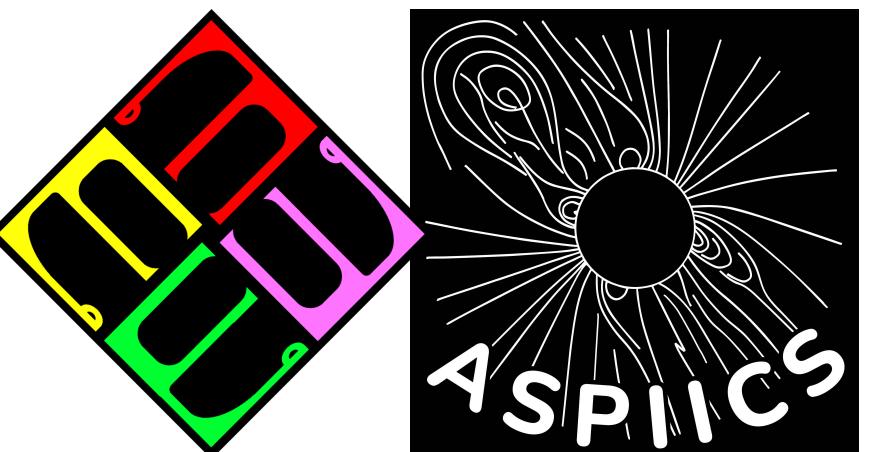


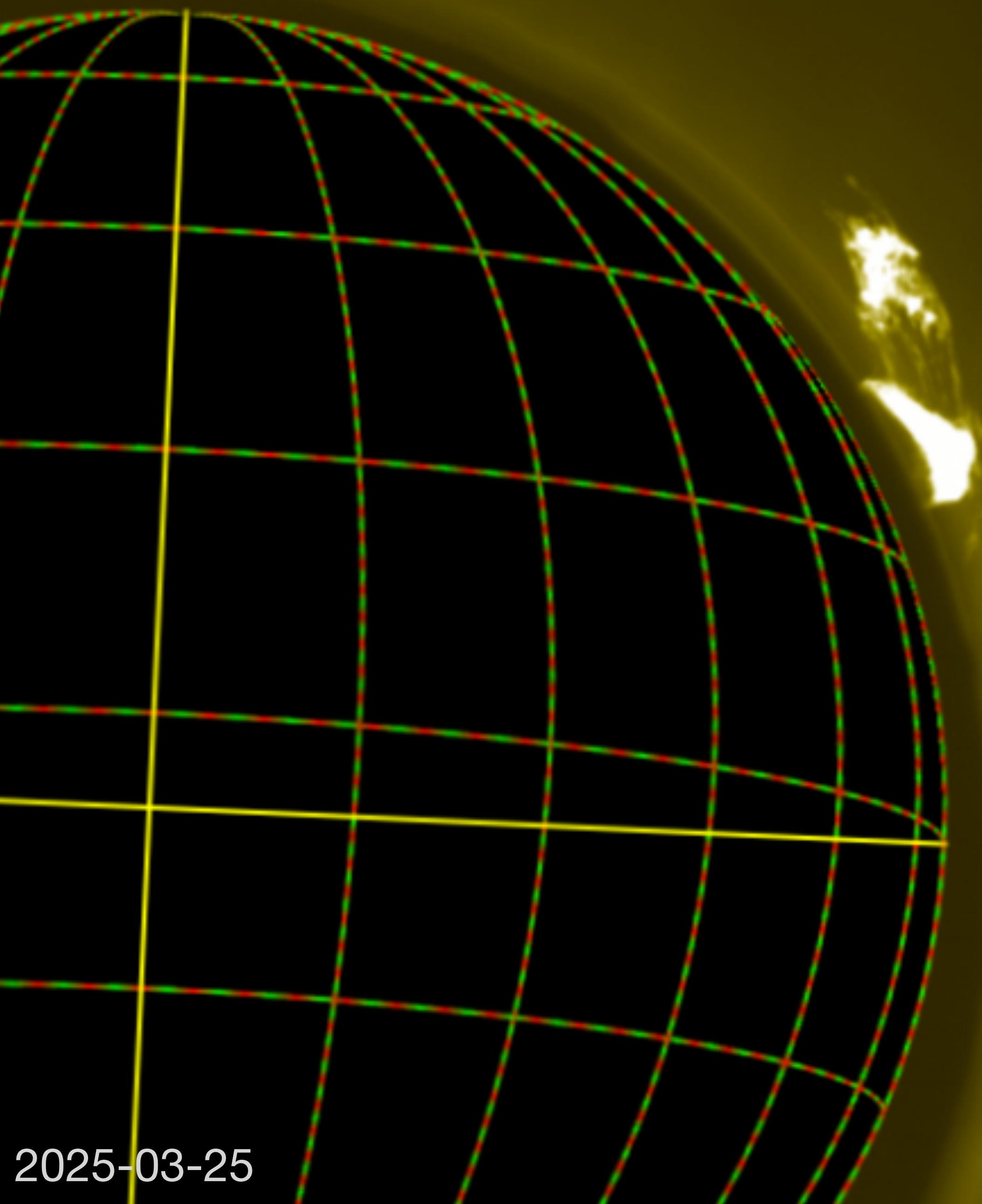
EUI & ASPIICS alignments

Opportunities for joint observations

David Berghmans - Proba-3 ASPIICS SWT 2025 June ROB

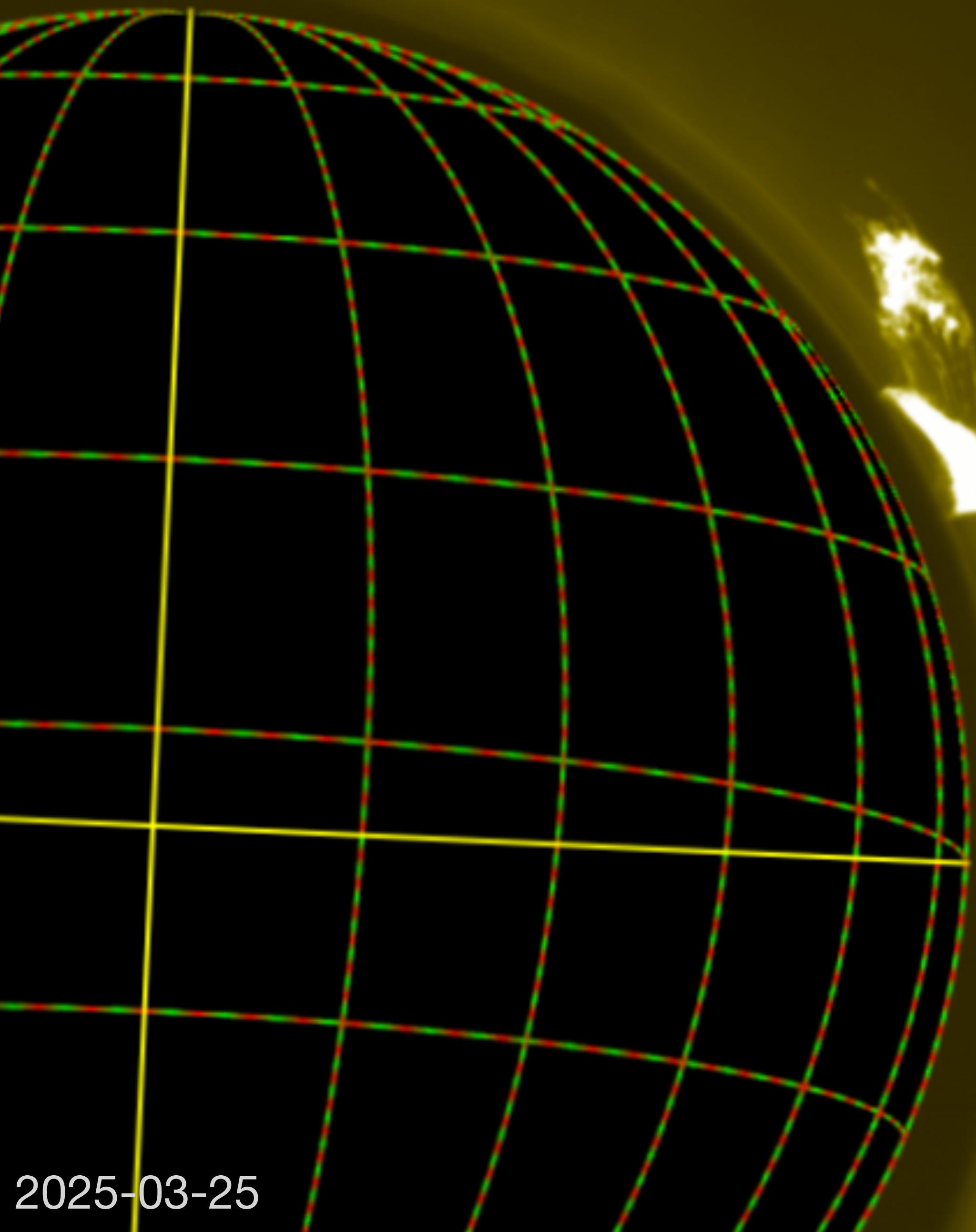


Orbit 135

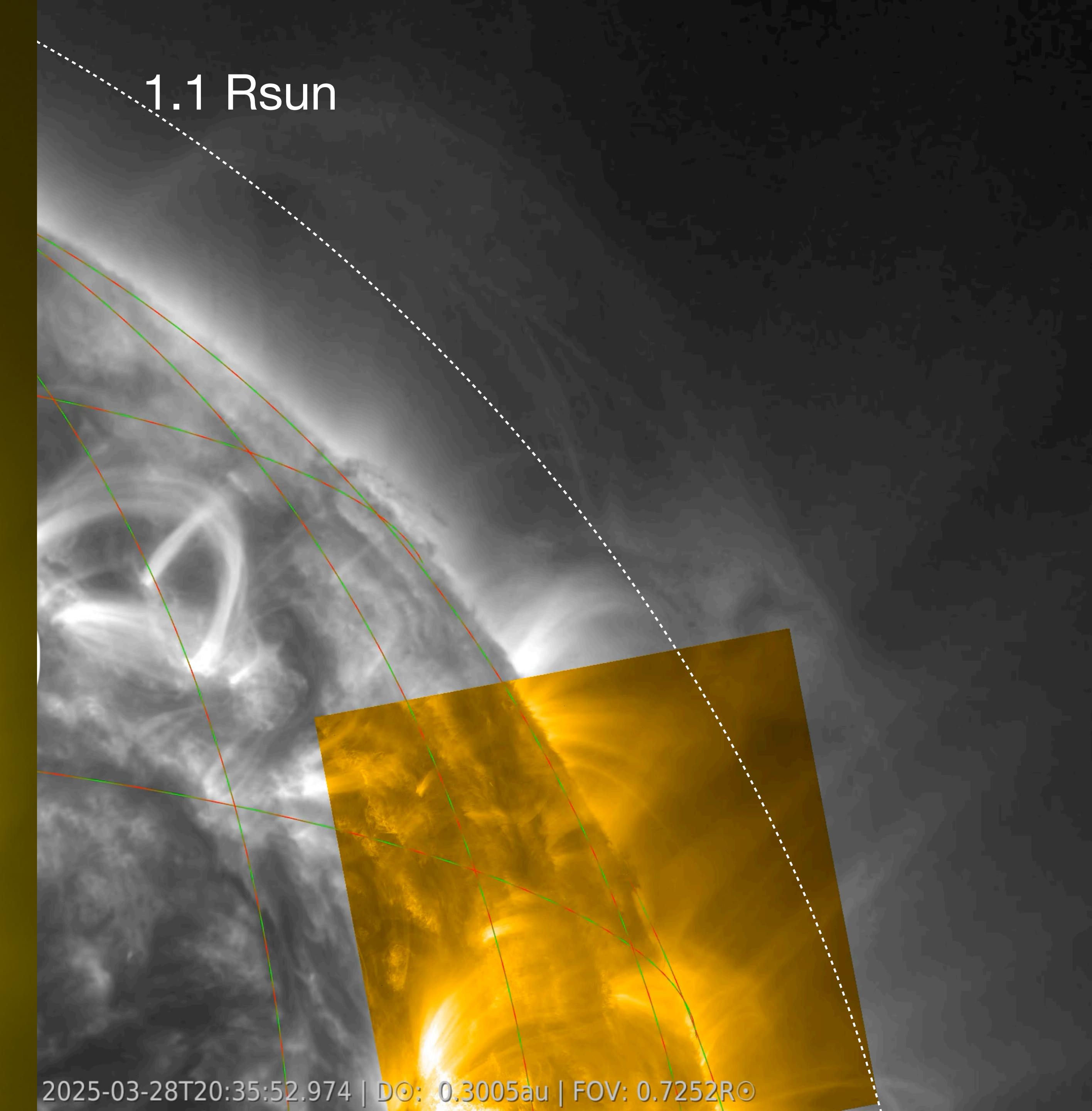


2025-03-25

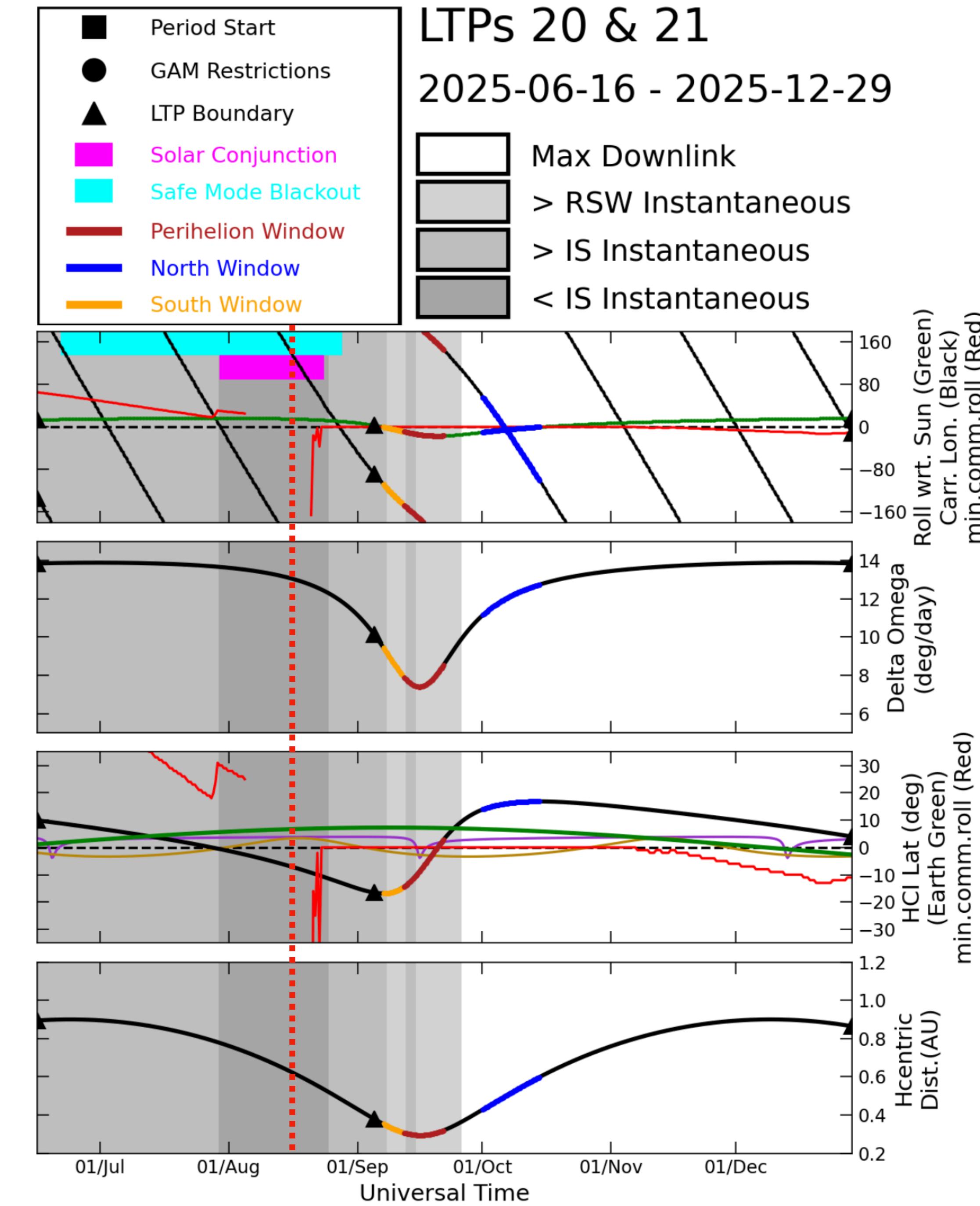
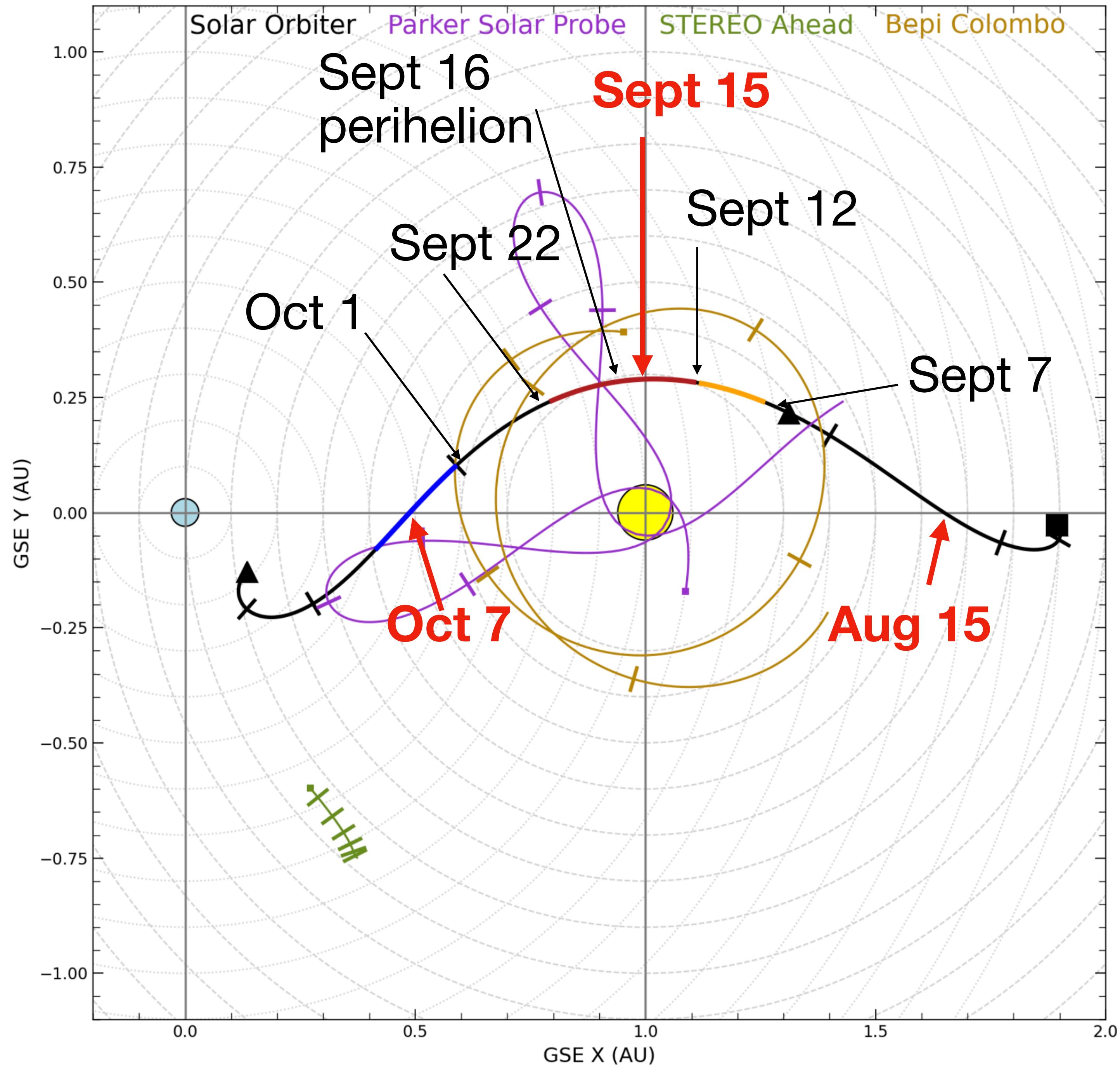
Orbit 135

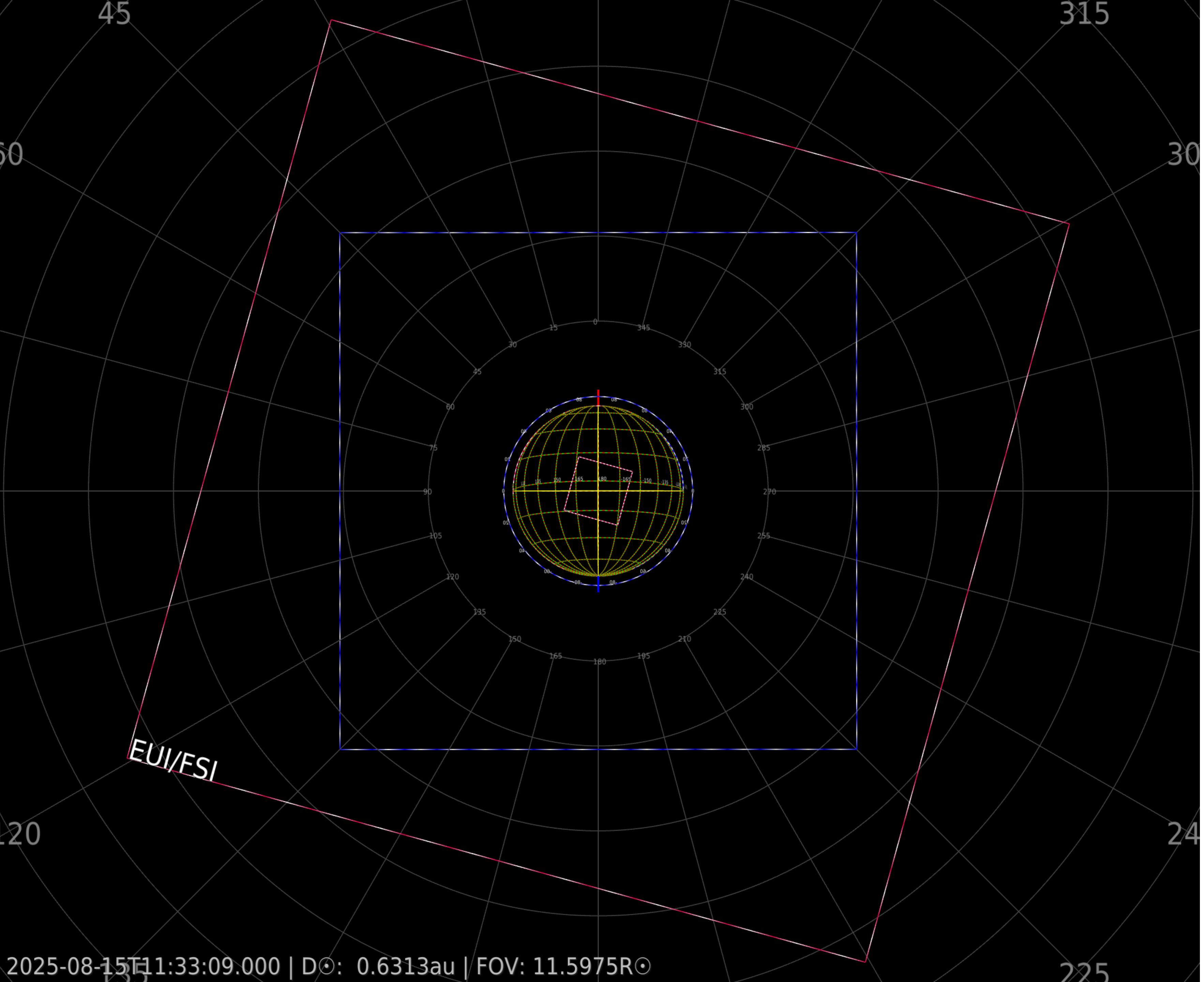


2025-03-25



2025-03-28T20:35:52.974 | DO: 0.3005au | FOV: 0.7252R \odot





2025-08-15

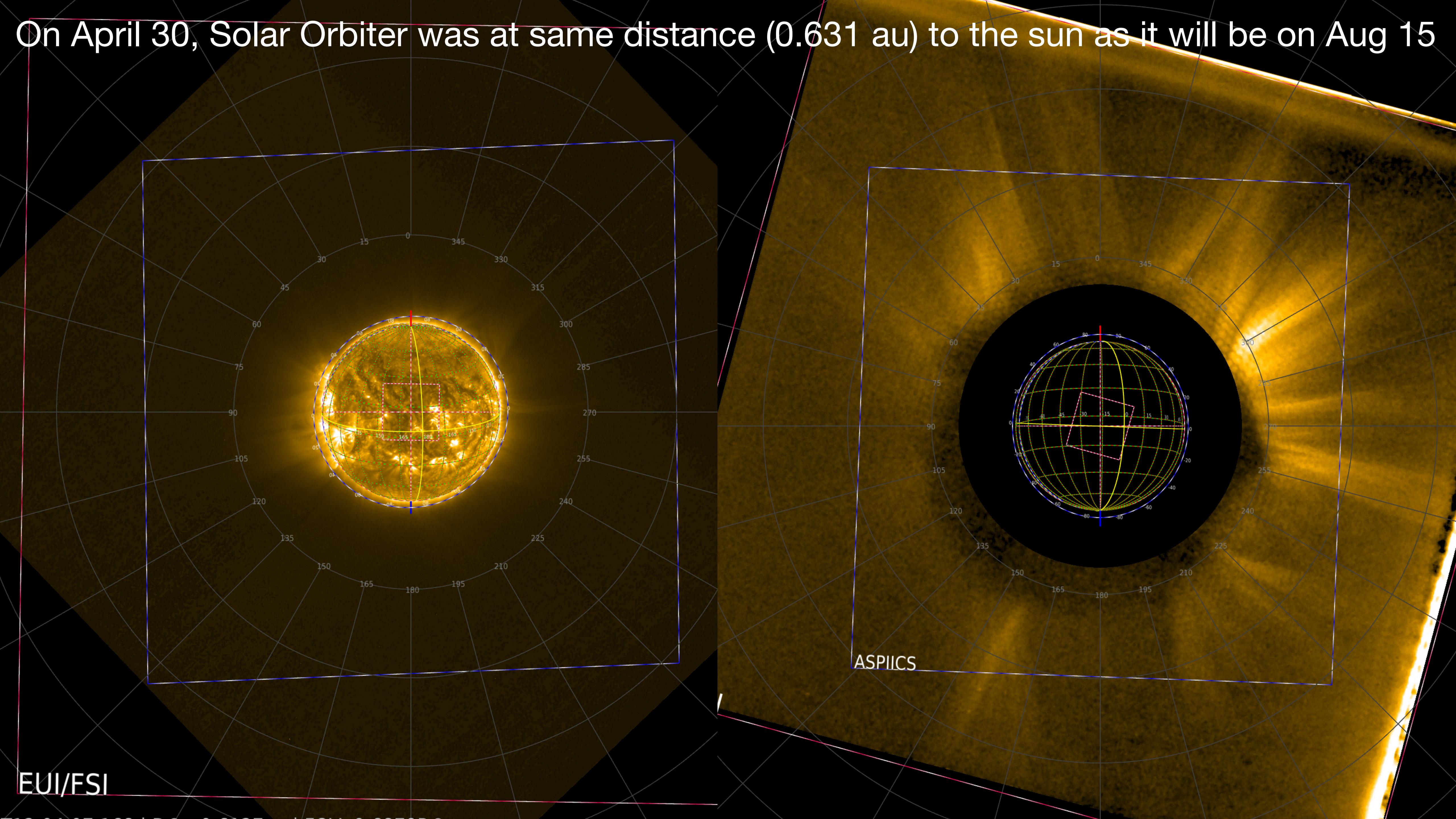
Solar Orbiter aligned in opposition with Earth, same lat, long+180

775 MiB to spend, more than what we can produce in 6h!

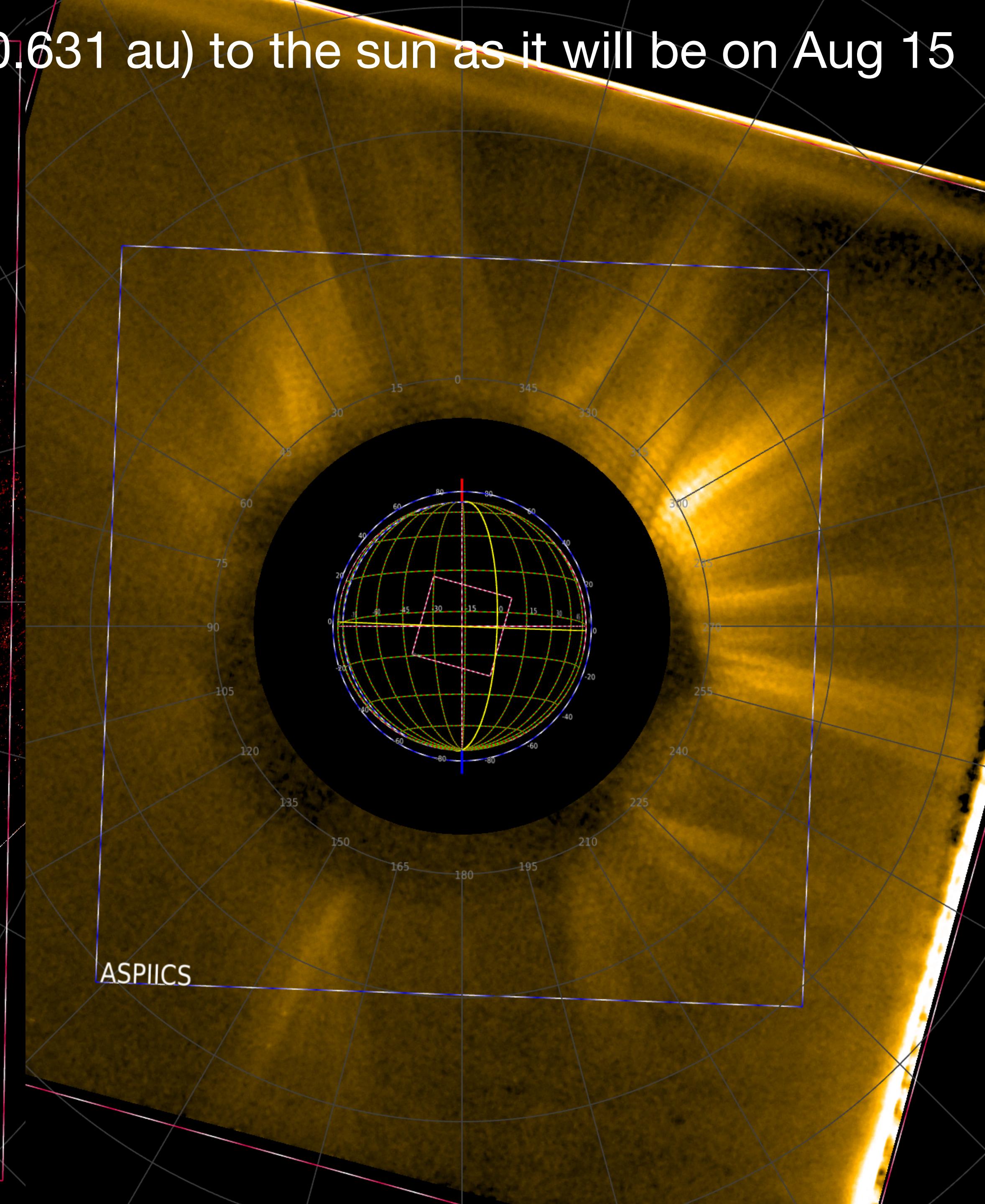
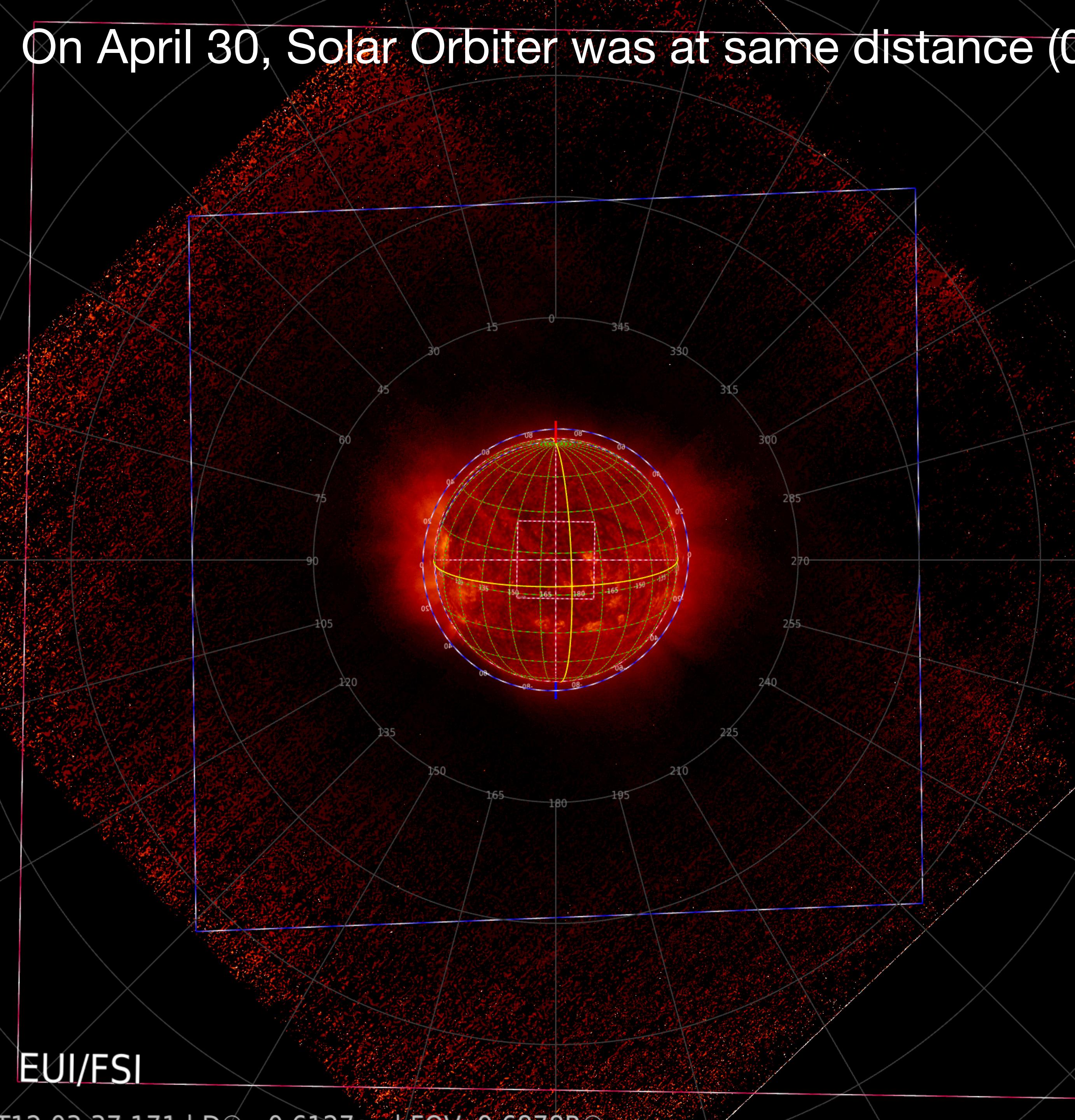
No off-pointing FSI only

Command upload: July 8

On April 30, Solar Orbiter was at same distance (0.631 au) to the sun as it will be on Aug 15



On April 30, Solar Orbiter was at same distance (0.631 au) to the sun as it will be on Aug 15



On April 30, Solar Orbiter was at same distance (0.631 au) to the sun as it will be on Aug 15

EUI/FSI

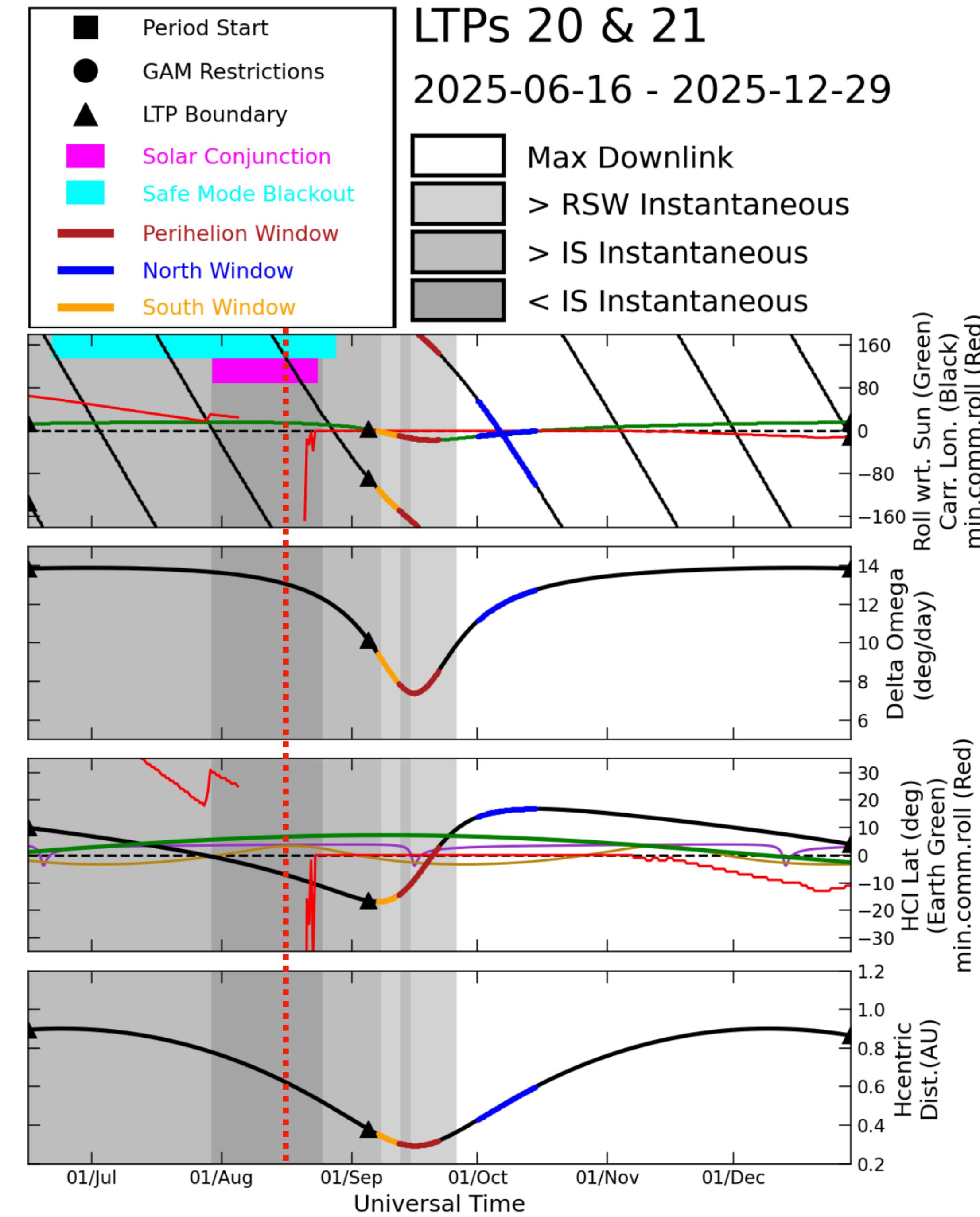
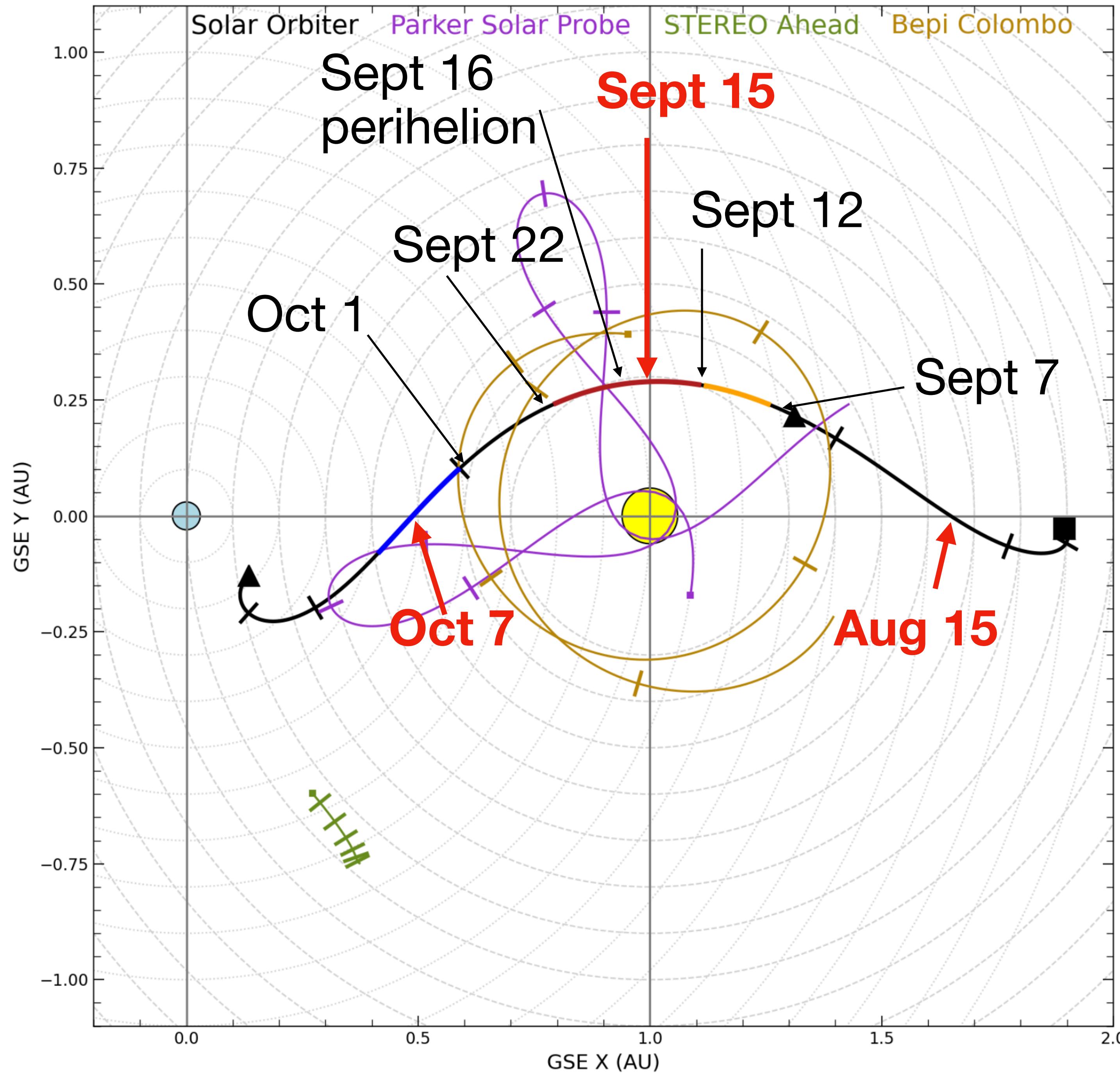
1 regular FSI= 0.63 MiB
max 30s cadence
2h => 151 MiB

FSI

1 occulted FSI= 7 MiB,
max 20 min cadence
4h => 84 MiB

ASPIICS

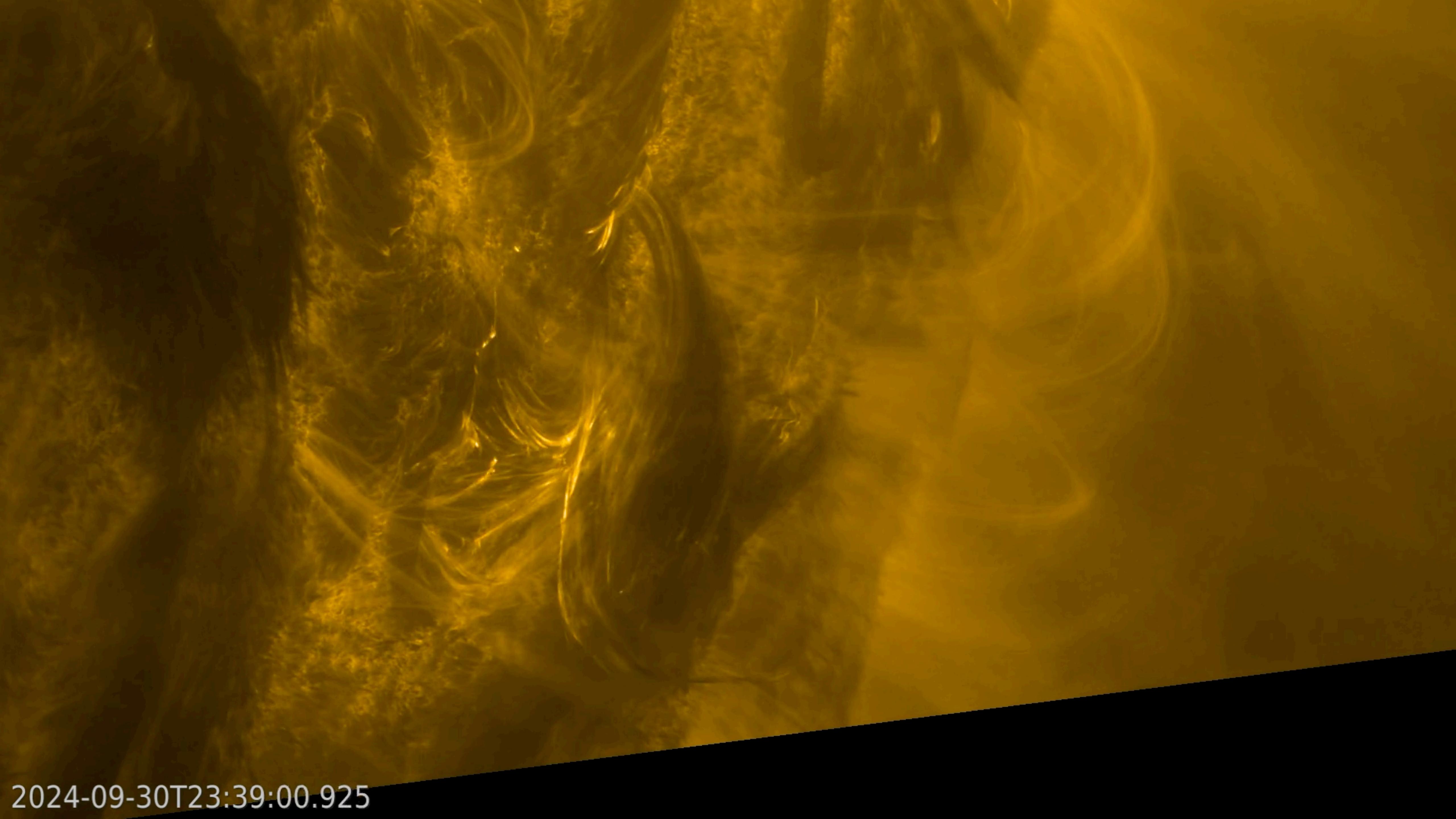
0308	2025 Aug 14 05:39:45	2025 Aug 14 08:39:45	2025 Aug 14 11:39:45		3:39:45
0309	2025 Aug 15 01:19:29	2025 Aug 15 04:19:29	2025 Aug 15 07:19:29	SolO-P3 alignment 15/08 02:10, uGMRT + MWA 02:30-05:30	
0310	2025 Aug 15 20:59:11	2025 Aug 15 23:59:11	2025 Aug 16 02:59:11		
0311	2025 Aug 16 16:38:50	2025 Aug 16 19:38:50	2025 Aug 16 22:38:50		



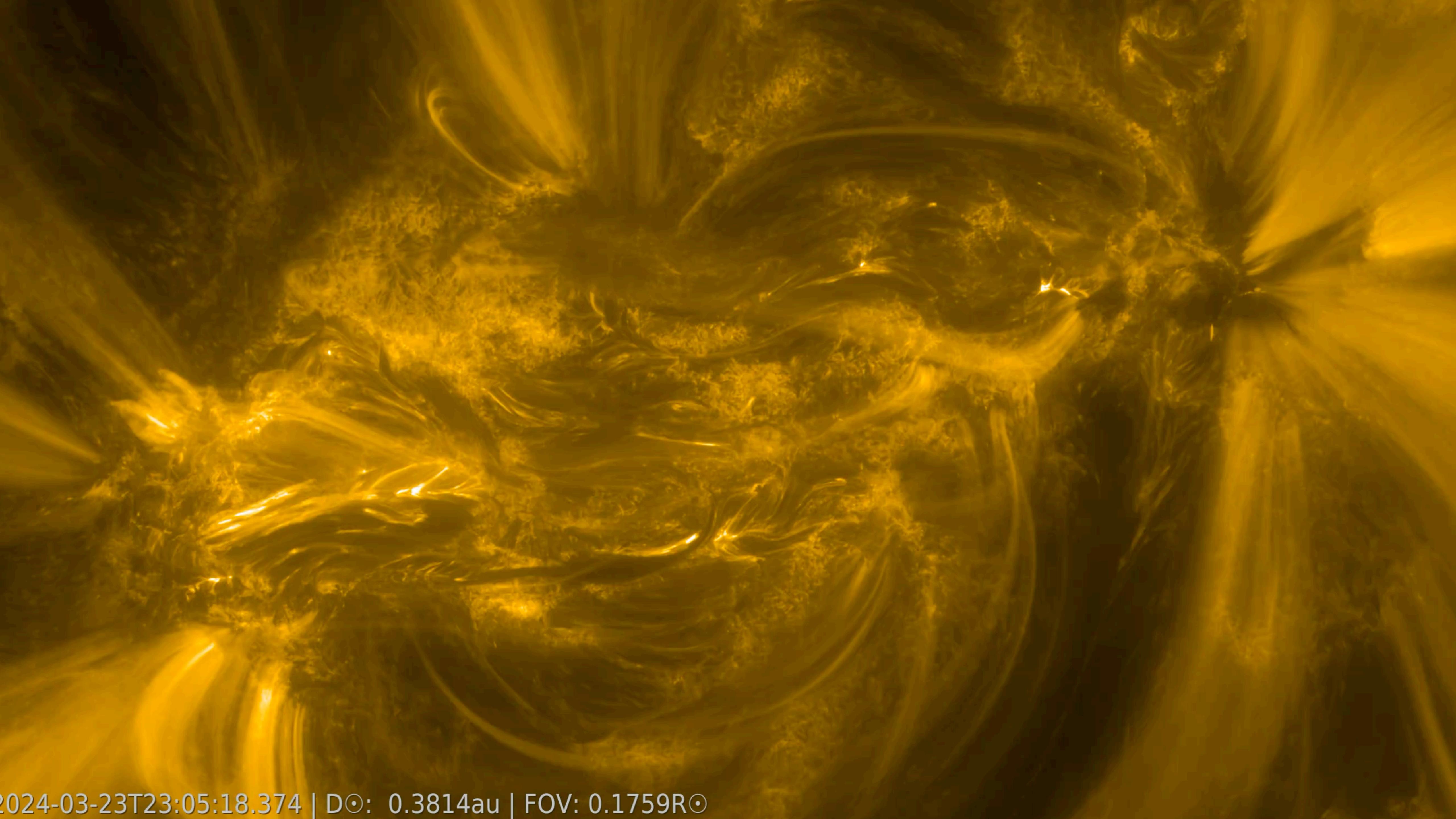
0345	2025 Sep 13 13:09:21	2025 Sep 13 16:09:21	2025 Sep 13 19:09:21	Coronal sources SolO before super-quadrature	2:20:39
0346	2025 Sep 14 08:48:58	2025 Sep 14 11:48:58	2025 Sep 14 14:48:58	Coronal sources PSP before super-quadrature	6:00:00
0347	2025 Sep 15 04:28:36	2025 Sep 15 07:28:36	2025 Sep 15 10:28:36	Super-quadrature with PSP and SolO 15/09 07:00, uGMRT + MWA 04:30-07:30	2:28:36
0348	2025 Sep 16 00:08:13	2025 Sep 16 03:08:13	2025 Sep 16 06:08:13	uGMRT + MWA 02:30-05:30	
0349	2025 Sep 16 19:47:52	2025 Sep 16 22:47:52	2025 Sep 17 01:47:52	Coronal sources PSP before quadrature	
0350	2025 Sep 17 15:27:33	2025 Sep 17 18:27:33	2025 Sep 17 21:27:33		0:02:27
0351	2025 Sep 18 11:07:16	2025 Sep 18 14:07:16	2025 Sep 18 17:07:16	PSP-P3 quadrature 18/09 07:48	4:22:44

Nanoflares quiet Sun	13th September	13th September
Major Flare (instance 1/3)	13th September	13th September
Density fluctuations with HRI support	14th September	15th September
RS Burst, target active region	15th September	15th September
Major Flare (instance 2/3)	16th September	16th September
Major Flare (instance 3/3)	17th September	17th September
Coronal Dynamics	18th September	22nd September
Pole to Pole	18th September	22nd September

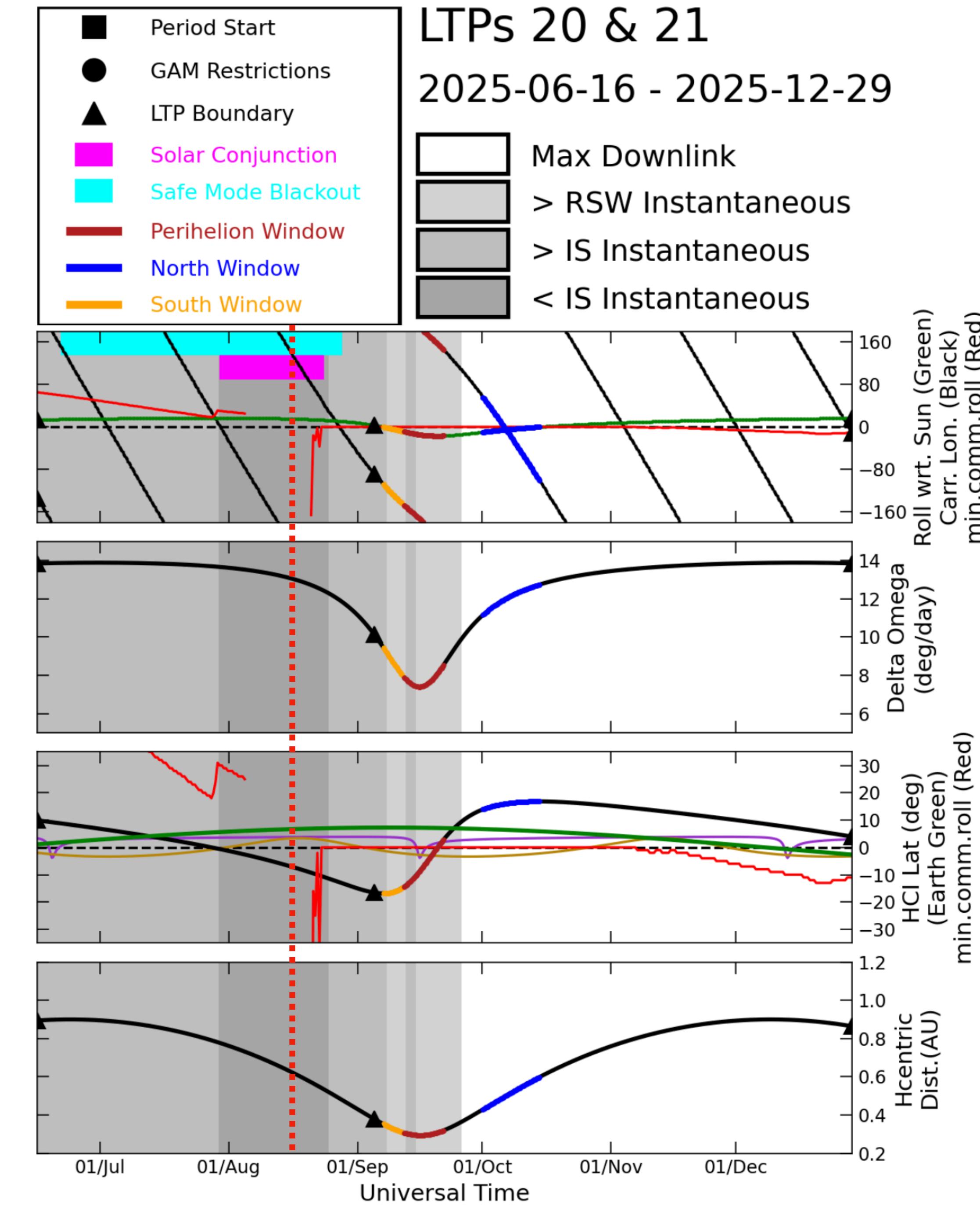
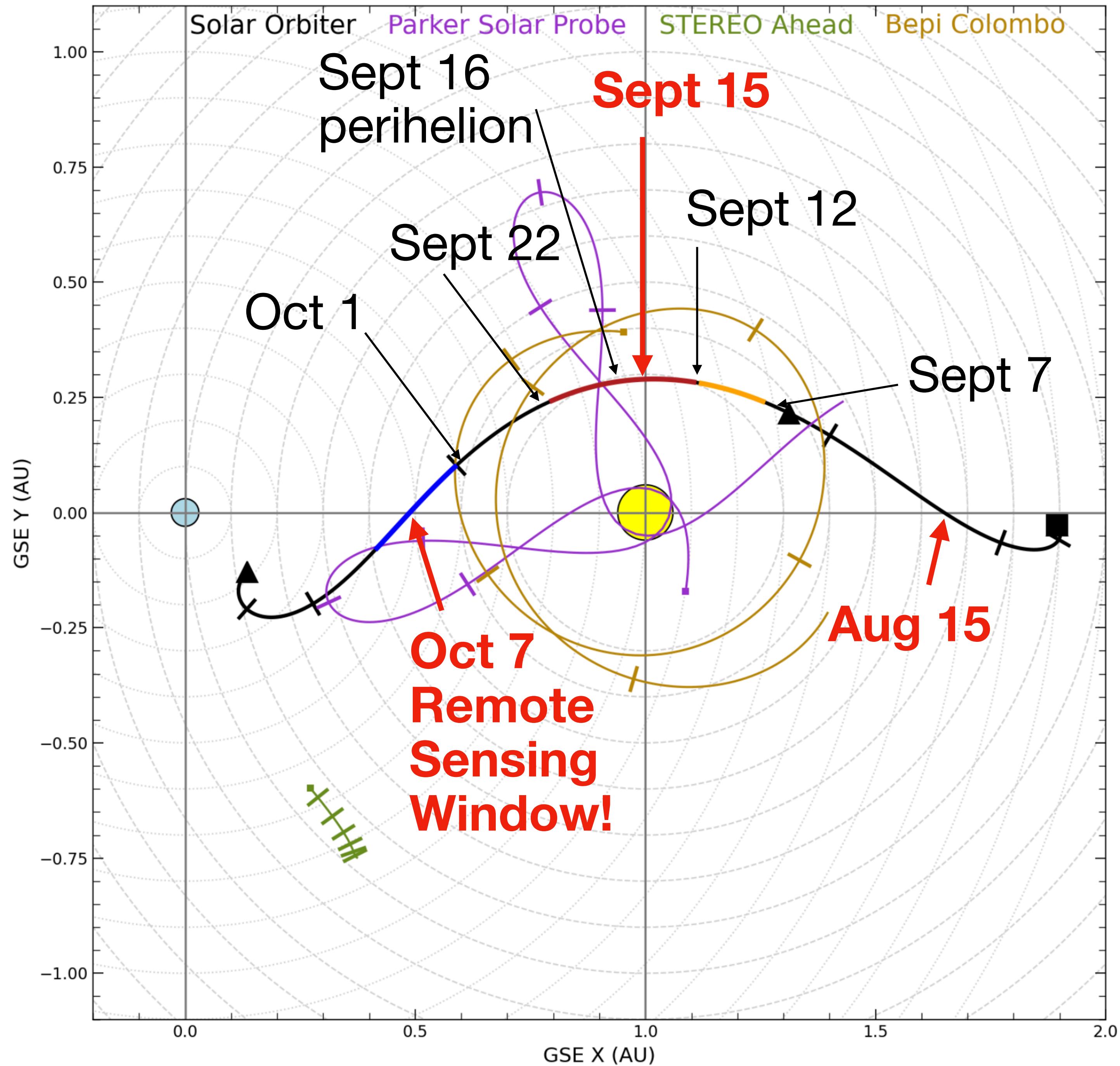
Solar Orbiter coordination deadline: SOWG July 8 -10
 Command upload: end August



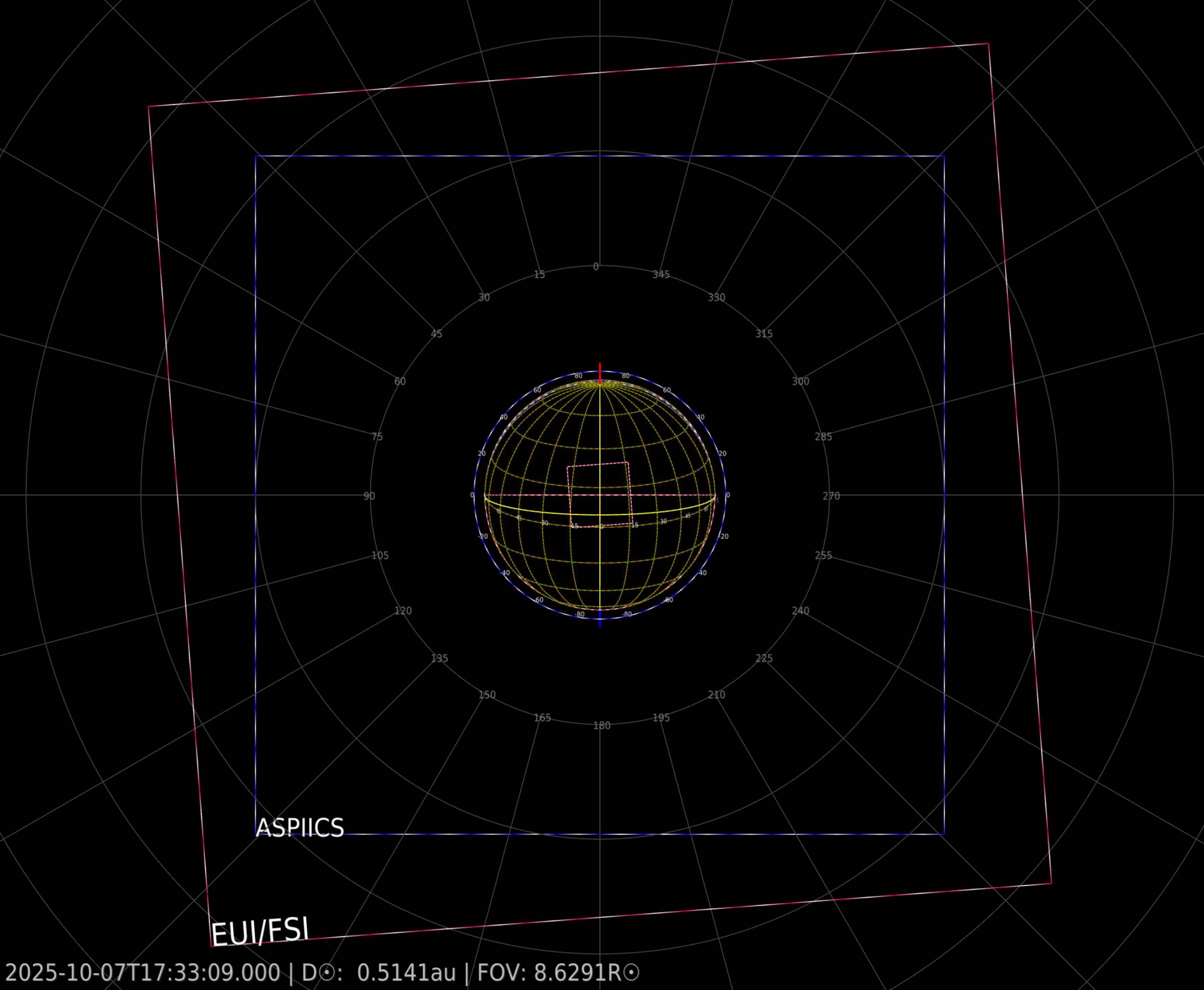
2024-09-30T23:39:00.925

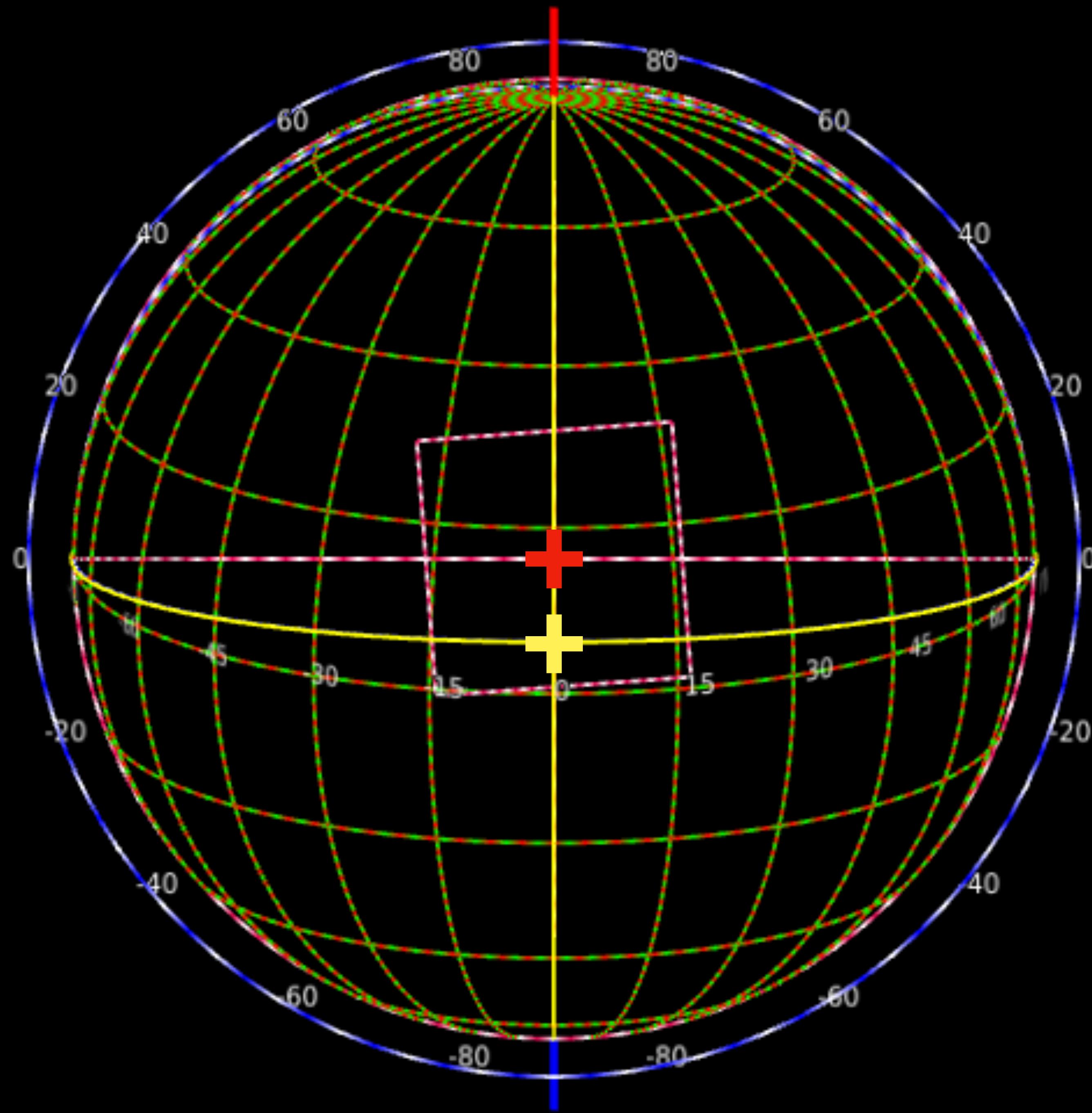


2024-03-23T23:05:18.374 | D \odot : 0.3814au | FOV: 0.1759R \odot



2025-10-07
Solar Orbiter aligned with
Earth in longitude,
not latitude



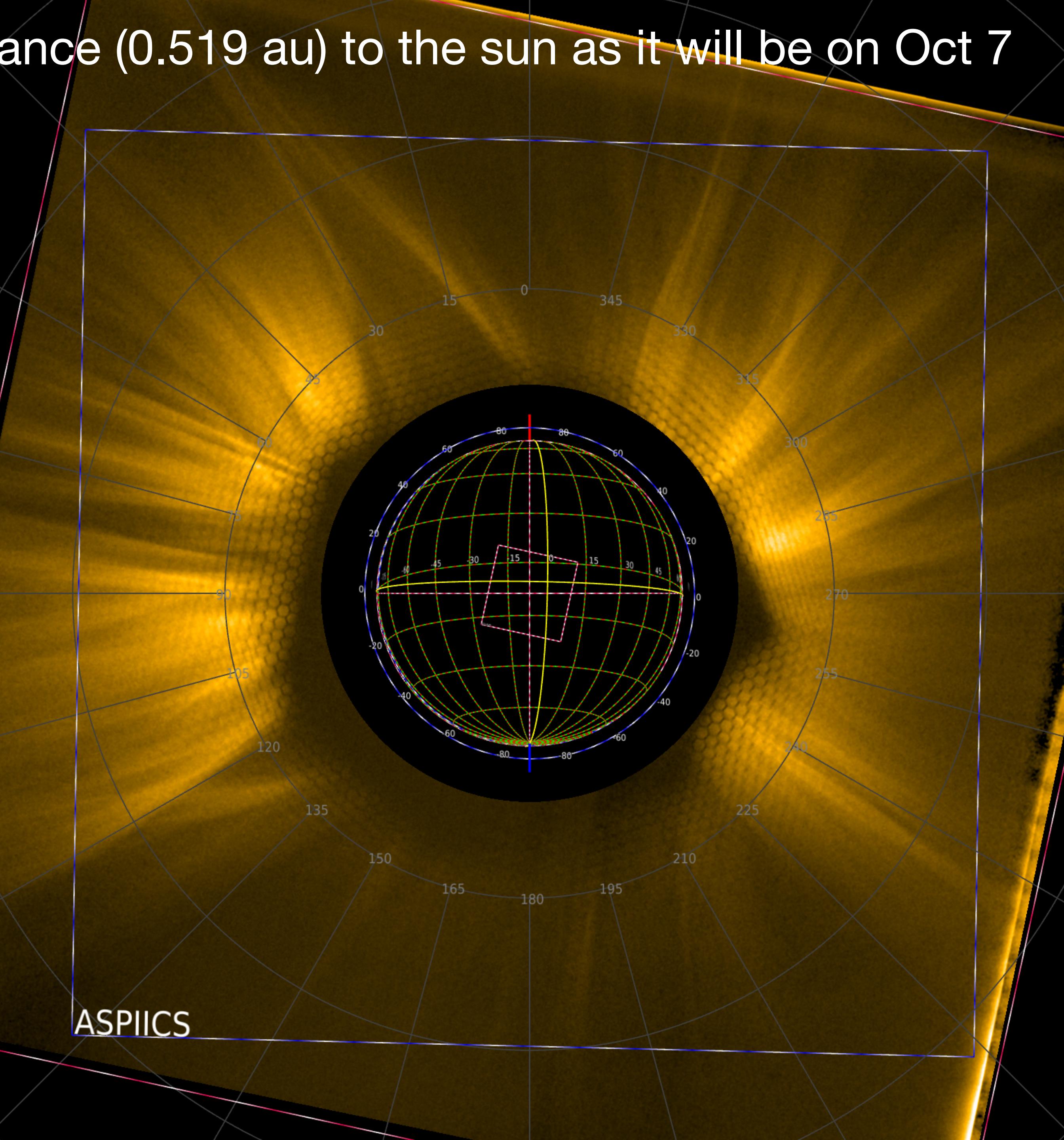
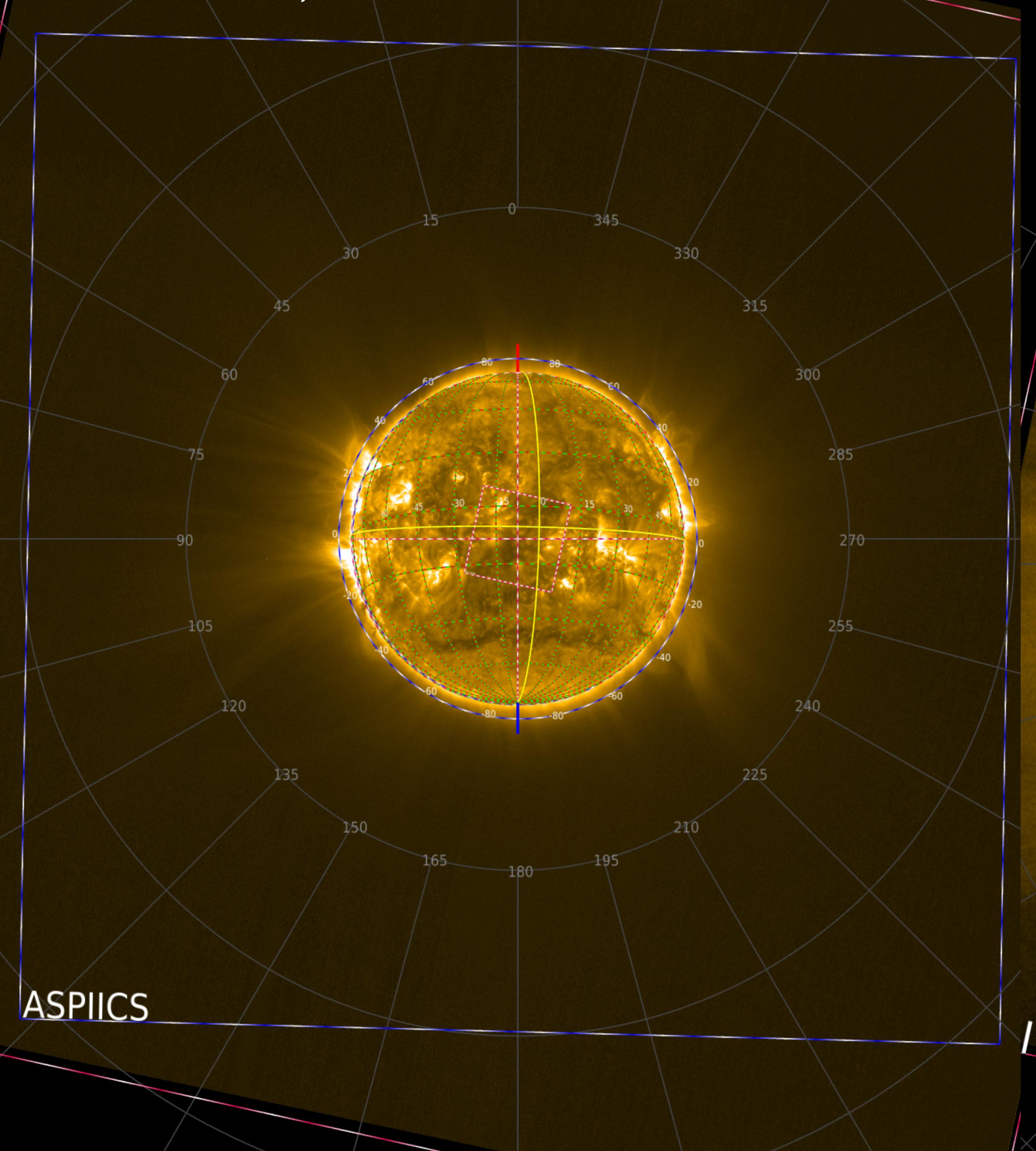


2025-10-07
Solar Orbiter aligned with
Earth in longitude,
not latitude

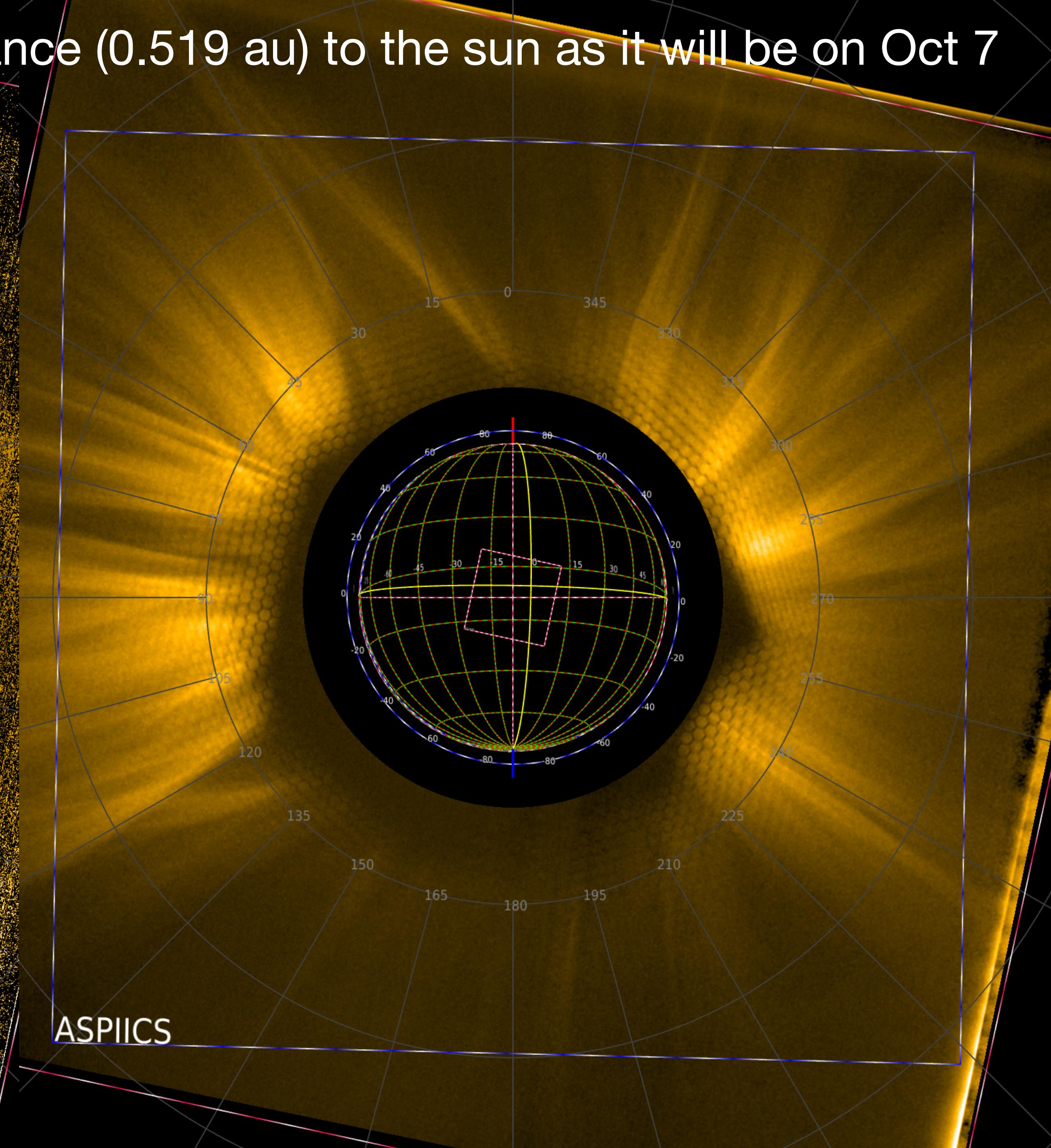
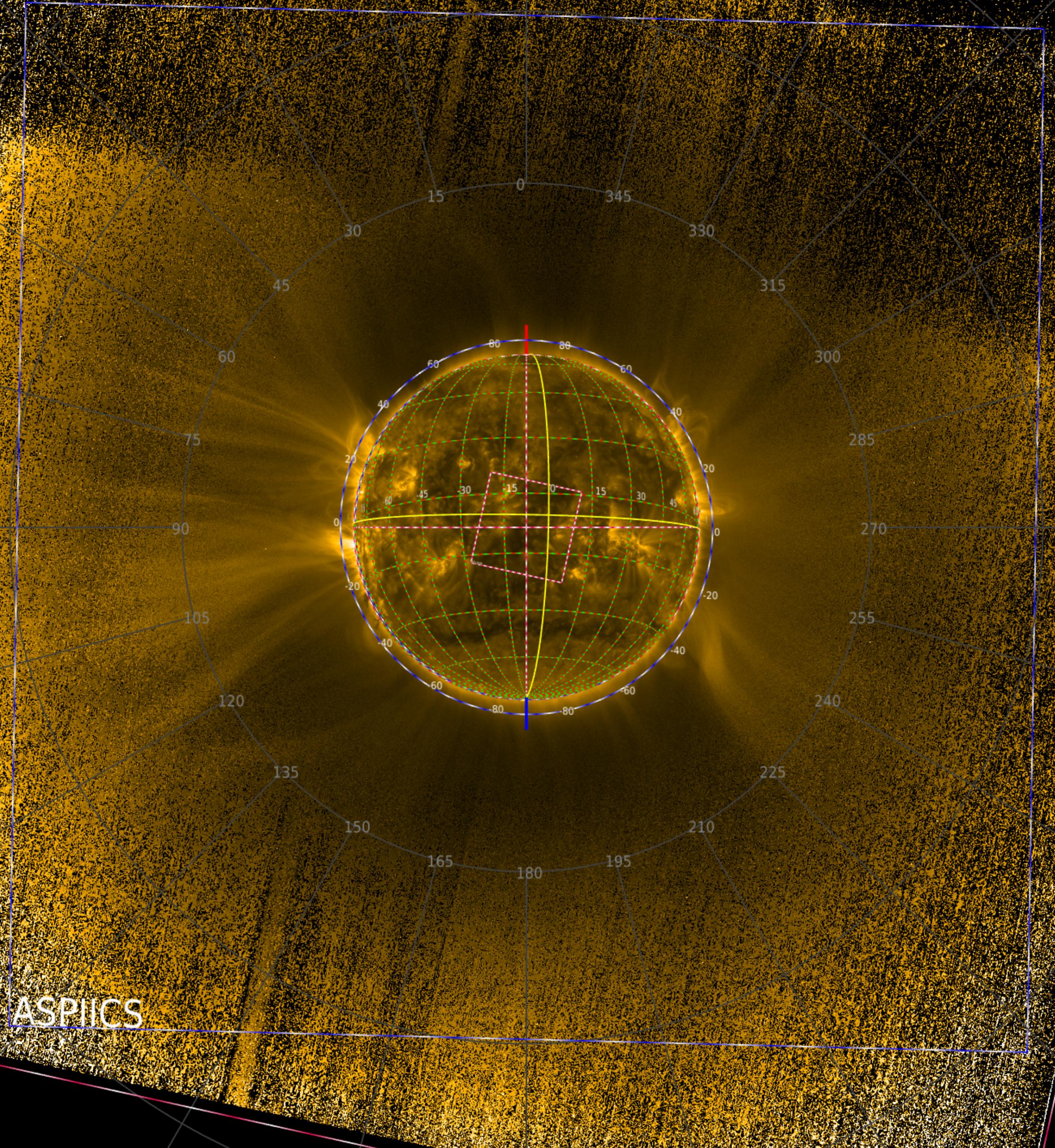
Solar Orbiter at +16 deg lat

Earth at +6deg lat

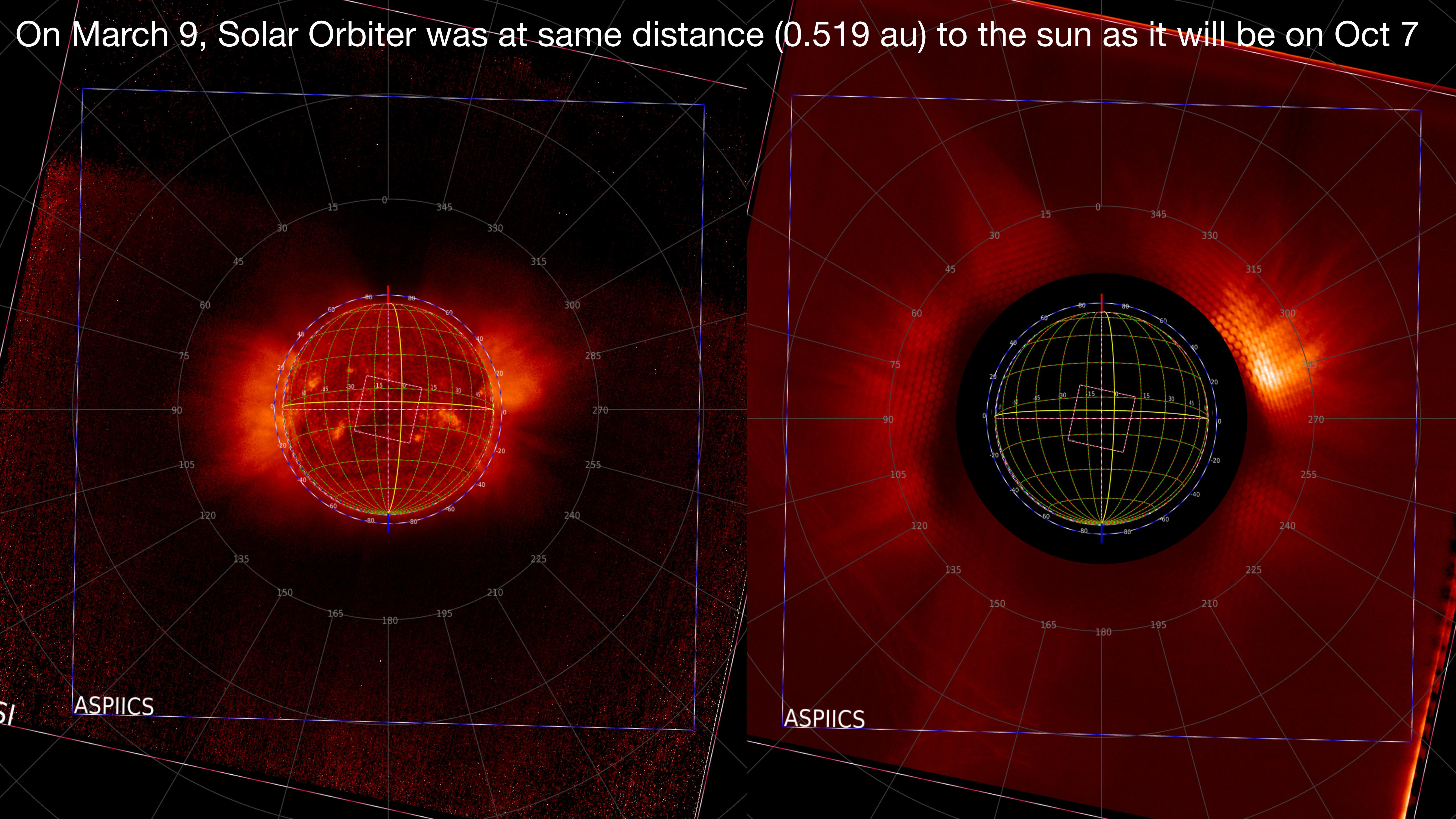
On March 9, Solar Orbiter was at same distance (0.519 au) to the sun as it will be on Oct 7



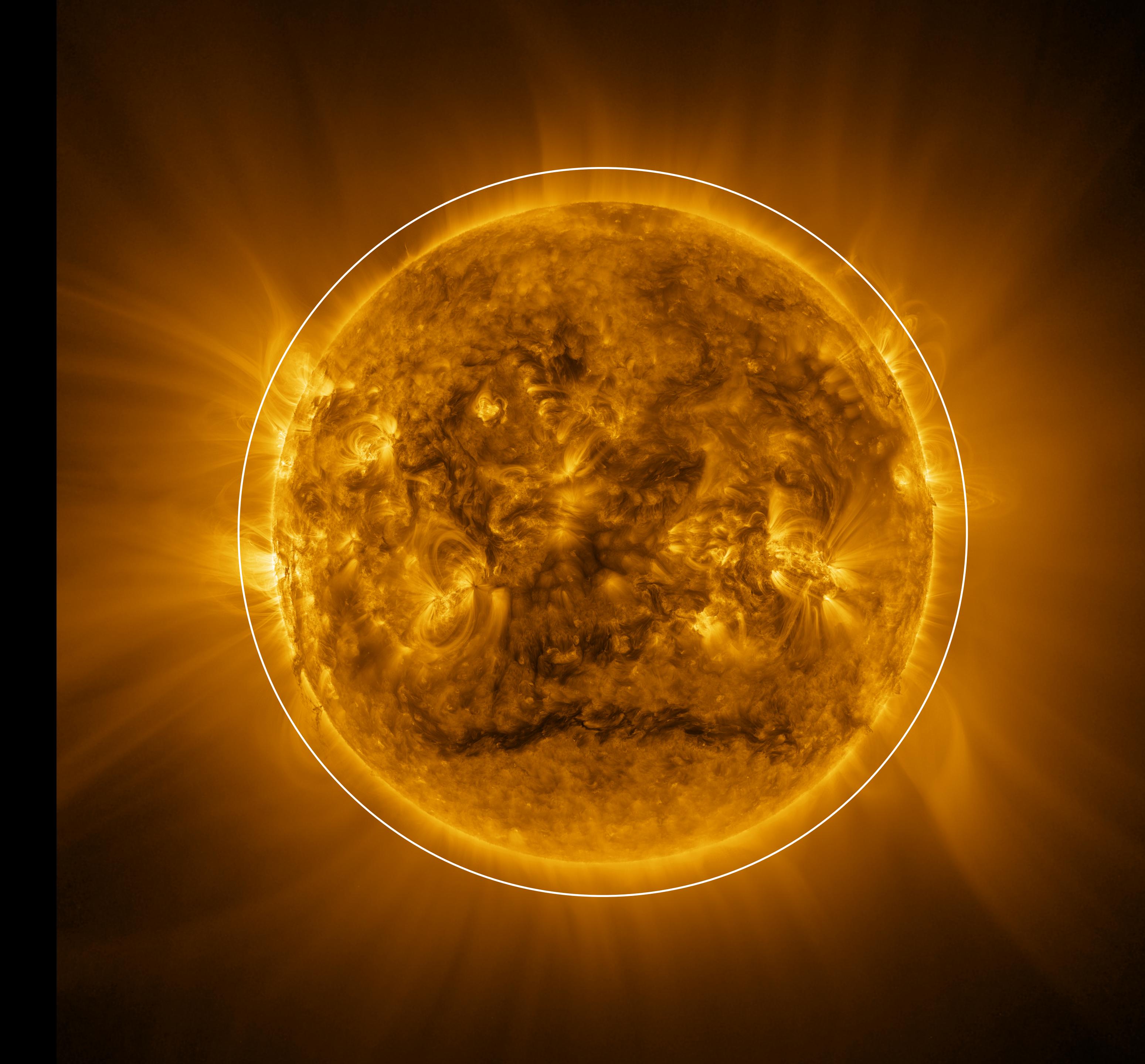
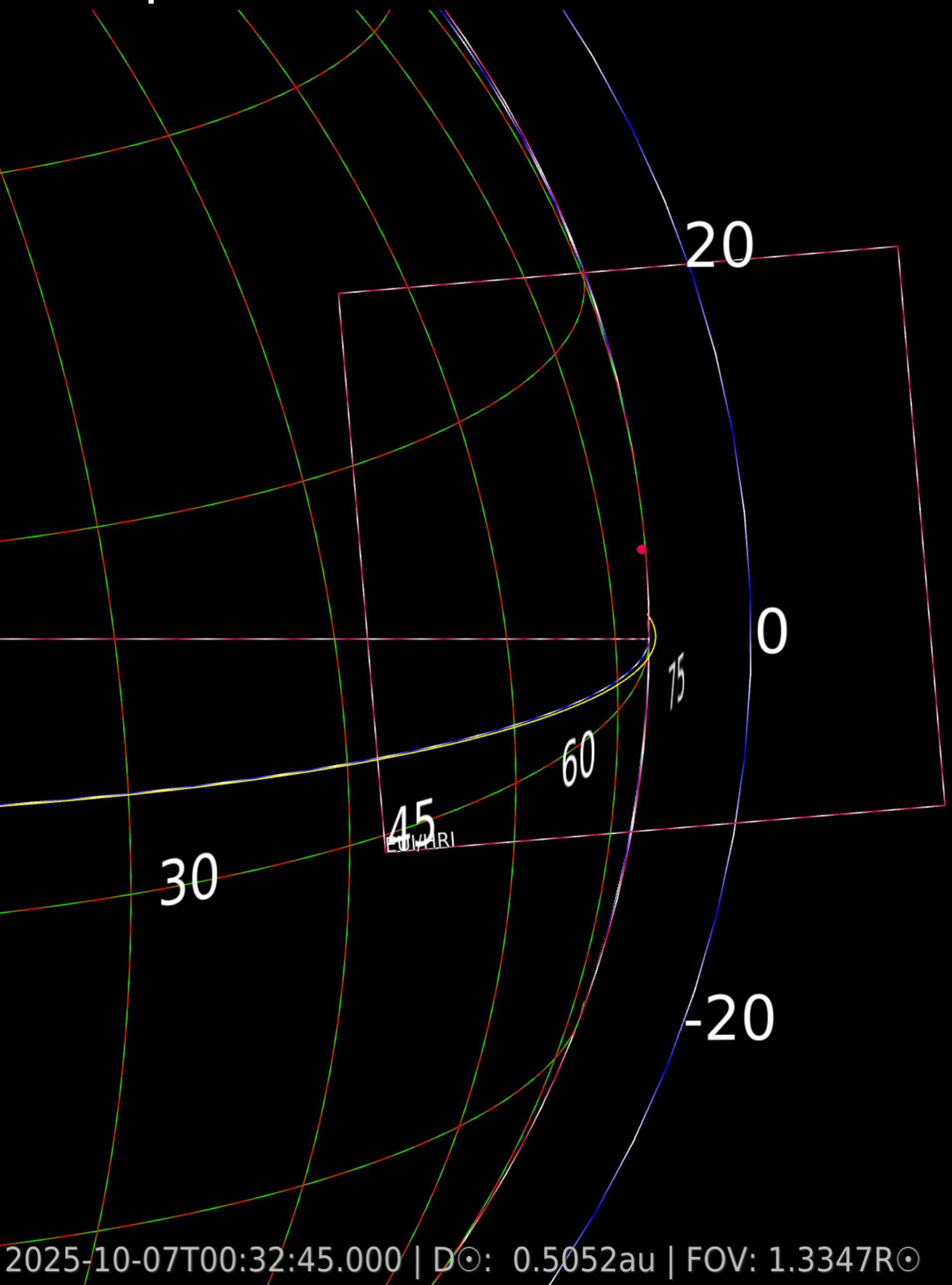
On March 9, Solar Orbiter was at same distance (0.519 au) to the sun as it will be on Oct 7

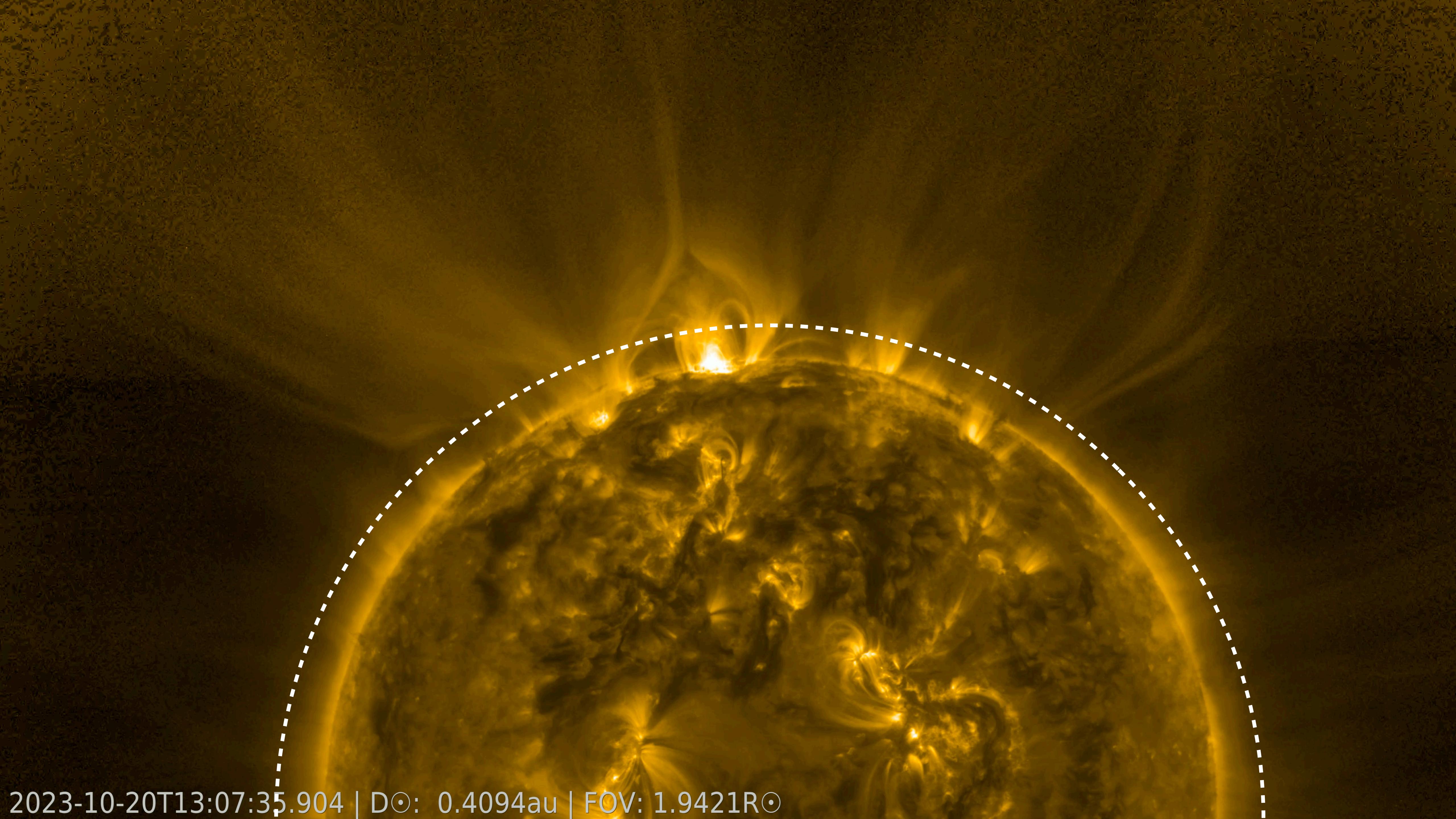


On March 9, Solar Orbiter was at same distance (0.519 au) to the sun as it will be on Oct 7

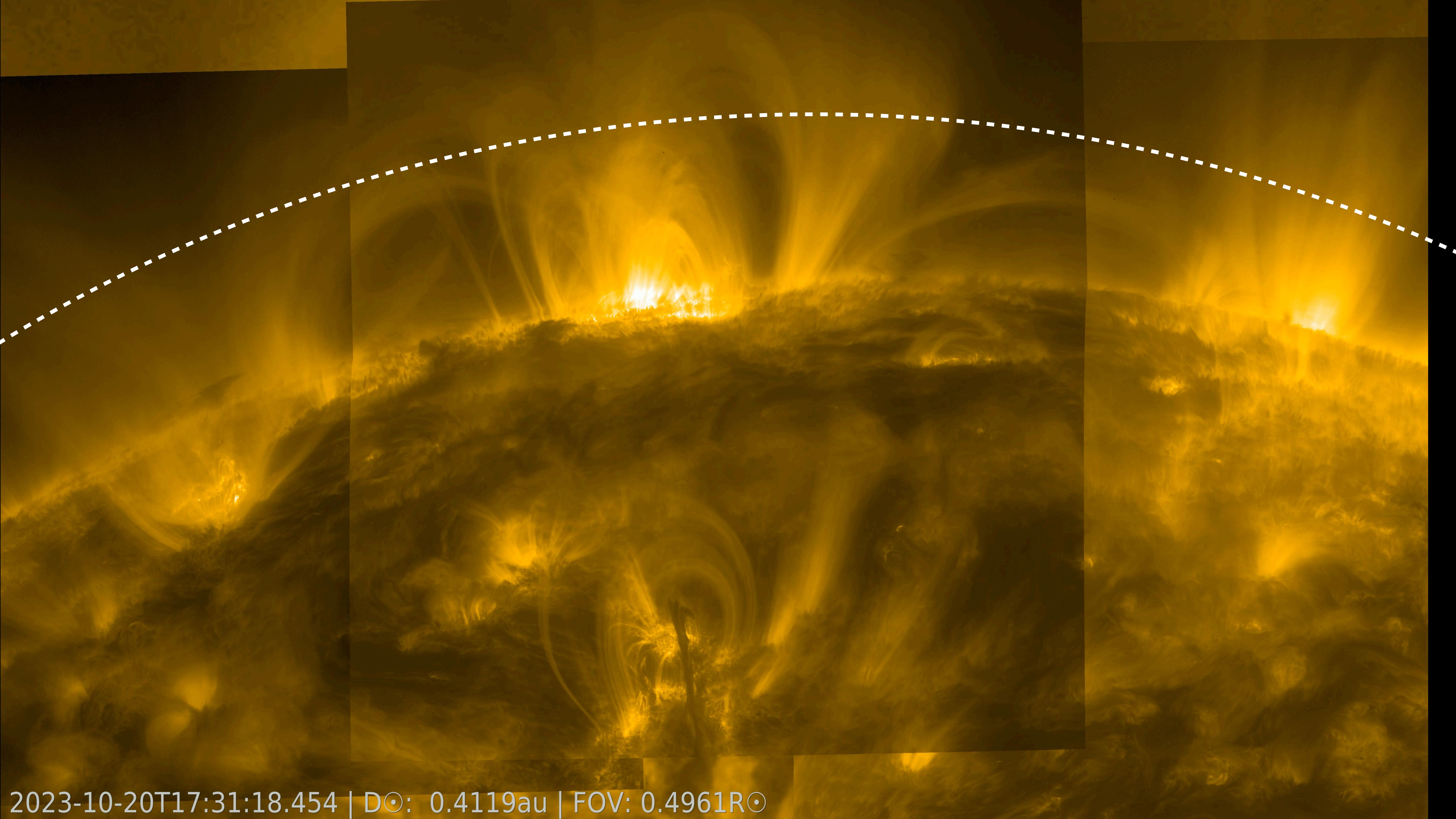


Offpointings possible but they hamper Metis observations

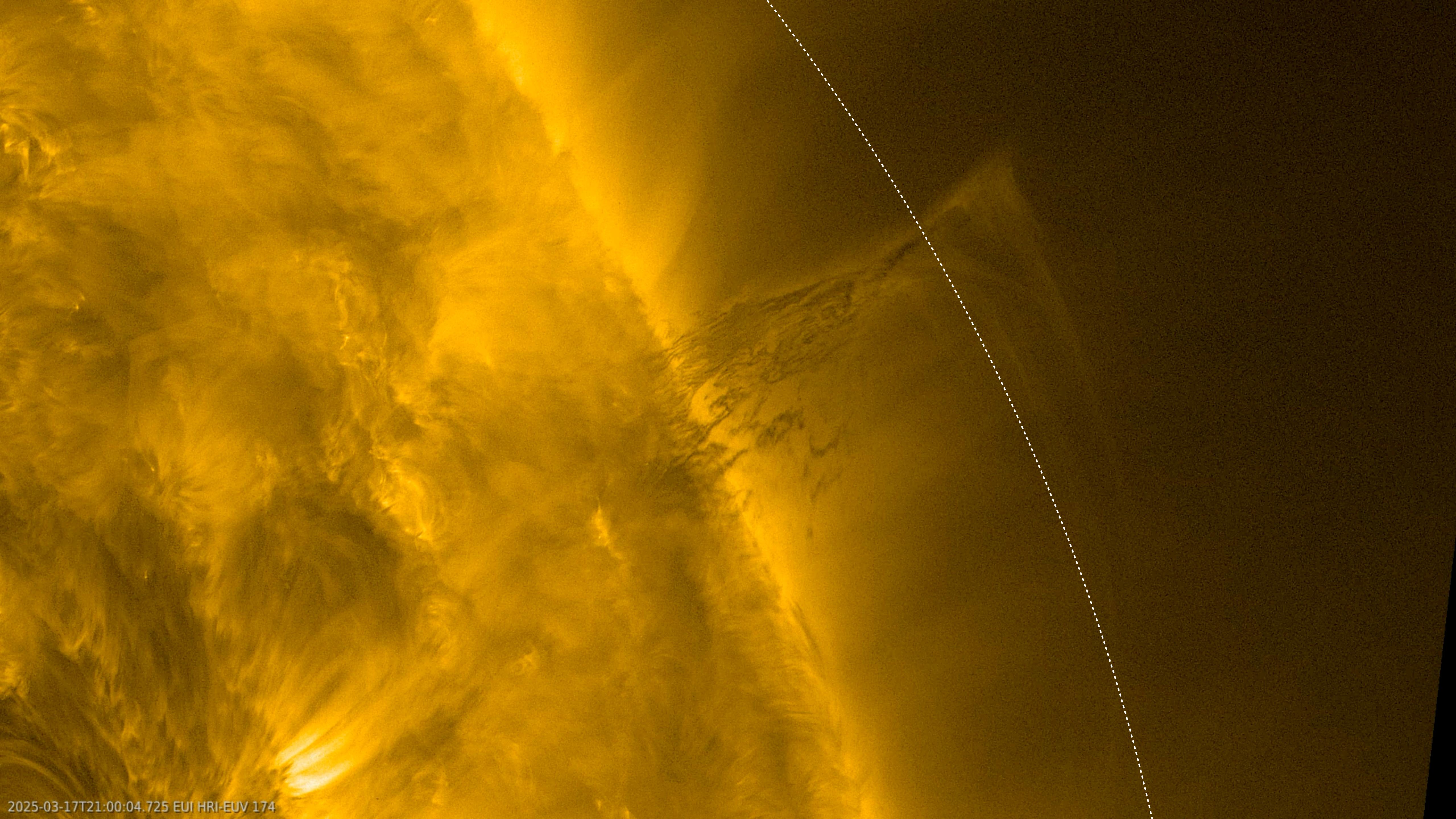




2023-10-20T13:07:35.904 | D \odot : 0.4094au | FOV: 1.9421R \odot



2023-10-20T17:31:18.454 | D \odot : 0.4119au | FOV: 0.4961R \odot

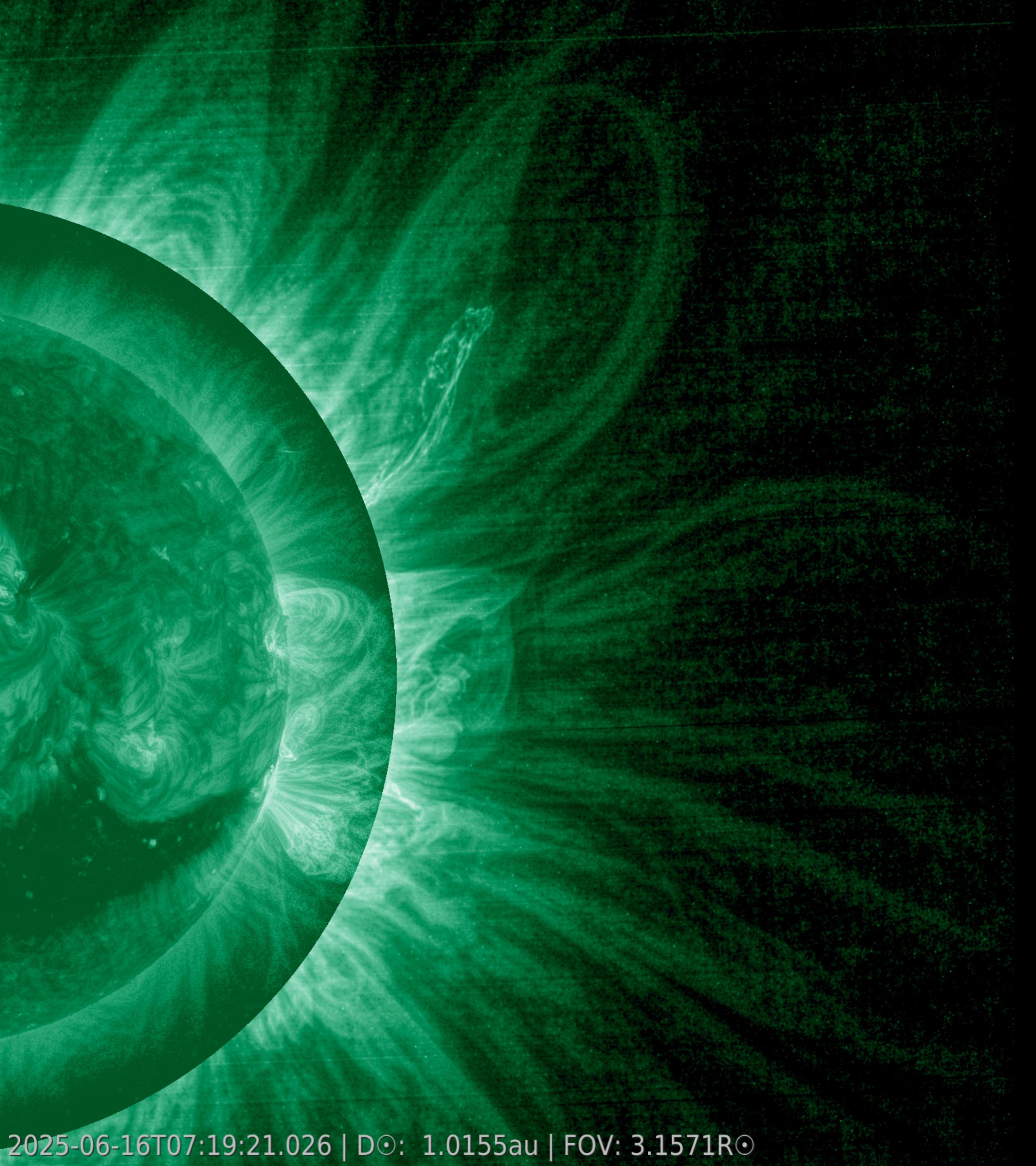


2025-03-17T21:00:04.725 EUI HRI-EUV 174

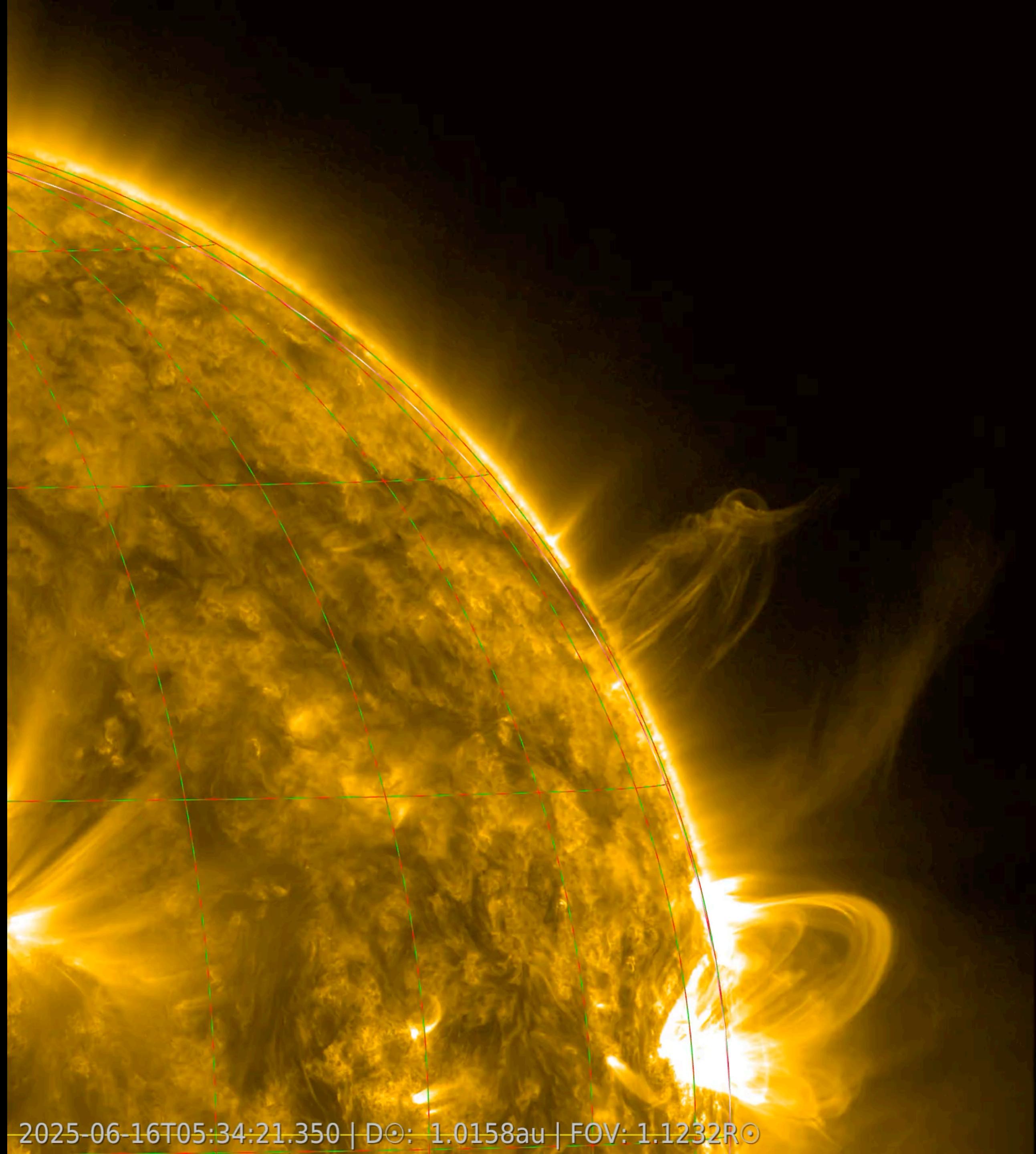
2025 Oct 05 16:01:14	2025 Oct 05 19:01:14	2025 Oct 05 22:01:14		
2025 Oct 06 11:41:00	2025 Oct 06 14:41:00	2025 Oct 06 17:41:00	SolO-P3 near-alignment (9.8 deg, mostly in lat)	3:49:00
2025 Oct 07 07:20:46	2025 Oct 07 10:20:46	2025 Oct 07 13:20:46		5:20:46
2025 Oct 08 03:00:30	2025 Oct 08 06:00:30	2025 Oct 08 09:00:30		1:00:30
2025 Oct 08 22:40:12	2025 Oct 09 01:40:12	2025 Oct 09 04:40:12		

Coronagraphy orbit suggestions for FFAG

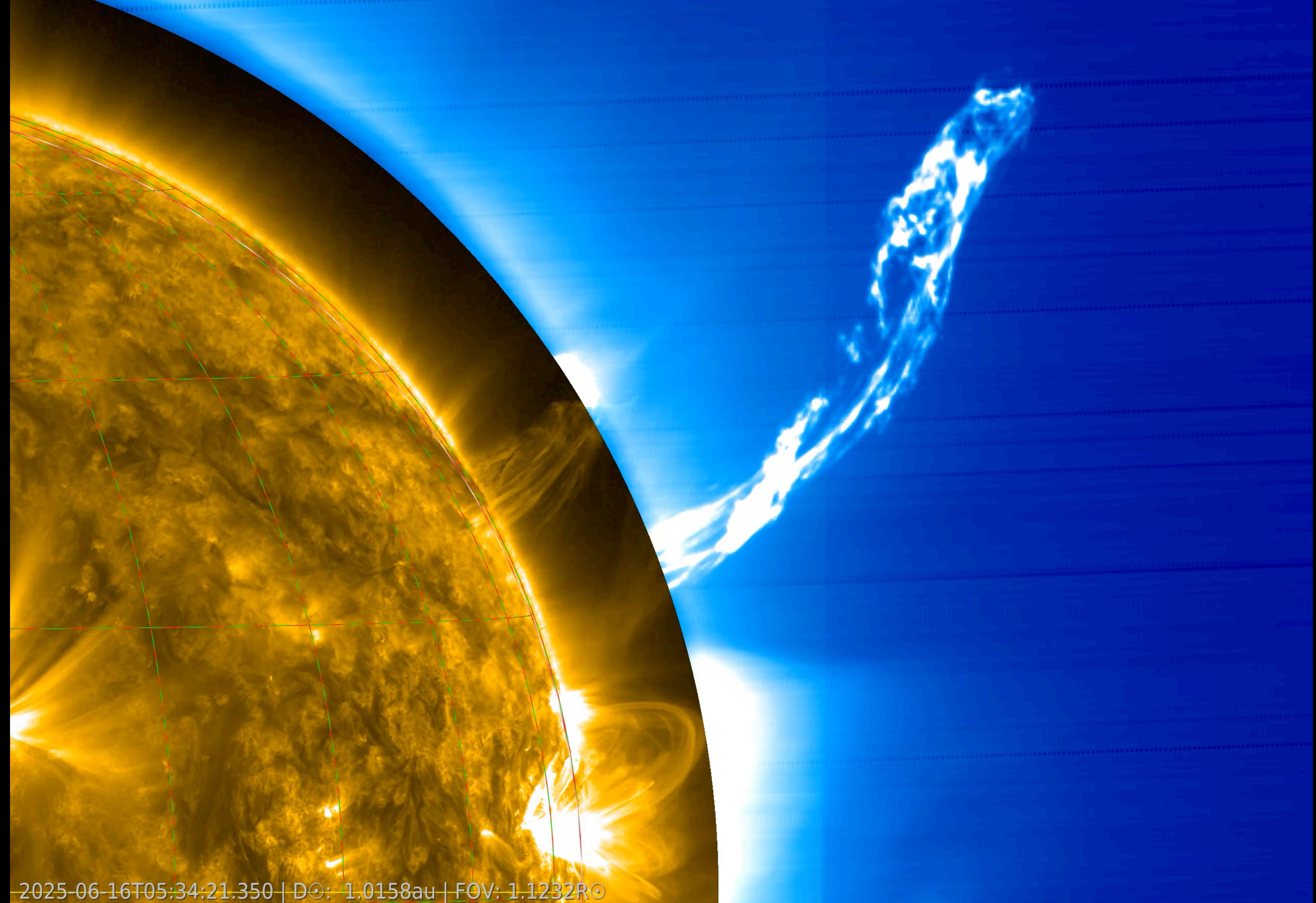
- **Orbit 308 (Aug 14)** and **orbit 309 (Aug 15)**. EUI will take a mix of regular FSI304/FSI174 for low off-limb corona and FSI174-occulted for high off-limb corona. Commands are uploaded July 8.
- **Orbit 346 (Sep 14)** and **orbit 347 (Sep 15)**. EUI will most likely participate in flare hunting and high-cadence active region campaigns.
- **Orbit 373 (Oct 6)** and **Orbit 374 (Oct 7)**. Solar Orbiter aligned with ASPIICS. To be decided what we want to do.



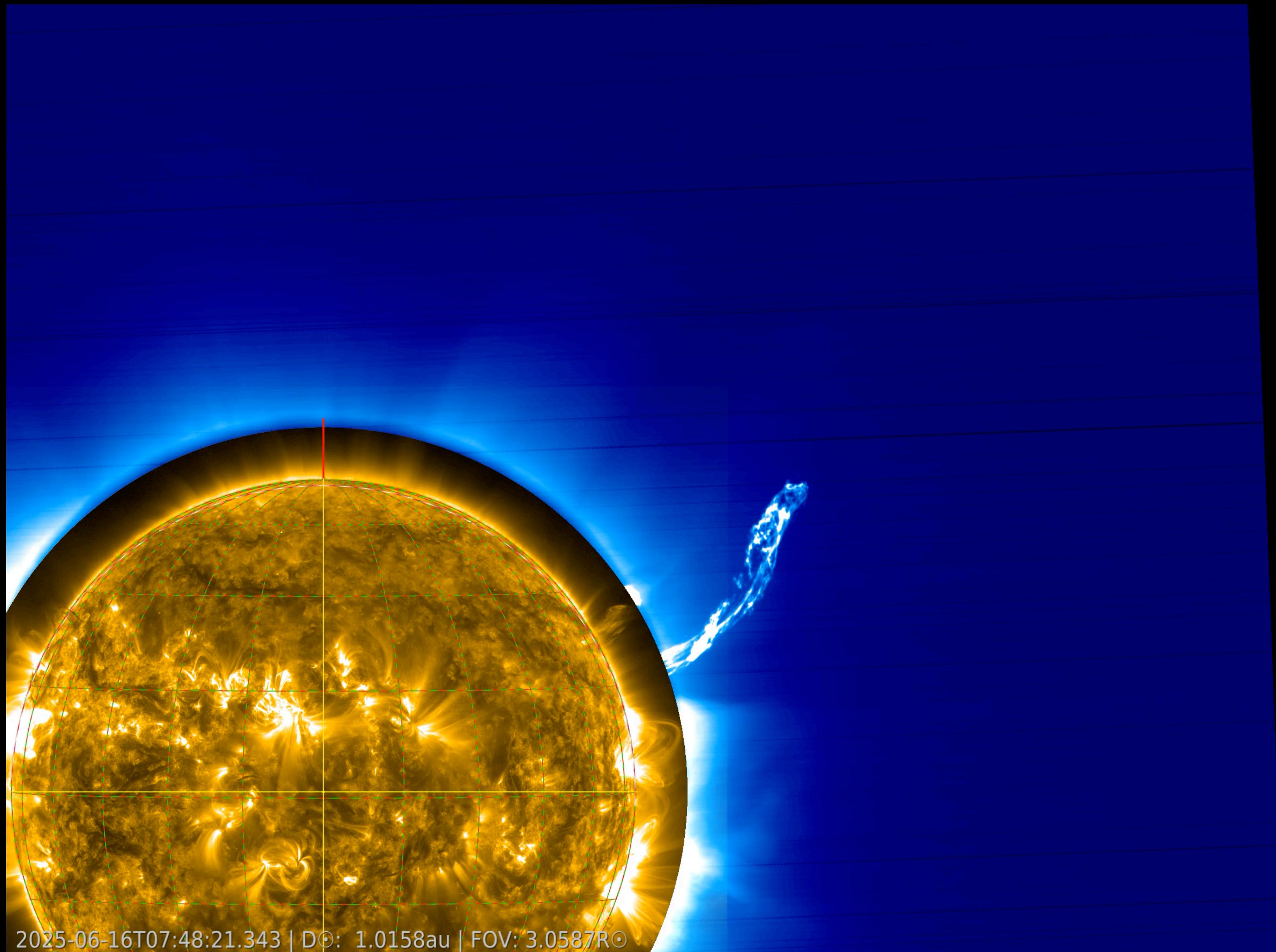
**Erupting Prominence
2025-06-16 Orbit 236**



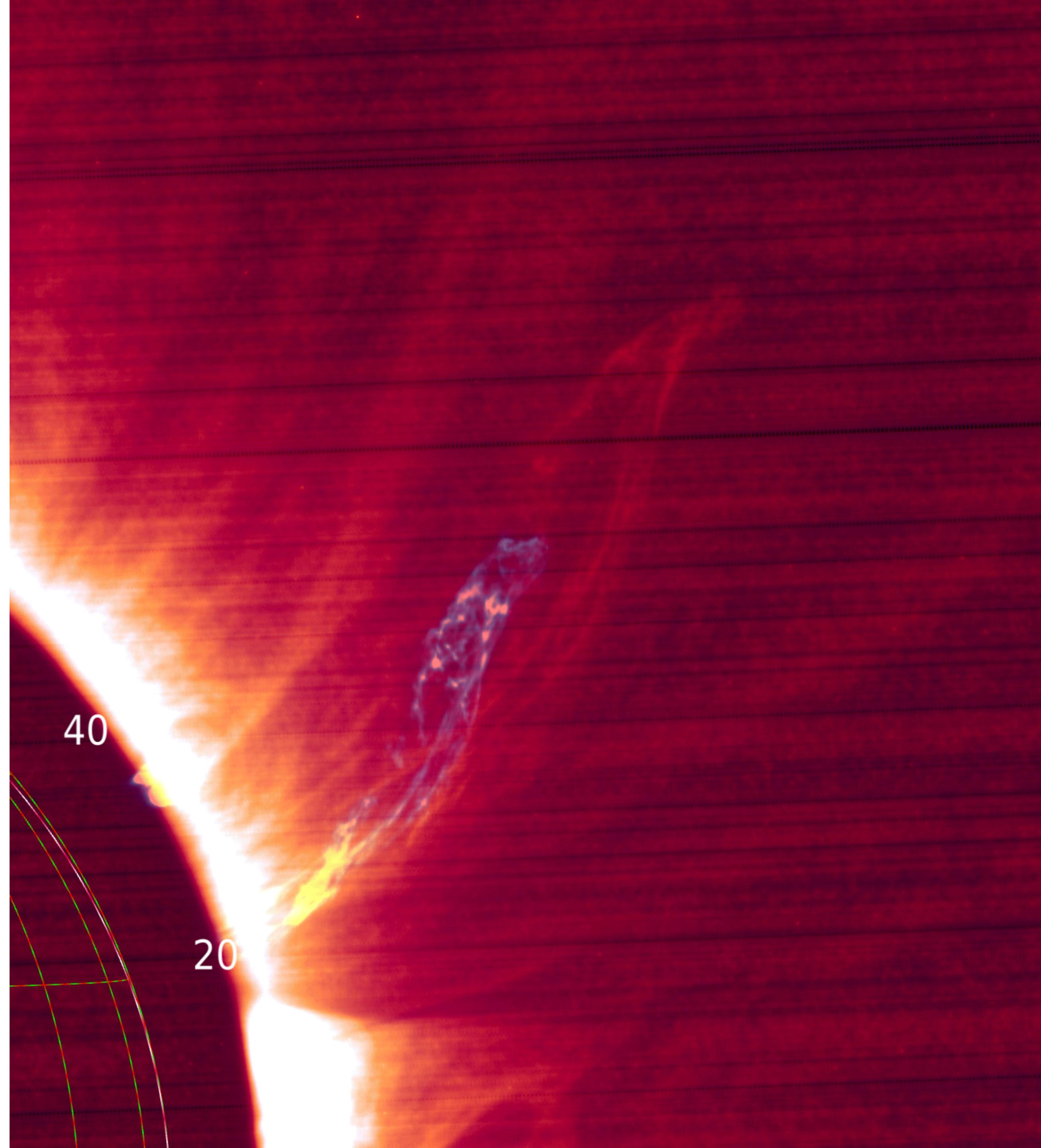
2025-06-16T05:34:21.350 | D \odot : 1.0158au | FOV: 1.1232R \odot

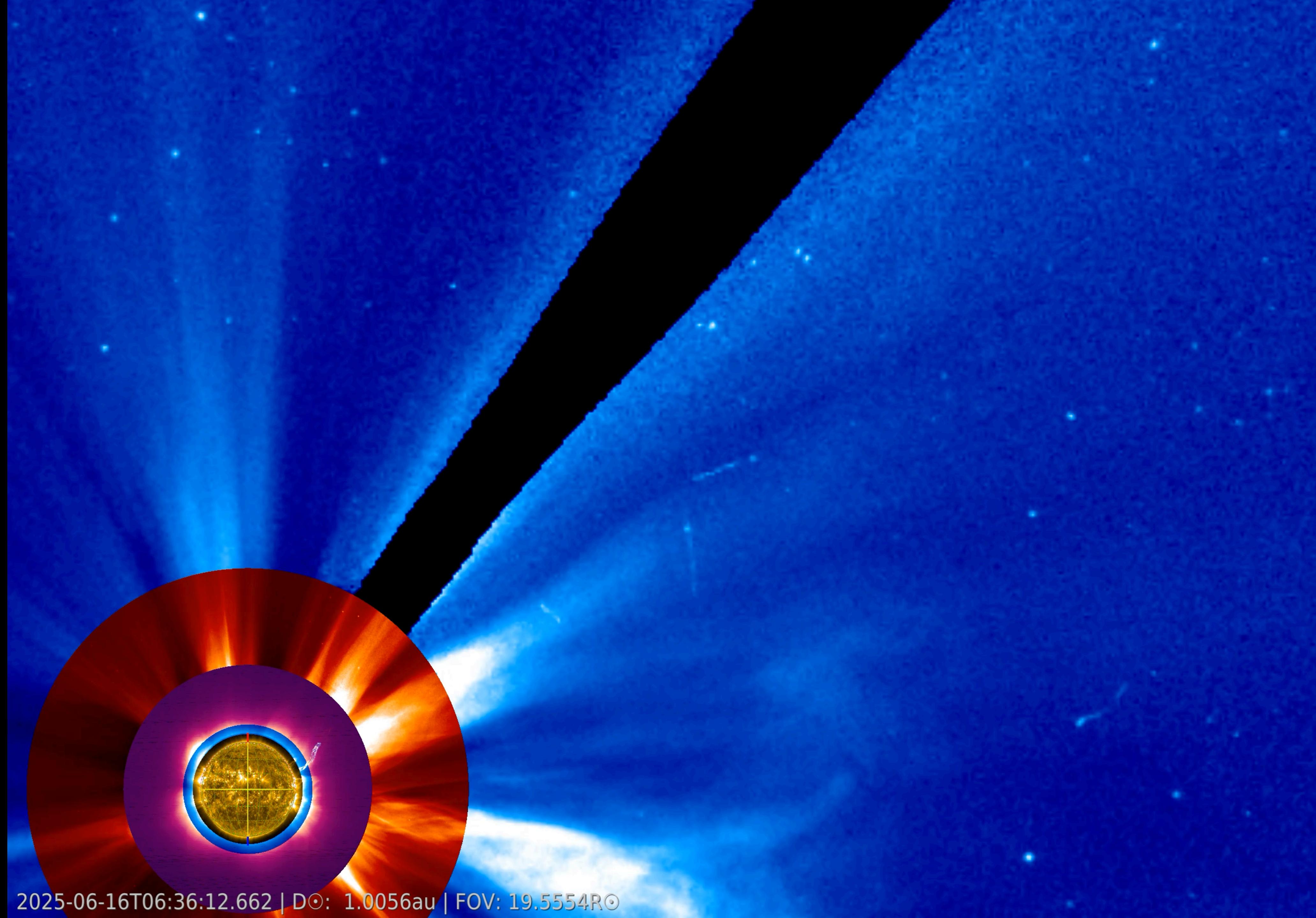


2025-06-16T05:34:21.350 | D \odot : 1.0158au | FOV: 1.1232R \odot



2025-06-16T07:48:21.343 | D \odot : 1.0158au | FOV: 3.0587R \odot





2025-06-16T06:36:12.662 | D \odot : 1.0056au | FOV: 19.5554R \odot

