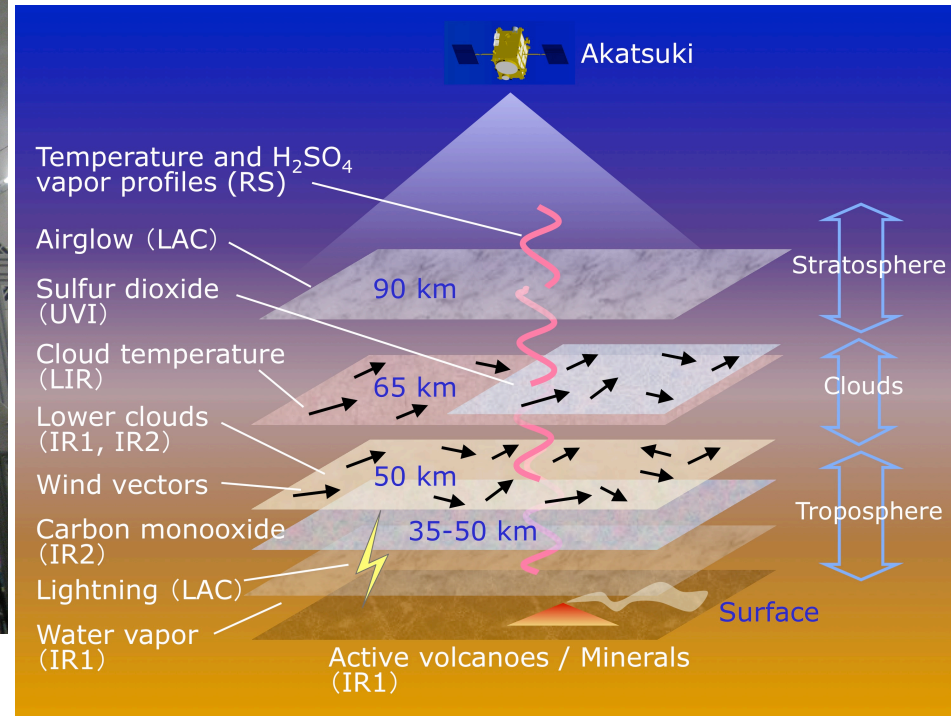
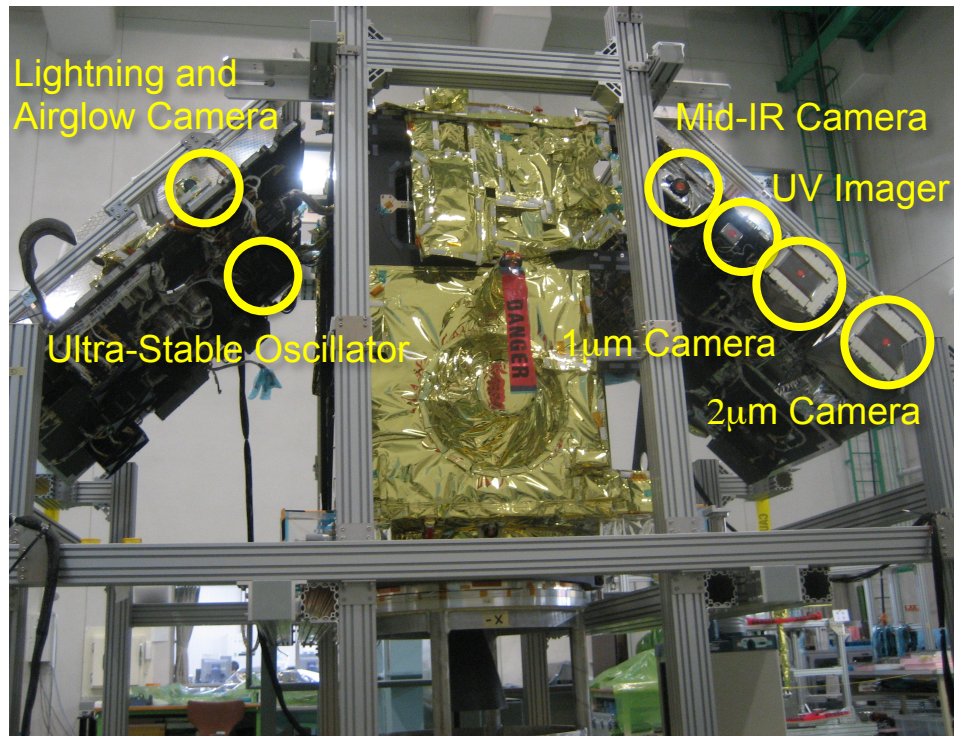
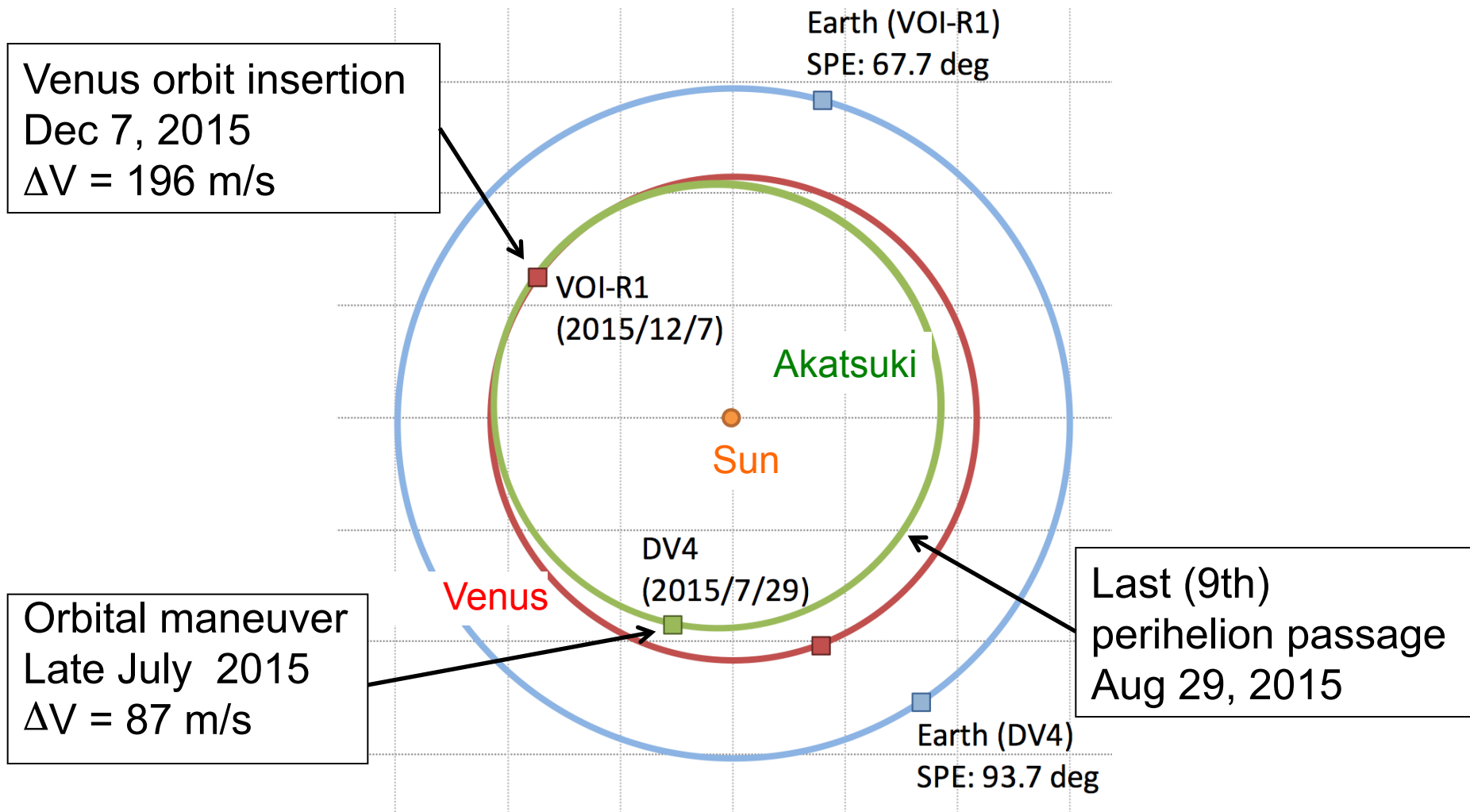


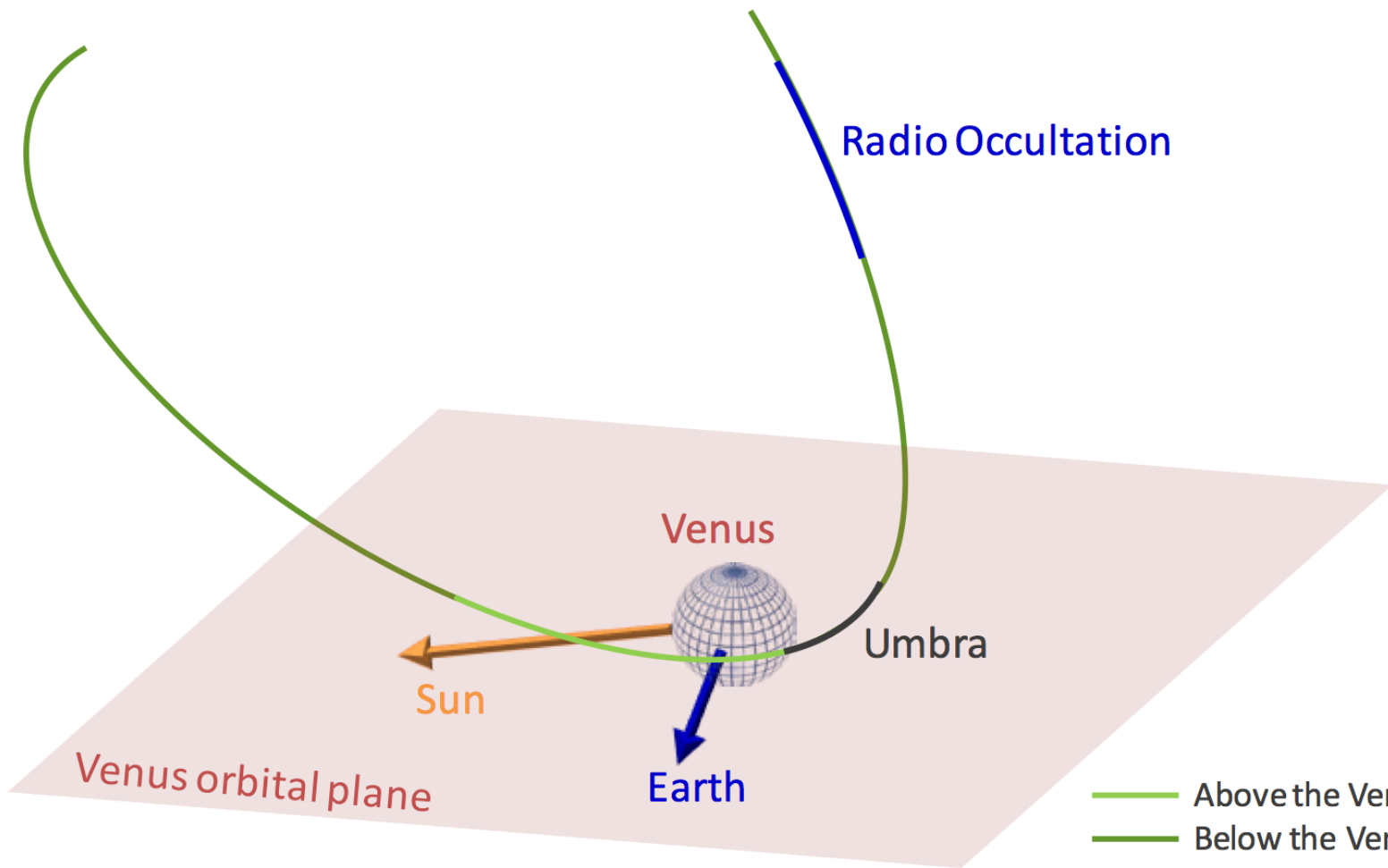
Akatsuki's orbit plan

Takeshi Imamura (JAXA)





Event	Date	ΔV	Apoapsis	Period
DV4	late July, 2015	87 m/s		
VOI-R1	Dec 7, 2015	196 m/s	4.9×10^5 km	16.2 days
VOI-R2	Dec 7, 2015	3 m/s	4.7×10^5 km	15.3 days
PC1	Mar 25, 2016	32 m/s	3.2×10^5 km	8.7 days
PC2	Jun 14, 2017	2 m/s	3.1×10^5 km	8.4 days



Radio Occultation

Venus

Sun

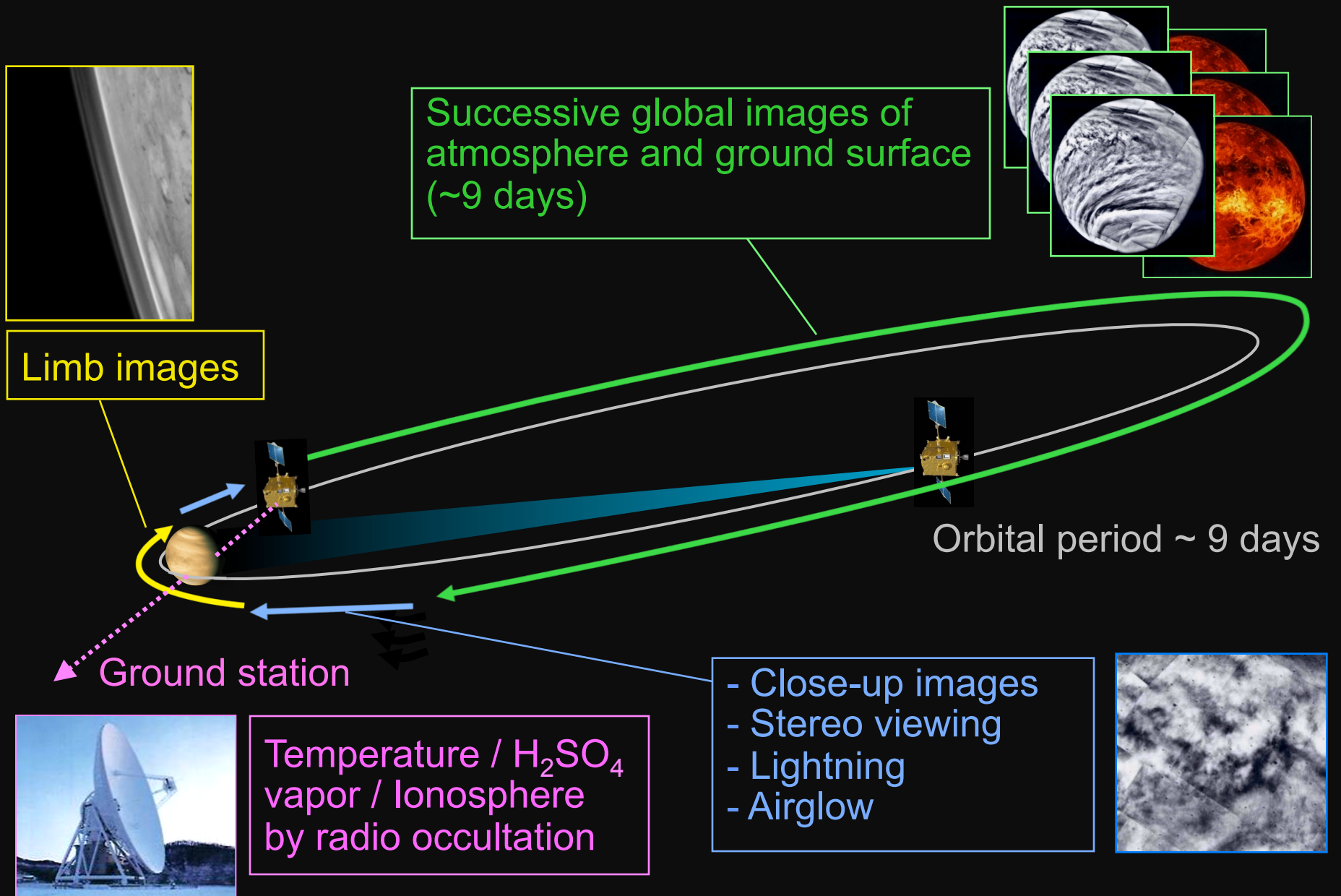
Umbra

Earth

Venus orbital plane

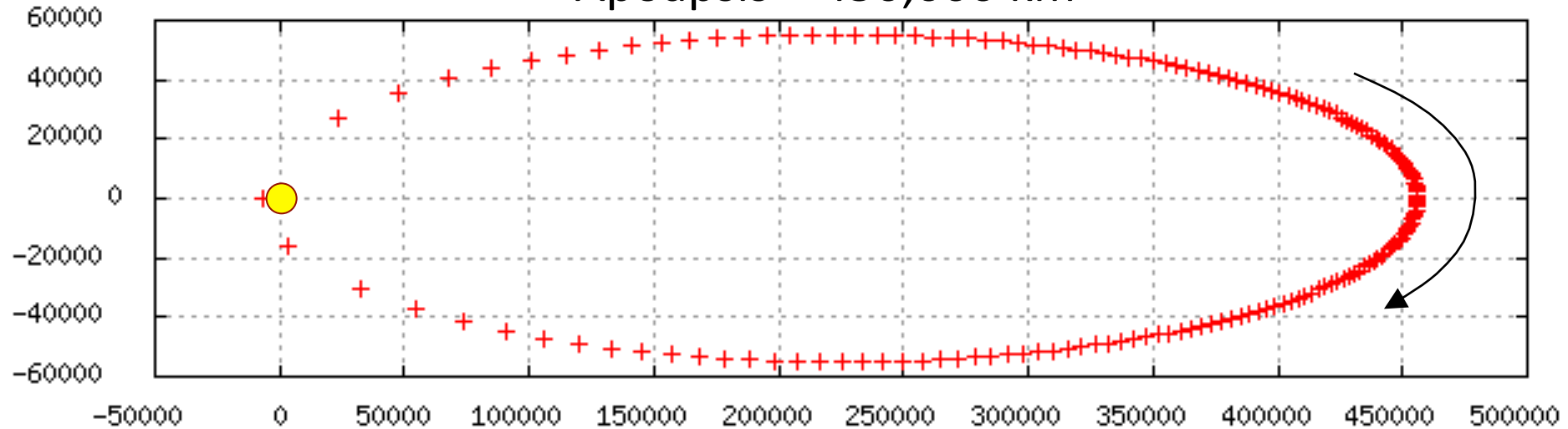
- Above the Venus orbital plane
- Below the Venus orbital plane

Observation plan in the new orbit

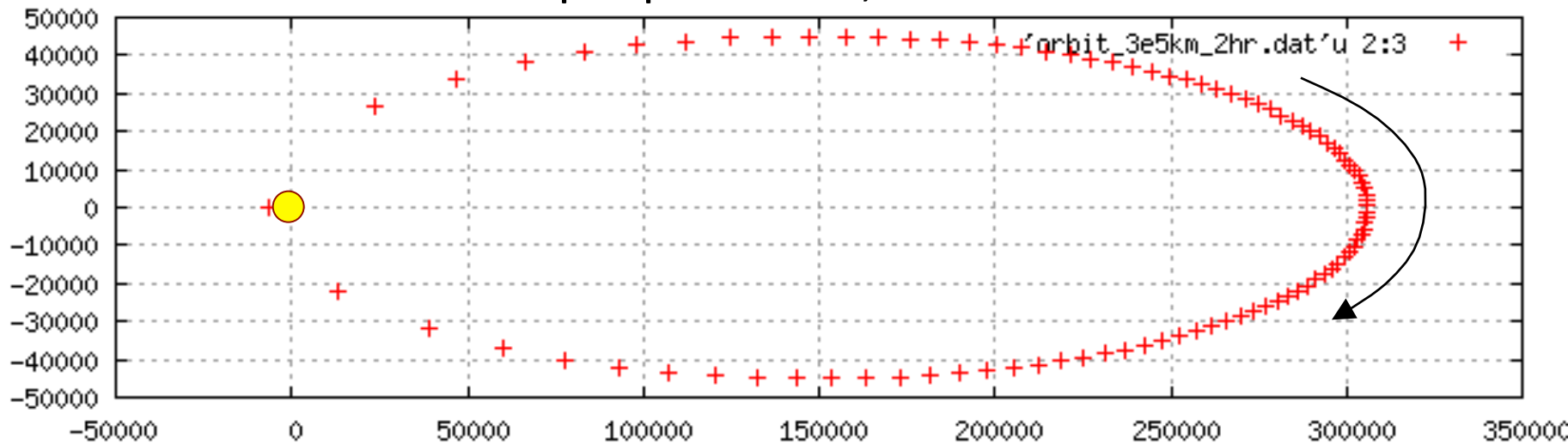


Spacecraft positions at every 2 hours

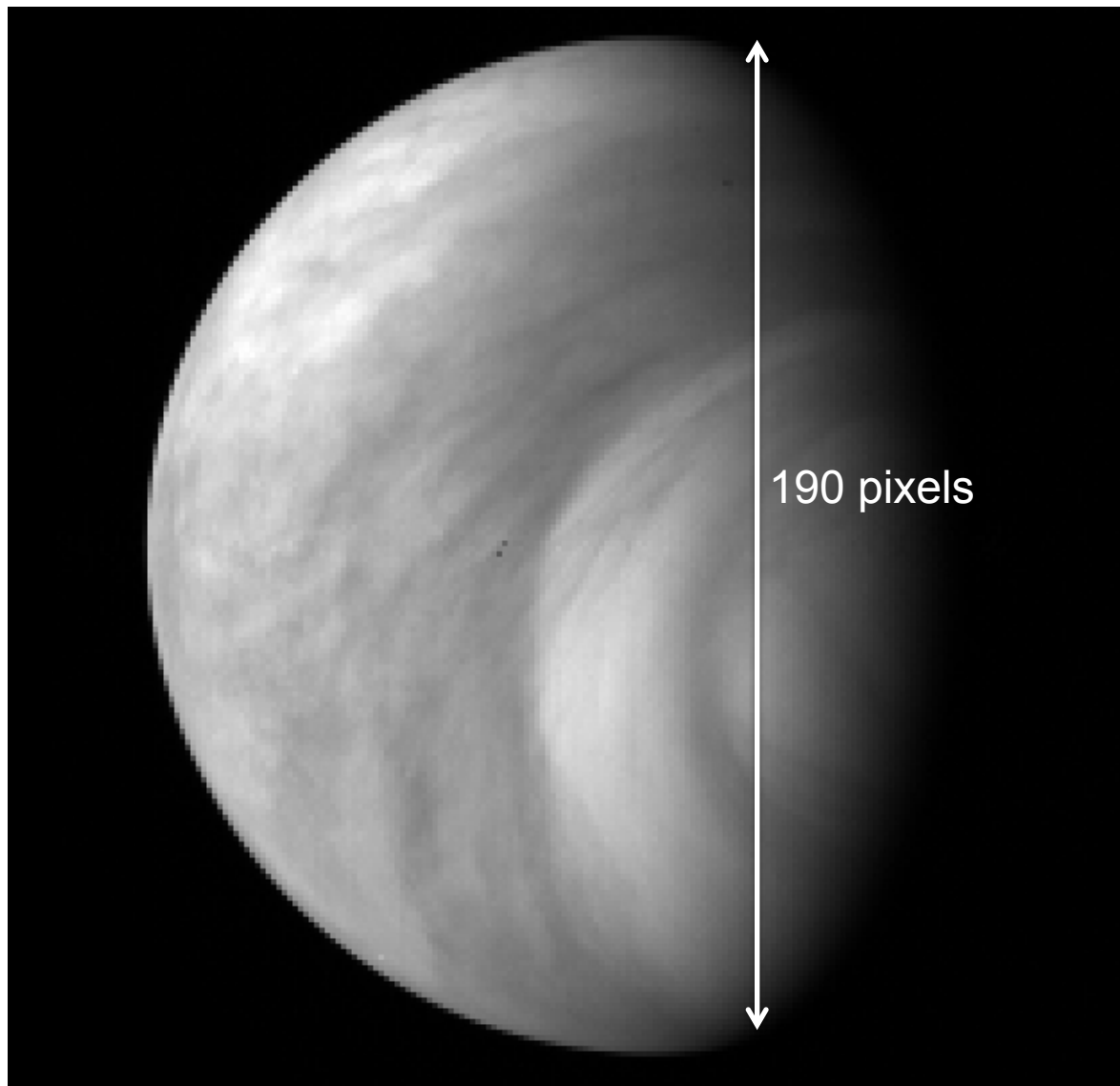
Apoapsis = 450,000 km



Apoapsis = 300,000 km

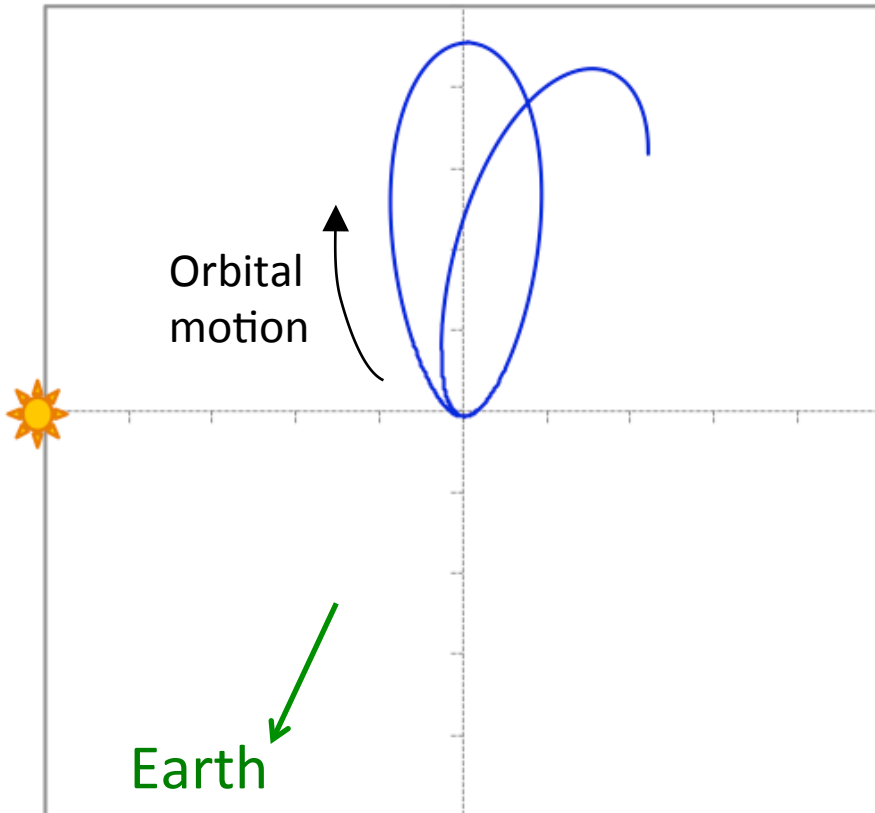


Venus to be seen from Akatsuki's apoapsis
(an equivalent 2x2 binned VMC image)

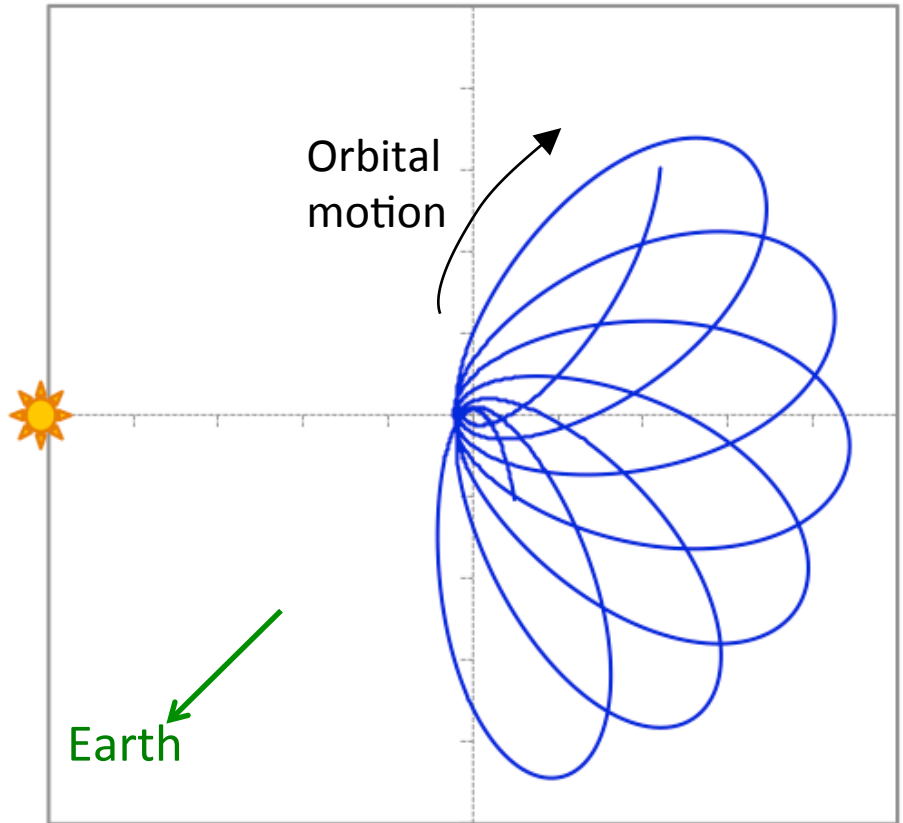


V0470_0048

Dec 7, 2015 (VOI) to Dec 31, 2015
Initial checkout



Jan 1, 2016 to Mar 31, 2016
Initial C/O → Regular obs



Trajectory of Akatsuki in a frame fixed to Venus and Sun
(Center: Venus)

Latitudes to be observed by radio occultation (UDSC+IDSN32)

