

5/14/2024



PACE-PAX All Hands Tag Up

AGENDA

- Updates from ESPO:
 - Leadership is planning a site visit to Edwards AFB on May 23-24. We expect to have updates for our next All Hands.
 - Registration
 - Reminder: please remember to register and enter your travel dates for deployment locations or “No Travel”
 - We will be collecting information for travel dates and PII for Edwards AFB access
 - Ship Ops deployment has now been added.
 - Deployment: book your lodging using the reservation links on the ESPO PACE-PAX website
- Updates from Leadership:
 - Updated VTM

Validation objectives	ID	Measurement objectives	Importance, w	Observation time/#scenes, h (hours)	Objective total	
1. Validate new retrieval properties	a	Land surface parameters	8	1.0	55	
	b	Ocean radiometric parameters	10	4.0		
	c	Aerosol parameters over the ocean	12	4.0		
	d	Aerosol parameters over land	12	4.0		
	e	Cloud parameters	12	4.0		
	f	Ocean surface parameters	1	4.0		
3. Validate in a narrow swath	a	Aerosol parameters over the ocean (PACE)	10	4.0	41	
	b	Aerosol parameters over land (PACE)	10	4.0		
	c	Cloud parameters (PACE)	5	1.0		
	d	Aerosol parameters (EarthCARE)	8	4.0		
	e	Cloud parameters (EarthCARE)	8	4.0		
4. Validate radiometric and polarimetric properties	a	Validate large reflectances	6	1.0	24	
	b	Validate large reflectances with high polarization	6	1.0		
	c	Validate large reflectances with low polarization	6	1.0		
	d	Overfly vicarious calibration sites	6	2.0		
6. Focus on specific processes or phenomena	a	High aerosol loads over land	4	1.0	30	
	b	High aerosol loads over ocean	4	1.0		
	c	Multiple aerosol layers	1	1.0		
	d	Aerosol under thin cirrus	2	1.0		
	e	Aerosol above liquid phase cloud	4	1.0		
	f	Broken clouds with complex structure	4	1.0		
	g	Dust aerosols over ocean	4	1.0		
	h	Aerosol and ocean parameters over turbid waters	2	1.0		
	i	Aerosol and ocean parameters over biologically productive waters	4	1.0		
	j					
	k	Smoke aerosols over ocean	1	1.0		
			150	53.0		

VTM 2024/04/30

New!

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- Flight Planning & Weather Forecasting
 - Update on Bocachica - mission freeze in place
 - RU is in the process of working with Aaron and the GMAO group on ingesting products in MTS for aerosol forecasts
 - Sam L. is updating software for the interface with Bocachica server; tracing changes in predictive PACE for calendar planning; working with ER-2 and TO teams for feedback on dry runs

- Ocean Group
 - Shearwater: cruise folks have been added to mission but waiting for NOAA team member list
 - All FNs boarding the ship will need to be identified and a list supplied by the Vessel Operations Coordinator to NOAA's Office of Security. This must be completed 60 days < cruise in order to get pre-clearance.
- ER-2 & Instrument Teams
 - Thermal blankets: can be provided by the ER-2 team for the nose of the aircraft only
 - A/C carts in the hangar and on the pad - Tyler has verified equipment inventory and usage in past campaigns, sees no concerns. Some hoses, valves, and other fittings may need to be procured. The designs are in the works.
 - AirHARP: fine-tuning alignment of instrument, working on staffing for deployment
 - HSRL-2: working in the lab prepping the instrument for deployment. No Update on weight - should know weight in about 2-weeks.
 - PICARD: coordinating with RSP and SPEX teams to perform calibration at Ames
 - PRISM: Hangar calibration after integration in order to include the transmissivity of the ER-2 port window. The darker the better. Calibration flight over light and dark targets. 4802 has more windows creating more ambient light. We will likely need a night time calibration and coordination with ER-2 crew to facilitate this test.
 - RSP:
 - SPEX: New Single Board Computer and compatible SSD have been integrated into the system and are up and running. Instrument is at 80% functionality, with the remaining 20% to be completed with updated software.
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- Twin Otter:
 - Working on the tower clean up and replacing windows. There is a backup plan to use a trailer if tower access fails, however, the best option is for LARGE to operate ground instrumentation from the tower. Any update on antenna concerns (cellular equipment)?
 - TO payload weight: hopeful that 3 crew can be accommodated instead of 2
 - NASA reviews will happen late summer
 - LARGE: C-130 will be used to transport LARGE equipment back from Thule (ARCSIX) to US which prioritizes shipment; the team has received a rack at LaRC from AB which they will pre-populate as much as possible prior to mission.
 - LI-Neph: Adam will send PIF today
- Mission Tools Suite (MTS)
 - Please send an email to Judy or Sommer if you need access.
<https://mts2.nasa.gov/view/login>
 - What additional products should be ingested?
 - Fluid products (Rei)
 - GOES (Kirk needs to verify)

- PACE swath
 - MTS tracking device to go to R/V Shearwater
 - Aaron Duley has confirmed that the TO data can be ingested through ADS-B and does not require a tracker
 - AD is waiting for transponder info from AB to incorporate into MTS
 - Ivona will check with Stephane to see if we should get a third tracker for his UCSB rapid response operations
 - PACE is now available on World View including chlorophyll, OCI and true color. AD will add to MTS.
 - EarthCARE TLE can be added to MTS. Launch is in ~ 2-weeks.
- NSRC
 - Any comms requests should be directed to NSRC as soon as possible

Other

- Bastiaan will have a student deploying and has concerns about supplying USA medical clearance to fly aboard the TO. AB will forward info. The FN student will need access at Edwards and Marina. UPDATE: Looks like the payload weight will allow 2 operators on board (maybe 3 - TBD).
- Discussion on refractive index products from the Li-Neph with Adam Ahern including images, products and limitations.
- Bystander Training will be offered a second time virtually. A Google poll will be dispatched to the group.