

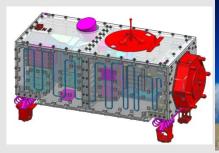
## Mission Summary: Orbit Carbon Observatory 3 (OCO-3)



## **Salient Features**

- Category 3 mission; Risk classification C
- ➤ High-resolution, three-channel grating spectrometer (JPL)
- ➤ Partnership between SMD and HEOMD
- ➤ To deploy on the International Space Station
- ➤ Launch: May 4, 2019
- > Operational Life: 3 years after 90 days in orbit Checkout
- Project Manager: Ralph Basillo, JPL
- ➤ NASA Program Executive: Charles Webb, HQ
- NASA Program Scientist: Ken Jucks, HQ
- ESSP Program Manager: Greg Stover, HQ-LaRC
- ➤ ESSP Mission Manager: Brooke Thornton, HQ-LaRC







## **Primary Mission Objectives:**

Collect the space-based measurements needed to quantify variations in the column averaged atmospheric carbon dioxide (CO2) dry air mole fraction, XCO2, with the precision, resolution, and coverage needed to improve our understanding of surface CO2 sources and sinks (fluxes) on regional scales (≥1000 km).

Measurement precision and accuracy requirements same as OCO-2 Operation on ISS allows latitudinal coverage from 51 deg S to 51 deg N