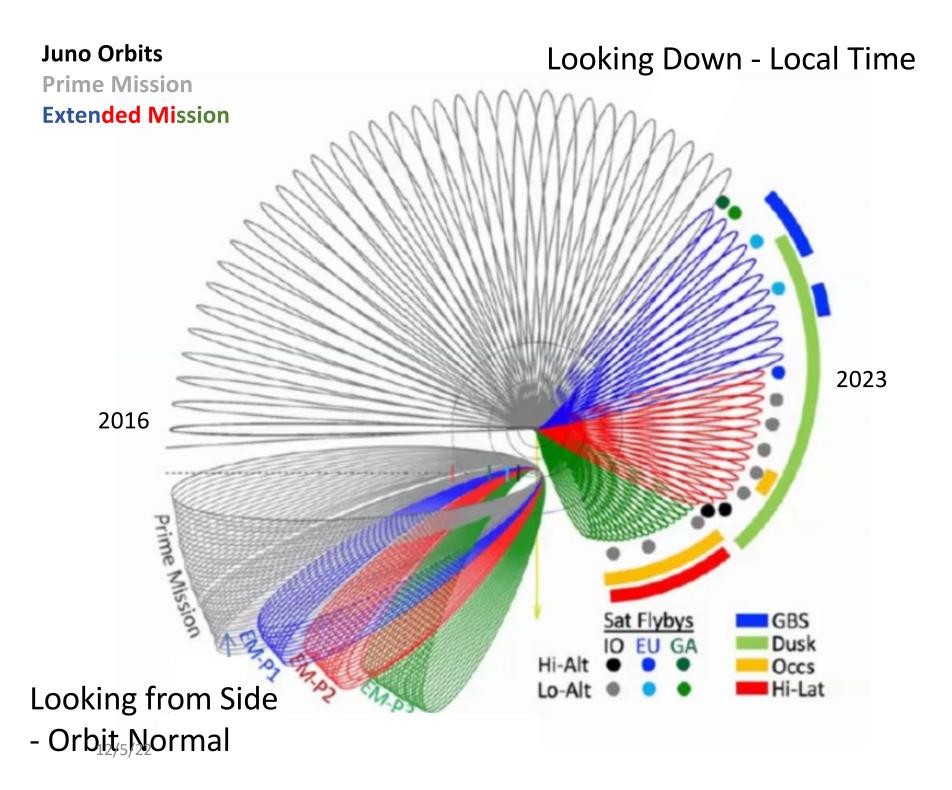
Juno Extended Mission Io & Plasma Torus

- Through Sept 2025 Juno will make several passes throught the Io plasma torus – and a couple passing close to Io
- Earth-based observations of emissions at and around lo would provide context and complementary science
- Here are some plots and dates to help planning
- For further trajectory information go to

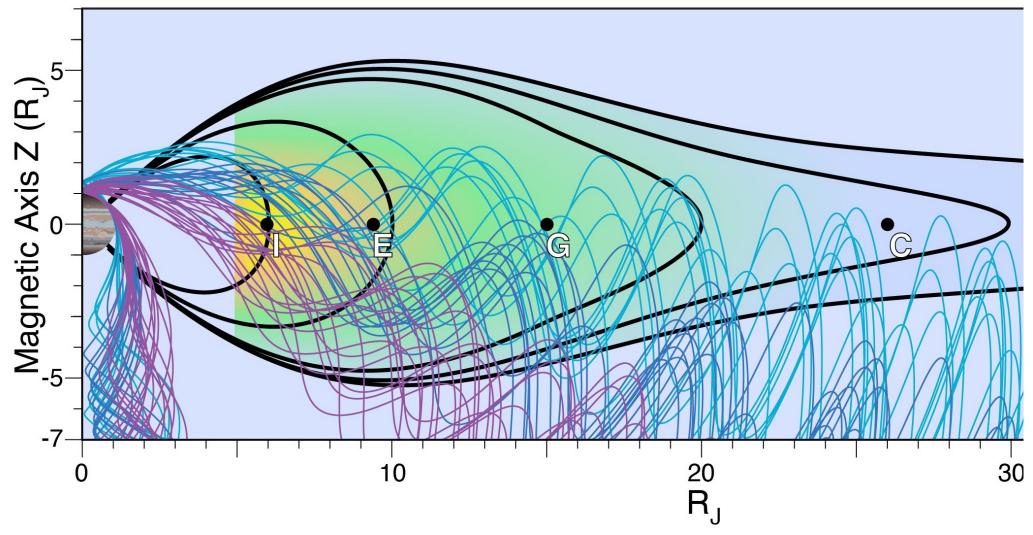
https://lasp.colorado.edu/home/mop/missions/juno /trajectory-information/



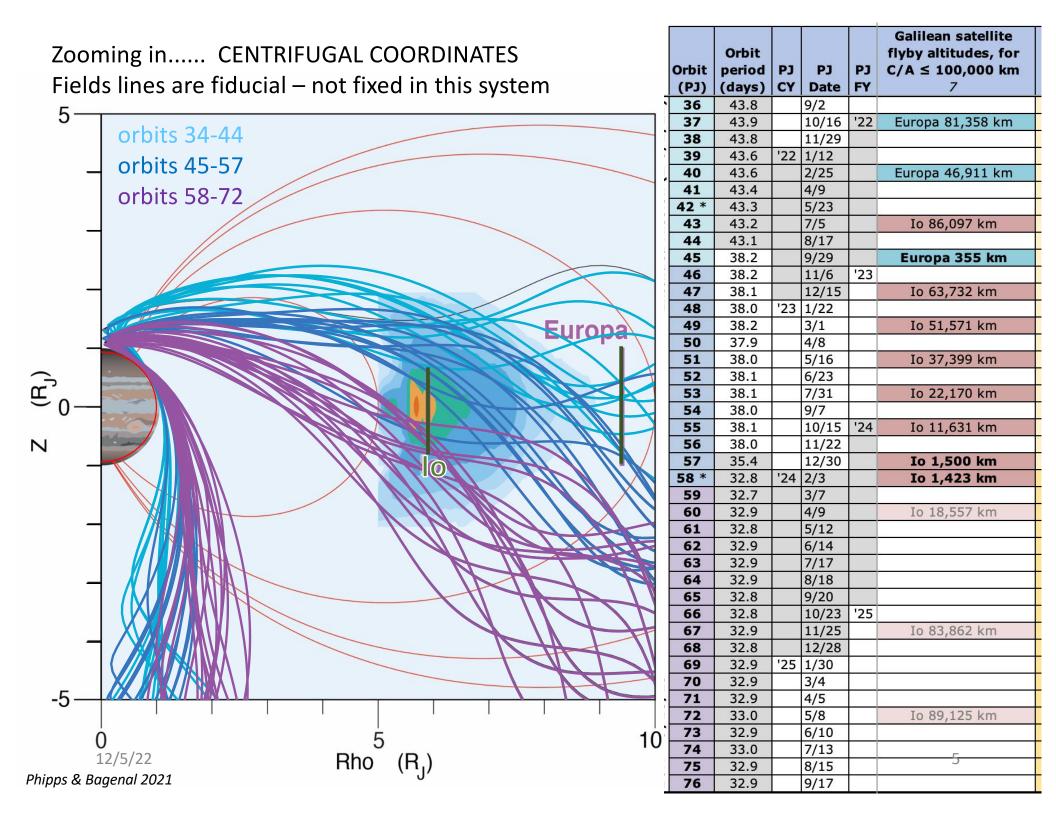
PJ Date Lat ° Science Feature 34 Jun 08 '21 28 Gan 1,000 km (+Occultation) Juno Extended Mission 35 Jul 21 '21 29 Ganymede flyby 50,000 km 36 Sep 02 '21 30 Map Great Blue Spot (GBS) 37 Oct 16 '21 31 Map GBS Eu 88,000 km – Orbit-Normal View 38 Nov 29 '21 31 Map Great Blue Spot 39 Jan 12 '22 32 Map Great Blue Spot 40 Feb 25 '22 33 Europa flyby 46,900 km Showing how crossing of the equator progresses over mission 41 Apr 09 '22 34 Map Great Blue Spot 42 May 23'22 35 Map Great Blue Spot 43 Jul 05 '22 36 lo flyby 85,800 km 44 Aug 17 '22 37 **1st Europa Torus** 45 Sep 29'22 Inbound to PJ01 37 Eu 320 km (+Occultation) 46 Nov 06 '22 38 ASC Ganymede image 47 Dec 15 '22 39 lo flyby 63,200 km 48 Jan 22 '23 Dynamic Tide Threshold 40 49 Mar 01 '23 lo flyby 51,300 km 41 50 Apr 08 '23 1st Nightside PJ Obs. 42 MAG BS, MP 10 35,300 km 51 May 16 '23 43 52 Jun 23 '23 44 Water at 75N 53 32N/21N Jul 31 '23 45 lo 22,000 km Juno Prime Mission 54 Sep 07 '23 45 36N/16N Auroral Curtain 55 Cyclone Map lo 11,600 km Oct 15 '23 46 56 Nov 22 '23 47 1st lo Torus 57 Dec 30 '23 47 lo flyby 1,500 km 58 Feb 03 '24 48 lo flyby 1,500 km 59 Mar 07 '24 49 **GRAV** map Ganymede Europa 10 40N/16N lo 18,600 km 60 Apr 09 '24 50 51N/04S Earth Occultation May 12 '24 51 61 PJ57 PJ58 PJ34 PJ45 62 52 Jun 14 '24 58N / 20S Ingress/Egress 63 Jul 17 '24 53 63N/34S 64 Aug 18 '24 54 66N/44S **Extended Mission** 65 Sep 20 '24 55 68N/49S MAG map 66 Oct 23 '24 56 68N/49S 67 Nov 25 '24 57 66N/42S lo 83,600 km 68 Dec 28 '24 57 64N/32S Jan 30 '25 58 62N/25S 69 70 Mar 04 '25 63N/27S 59 Apr 06 '25 65N/35S Water at 90N 60 72 May 08 '25 61 69N/46S lo 93,900 km 73 Jun 10 '25 62 72N/60S 74 Jul 13 '25 76N/74S 63 Auroral Curtain Aug 15 '25 63 78N/87S Cyclone map 75 76 Sep 17 '25 64 81N/81S Earth Occultations (Ingress/Egress Latitudes) 12/5/22 lo flyby (km) Ganymede flyby (km) Europa flyby (km)

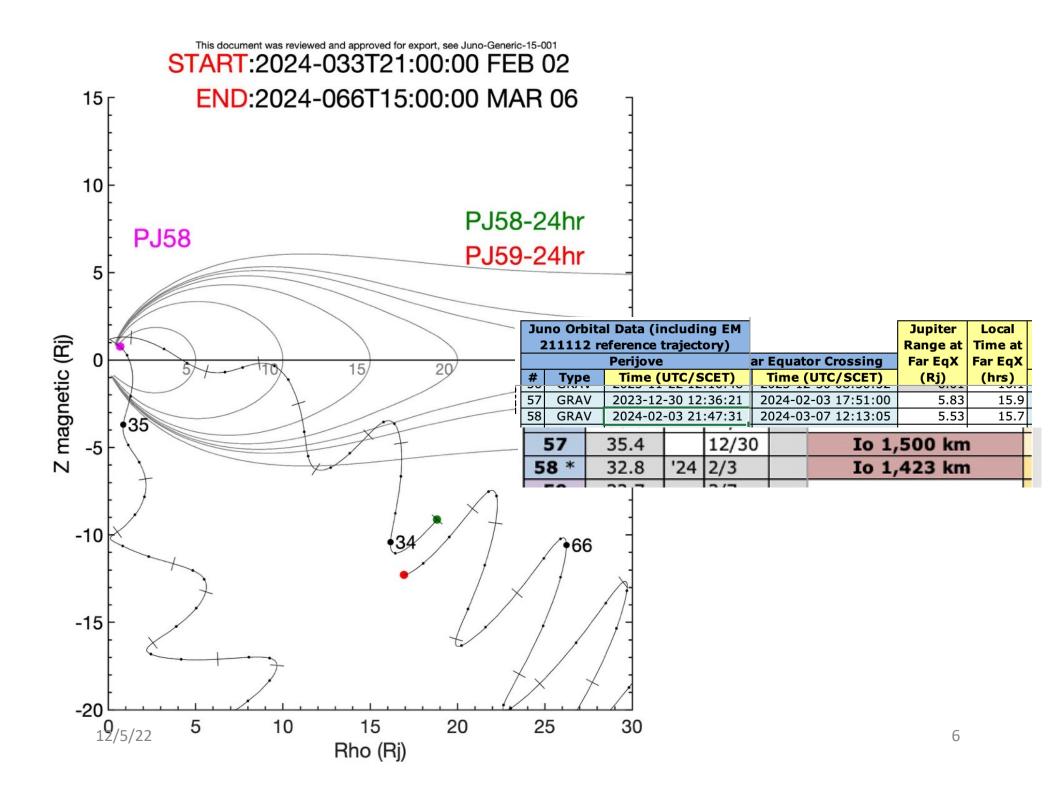
Juno Extended Mission

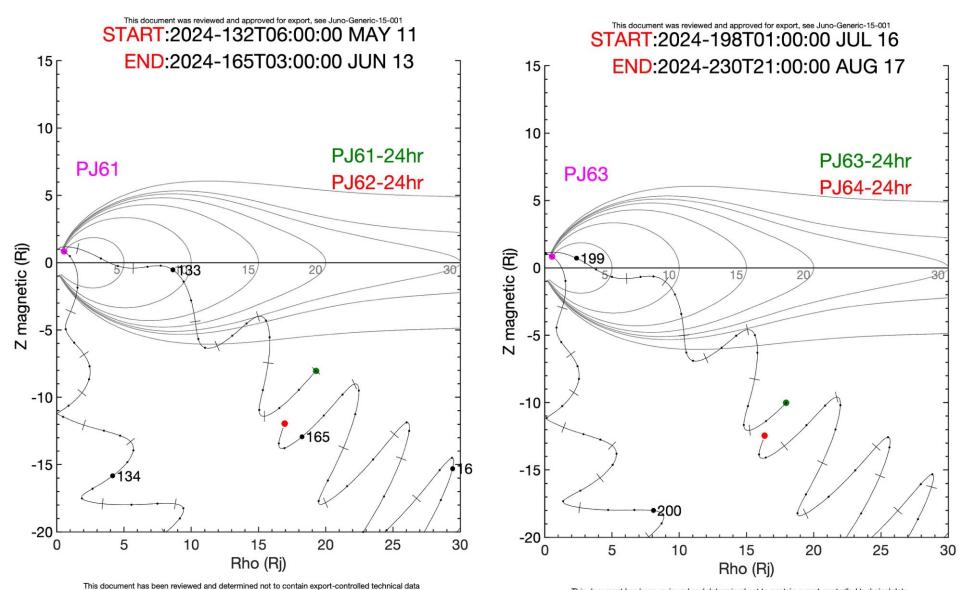
– Magnetic Coordinates



Note that the plasma disk is in the centrifugal equator – not quite same as magnetic







This document has been reviewed and determined not to contain export-controlled technical data

