# 800 EARTH SCIENCE AND TECHNOLOGY DIRECTORATE

James Graf, Director
Randall Friedl, Deputy Director
Parag Vaze, Assistant Director
Duane Waliser, Directorate Scientist
Michelle Gierach, Associate Directorate Scientist (AD)
Jason Hyon, Directorate Technologist
Associate Directorate Technologist, Vacant
Daniel Limonadi, Chief Systems Engineer
Kent Kellogg, Directorate Engineer (AM)
Cathy Thomer, Directorate Executive Assistant
Faith Tapia, Directorate Staff Assistant

**801** Business Administration Office — Brett Ramaker

**803** Business Operations Office — Marco Villa

**805** Technology Advisory Council — Jason Hyon (AD)

**830** Earth Science Research & Mission Formulation Office — Frank Webb, Sharon Kedar (DM)
- **831** Science Research & Concept Development — Felix Seidel
- **832** Technology Research & Concept Development — Eastwood Im
- **833** Applied Sciences Research — Kimberly Miner (AD)
- **834** Mission Applications — Vacant
- **835** Western Water Applications — Stephanie Granger (AD)

**840** Multi-Angle Imager for Aerosols — Kevin Burke
- **850** Investigation of Convective Updrafts — Yunjin Kim

**855** Surface Water Ocean Topography — Parag Vaze, Said Kaki (DM)
- **8580** Copernicus Climate Support — Parag Vaze (AD)
- **860** Sentinel-6 — Parag Vaze (AD), John Oswald (DM)

**865** Synthetic Aperture Radar Mission — Phil Barela, Wendy Edelstein (DM)
- **866** Atmosphere Observing Systems (AOS) — Simon Collins (AM)
- **867** Surface Biology And Geology Visible Short-wave Infrared (SBG-VSWIR) — Amit Sen
- **868** Surface Biology And Geology Thermal Infrared (SBG-TIR) — Ralph Basilio
- **869** GRACE-C — Mike Gross

**870** Earth Science Instruments & Technology Office — Gary Lau, Kirk Seaman (DM AD)
- **871** Instrument Technology & Test Beds — Eastwood Im (AD)
- **872** Sub-Orbital Instruments — Lance Christensen (AD)
- **874** Airborne Program Office — Lance Christensen (AD)
- **876** NTS-3 Experiment — Yoaz Bar-Sever (AD)
- **877** HPSC — Jim Butler (AD)
- **879** CPM — Kirk Seaman

**880** Earth Science Missions Office — Mark Fujishin, Deborah Vane (DM)
- **88A** AIRS — Thomas Pagano (AD)
- **88B** ASTER — Bjorn Eng (AD)
- **88C** MISR — Earl Hansen (AD)
- **88D** MLS — Scott Gluck (AD)
- **88E** Earth Surface Mineral Dust Source Investigation (EMIT) — Charlene Ung
- **88F** ECOSTRESS — Dana Freeborn (AD)
- **88H** COWVR — Amarit Kitiyakara (AD)
- **88I** JASON-3 — Glenn Shirtliffe (AD)
- **88J0** PREFIRE — Mary White (AD)
- **88L0** GRACE FOLLOW-ON — Rob Gaston
- **88M** OCO-2 MISSION — Mona Witkowski (AD)
- **88N** OCO-3 MISSION — Cecila Chang (AD)
- **88P** COSMIC-2 — Jeffrey Tien (AD)
- **88R** SMAP — Mark Garcia (AD)
- **88S** S6MF Ops — Glenn Shirtliffe (AD)

**883** Earth Data Science & Technology — Lukas Mandrake

**885** Integrated Earth Mission System Office — Jennifer Cruz
- **8851** Observational Products for End Users — David Bekaert (AD)
- **8852** Physical Oceanography Distributed Active Archive Center — Suresh Vannan

**890** Earth Systematic Missions Program Office --JPL — Steven Bard, Brian Cooke (DM), Ralph Basilio (PM-C)

**LEGEND**
AD – Additional Duty
AM – Acting Manager
DM – Deputy Manager
DPI – Dep. Principal
PS – Project Scientist
TBD – To Be Determined
PM-C – Program Manager for Competed Missions

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