



NPS-CIRPAS Airborne Research Facility

SCOAR Meeting Update – 13Jan2022

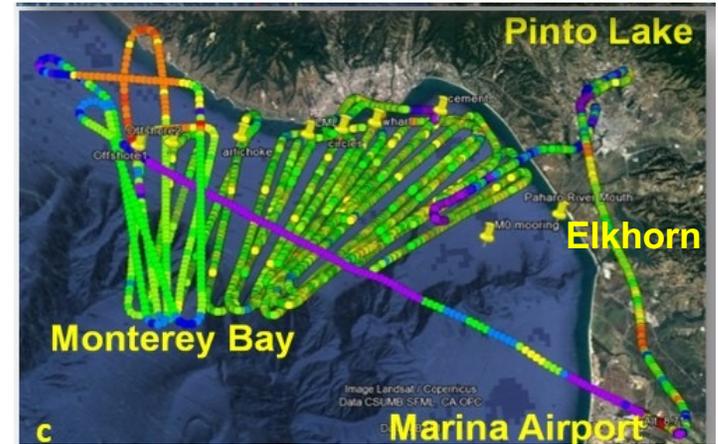
Anthony Bucholtz



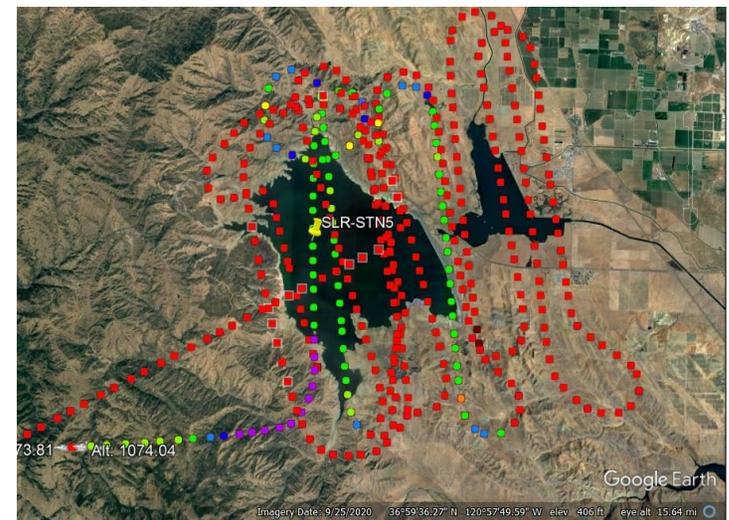


FY22 Twin Otter Missions Completed to Date - CHARRIER

- **C-HARRIER:** (October 2021 - 1 week)
 - **PI:** Liane Guild, NASA Ames
 - **Location:** Marina, CA
 - **Goal:** Measure coastal and inland water radiance for satellite validation over relevant aquatic targets – supports coastal and inland water quality science
 - **Sponsor:** NASA
 - **Sensors:** C-AIR, 19-channel radiometers
 - **Collaborators:** DART Boston Whaler, UCSC
- **3 Science Flights:**
 - **27Oct 2021:** Pinto Lake, Elkhorn Slough, Monterey Bay
 - **28Oct 2021:** Elkhorn Slough, Monterey Bay, coordinated with S-MODE project
 - **29Oct 2021:** San Luis Reservoir
- **Highlights:**
 - Captured first flush rain event (atmospheric river) for watersheds out to Monterey Bay
 - Drought stricken San Luis Reservoir with a cyanobacteria bloom



Nominal flight patterns – Monterey Bay



Flight pattern over San Luis Reservoir



FY22 Twin Otter Missions Planned

1. **CALICO:** (February-March 2022 - 6 weeks)

- **PI:** Scott Powell, NPS
- **Location:** Marina, CA
- **Goal:** Study of post-frontal convection and interactions with the boundary layer
- **Sponsor:** ONR

2. **SWEX:** (April-May 2022 - 6 weeks)

- **PI:** Leila Carvalho, UC-Santa Barbara
- **Location:** Santa Barbara, CA
- **Goal:** Study downslope windstorms, 'Sundowners', along the Santa Barbara coast
- **Sponsor:** NSF

3. **CLASI:** (*May-June 2022 - 2 weeks*)

- **PI:** *Qing Wang, NPS*
- **Location:** *Marina, CA*
- **Goal:** *Effects of the atmosphere on high energy laser attenuation*
- **Sponsor:** *ONR*



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Questions?

