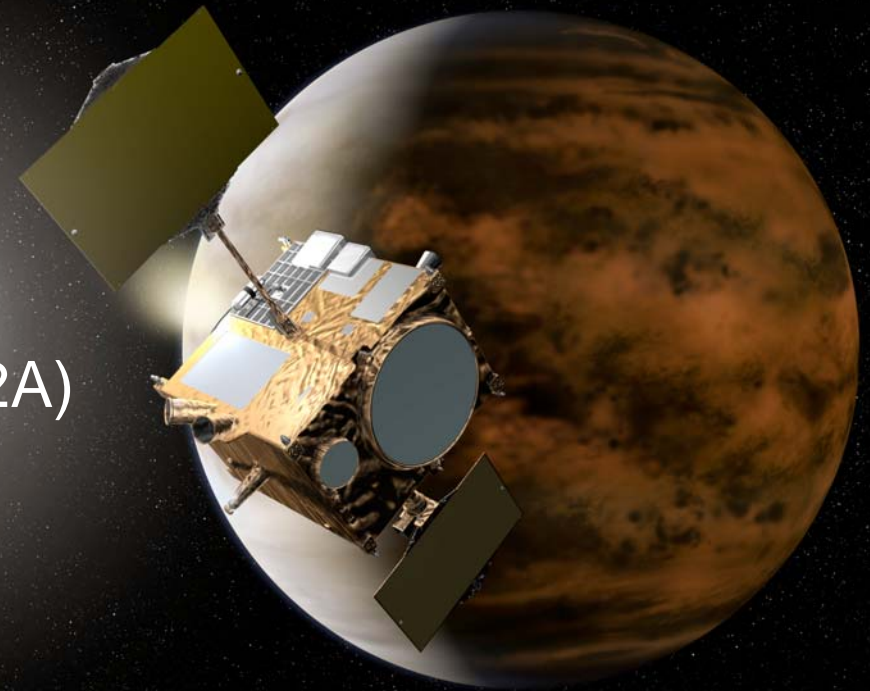


PLANET-C / Venus Climate Orbiter

- Primary target :Meteorology of Venus
 - Mechanism of super-rotation
 - Meridional circulation
 - Meso-scale processes
 - Cloud physics
 - Lightning
- Launch window (Launcher : H-2A)
 - Nominal :May 2010
 - Arrival: December 2010
 - Backup :June 2010
 - Earth swing-by: June 2011
 - Arrival: October 2012
- Mission life :More than 2 Earth years



Scientific Instruments

- 4 cameras covering from ultraviolet to infrared, a high-speed lightning detector, and an ultra-stable oscillator for radio science
- Visualization of 3-D structures of atmospheric dynamics

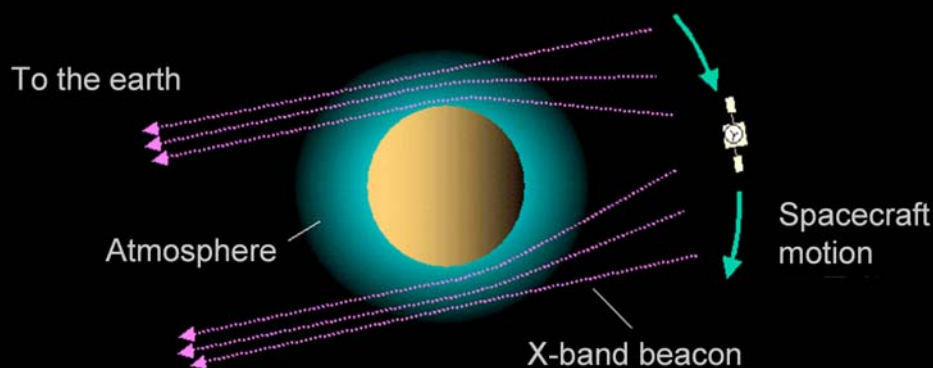
Lightning and airglow camera

Longwave IR camera
(cloud temperature)

Ultraviolet imager
(stratosphere)

1- μm camera
(surface)

2- μm camera
(lower atmosphere)

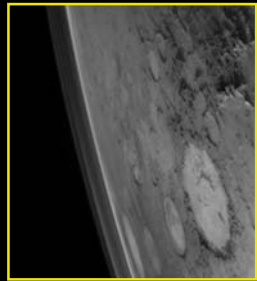


Radio science (vertical structure)

Av. Sanchez

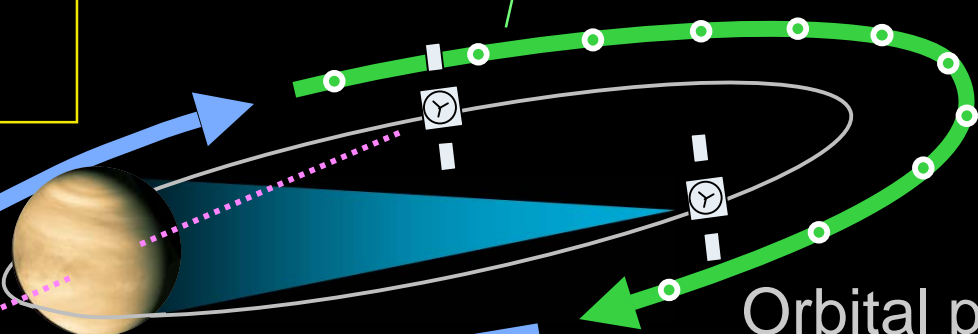
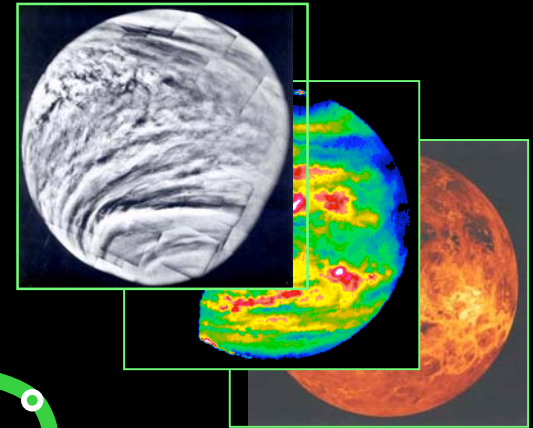
Observation plan

-- Every revolution, More than 2 years --



Limb images
(~0.5 h)

Successive global images
of atmosphere, wind vectors
from cloud-tracking (~24 h)

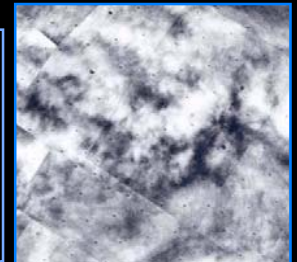


Orbital period: 30 hours

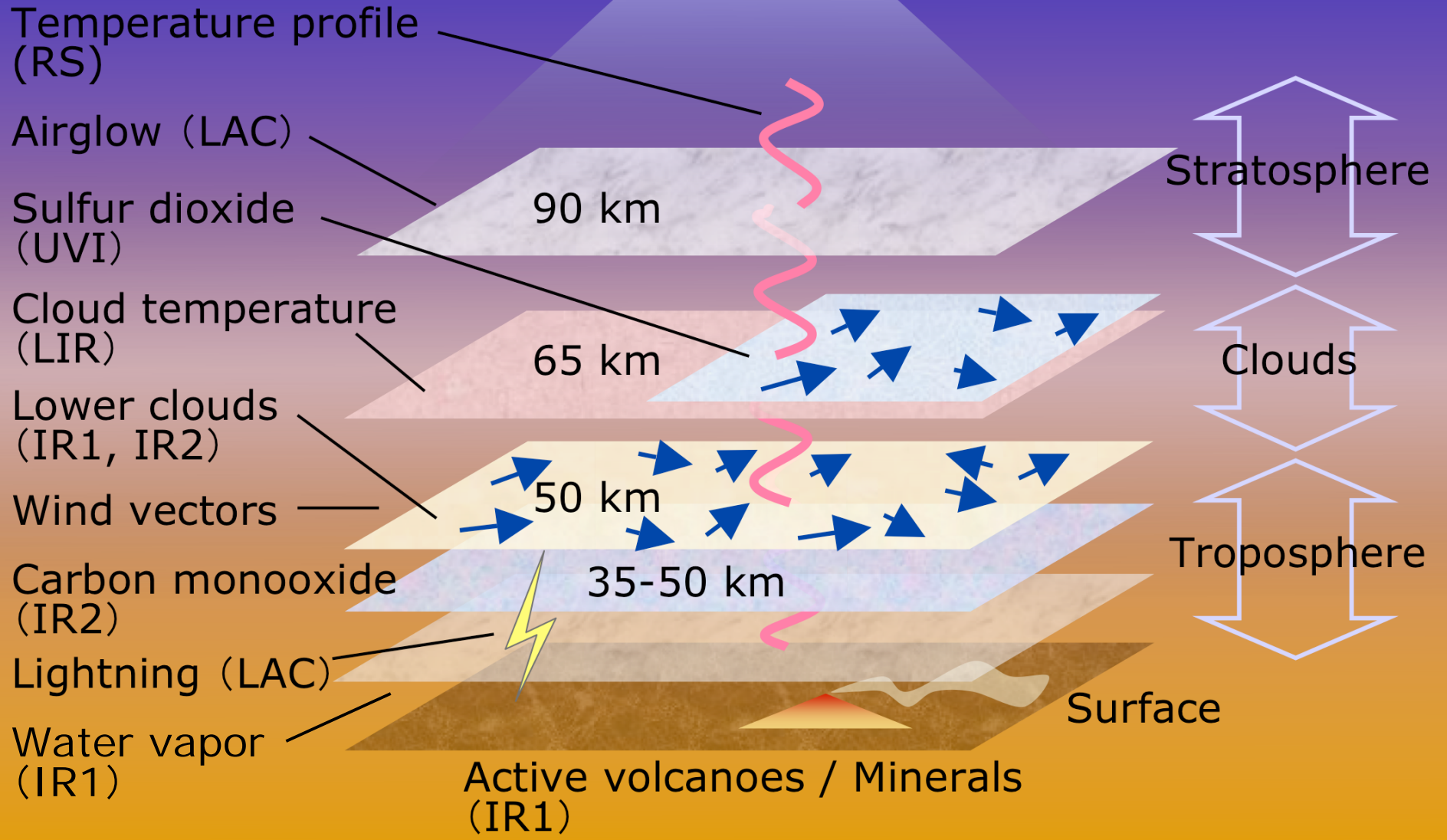


Temperature / H_2SO_4
vapor / Ionosphere
by radio occultation

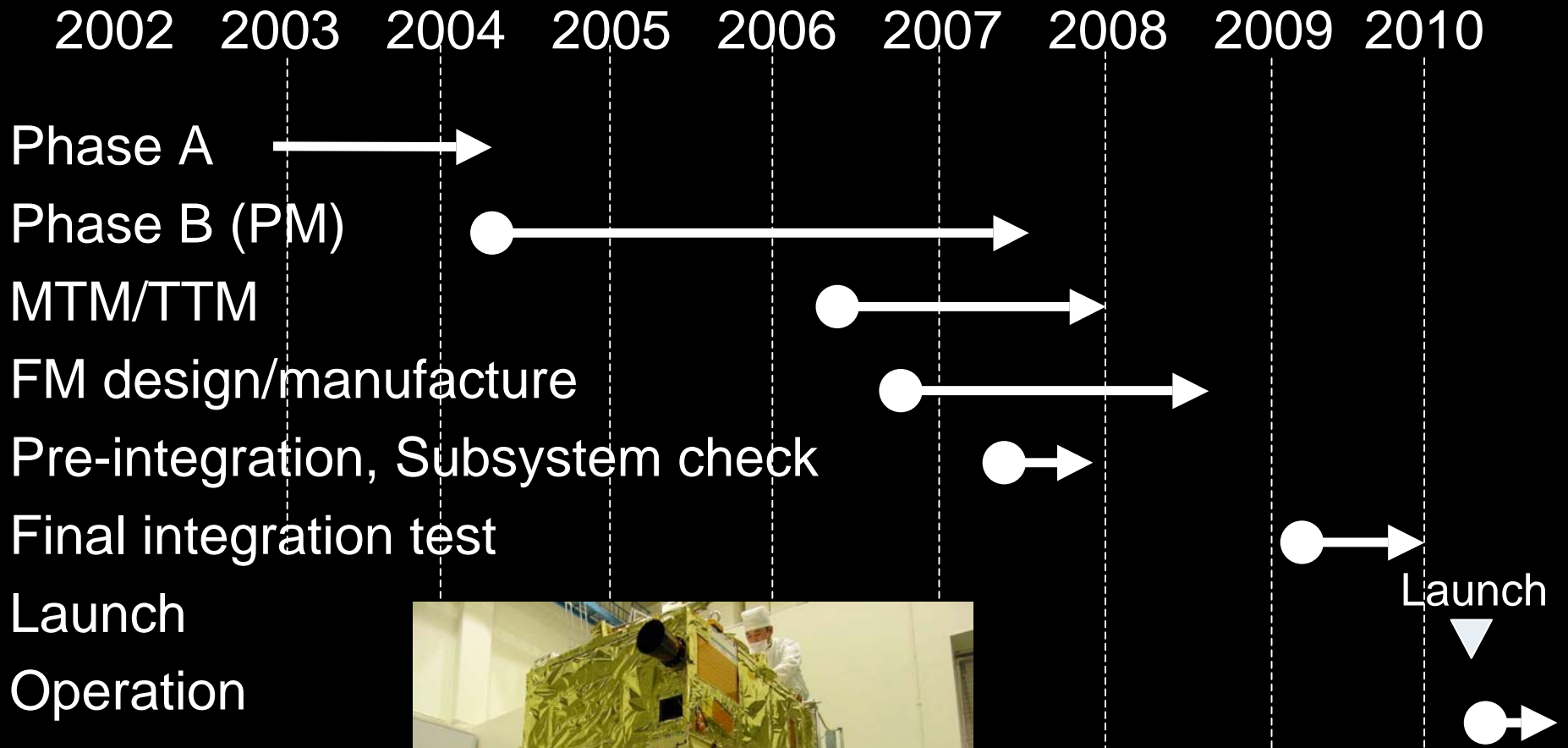
Close-up images/
Lightning/Airglow
(~2 h x 2)



3-D sounding



Schedule



Sep 2008