



Unmanned Aerial Systems in Earth Sciences

AirCTEMPs



December 11th 2016

- 8:00 to 8:45** Registration, light breakfast, and coffee [Braun Hall, Building 320]
- 8:45 to 9:00** Introduction to the workshop - **Michael Wing**
- 9:00 to 9:15** Overview of UAS history - **Michael Wing**
- 9:15 to 9:45** Regulatory flight environment in the US - **Michael Wing**
- 9:45 to 10:30** UAS platforms and applications - **Michael Wing**
- 10:30 to 11:00** Coffee break and UAS equipment display.
- 11:00 to 11:45** An overview of UAS sensors - **Marja Haagsma**
- 11:45 to 12:15** UAS Operations I: Basics of safety and aircrew responsibilities - **Henry Pai**
- 12:15 to 1:00** Lunch with CTEMps / DTS in Earth Science Workshops
- 1:00 to 1:15** AirCTEMPs and you: how to plan, execute, and archive data with CTEMps- **Michael Wing**
- 1:15 to 2:15** Photogrammetry using Photoscan - Introduction and workflow - **Henry Pai**
- 2:15 to 3:00** UAS operations II: Ground control points and georeferencing - **Michael Wing**
- 3:00 to 4:00** UAS operations III: Planning a complete mission based on UAS speed, GPS waypoints, and battery management - **Henry Pai**
- 4:00 to 4:30** Wrap discussions and evaluations - **Michael Wing**