

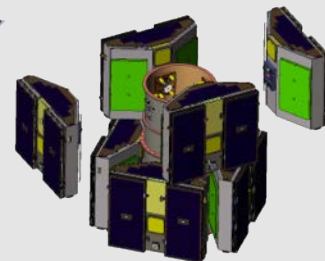
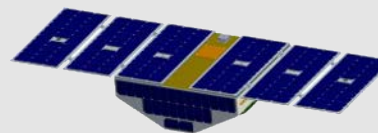


Mission Summary: CYGNSS



Salient Features

- 3 mission; Risk classification D
- Constellation of 8 microsattellites released from a Deployment Module
Payload uses GPS bi-static scatterometry to measure ocean surface wind speed
- Team: Univ. of Michigan (UM) –Prime contract and PI Institution
Southwest Research Institute (SwRI) –Implementing organization
Surrey Satellite Technology (Surrey) –Payload provider
Sierra Nevada Corporation–Deployment Module (DM) provider
- Launch Date: December 15, 2016
- EoPM: March 2019; Currently in extended mission
- Principal Investigator: Dr. Chris Ruf (UM)
- Project Manager: John Scherrer (SwRI)
- NASA Program Executive: Charles Webb, HQ
- ESSP Program Manager: Greg Stover, HQ-LaRC



CYGNSS Science Goal: To understand the coupling between ocean surface properties, moist atmospheric thermodynamics, radiation and convective dynamics in the inner core of a Tropical Cyclone (TC).

Primary Objectives:

1. Measure ocean surface wind speed in all precipitating conditions, including those experienced in the TC eyewall.
2. Measure ocean surface wind speed in the TC inner core with sufficient frequency to resolve genesis and rapid intensification.