

S-MODE Science Team Meeting

NASA Ames Research Center (Mountain View, CA)

August 21-23, 2019

Meeting goals:

- (1) *Introduce all team members*
- (2) *Discuss and optimize plan for April 2020 pilot experiment and main campaigns*

Wednesday, August 21

8:30 am	Continental Breakfast
9:00 am	Introduction (Tom Farrar)— S-MODE science goals and NASA requirements
9:20 am	Perspective from NASA HQ
	Review of instruments and platforms
9:30 am	<ol style="list-style-type: none">a. Airborne instruments (Ernesto Rodriguez)b. In situ instruments (Andrey Shcherbina)
9:50 am	Tentative experimental plan (Eric D'Asaro)
10:15 am	Discussion
10:30 am	Break
10:45 am	Perspective talks on addressing science goals (15-minute talks, including questions): McWilliams, Molemaker, Samelson/Chelton (10 minutes), O'Neill, Thompson, Gierach and Rainville
12:30 pm	Lunch
1:30 pm	Team introductions. 8 talks@10 minutes each. Divided into thematic groups to discuss: interests/issues/what's important/what's missing. Teams: OSU, JPL modeling, UCLA modeling, DopplerScatt, PRISM, SIO MASS, UCLA Moses, UW gliders, UW floats, in situ bio (Mahadevan and Omand), Saildrones (Rocha, Saildrone), Jacob Wenegrat, FDM team, data management/PO.DAAC, Data assimilation/operational models (NRL/JPL)
3:00 pm	Break
3:30 pm	Continue team introductions. 7 talks@10 minutes each.
4:50 pm	Level 1 Science Requirements—present draft version for later discussion
5:00 pm	End for day

Thursday, August 22

8:30 am	Continental Breakfast
9:00 am	Review/discussion of issues from day 1
9:15 am	Team Introductions: B200 and G-V
9:30 am	Review notional aircraft flight plans, ship time, in situ measurements in baseline plan (Farrar, Rodriguez)
10:00 am	Break
10:30 am	Data management plan and related issues (Bingham)
10:55 am	Discussion of decision making process and situational awareness during campaigns (D'Asaro)
11:15 pm	Tour Building 248 Hangar and the NASA B200 aircraft
12:15 pm	Lunch
1:15pm	Break into working groups to discuss key issues. Working groups: (a) modeling, (b) aircraft ops, (c) in situ ocean/atmosphere measurements, (d) data management/situational awareness
2:15 pm	Recap of working group discussions
2:30 pm	Divide into two groups—discuss improvements to campaign plan (and consider issues raised in morning); discuss (a) objectives of pilot campaign, (b) sampling plan for pilot (aircraft, in situ), (c) sampling plan for main campaigns (aircraft, in situ)
3:30 pm	Break
4:00 pm	Recap of group discussions, formulate revised plan
5:00 pm	End for day

Friday, August 23

8:30 am	Continental Breakfast
9:00 am	Discuss level 1 Science Requirements
9:45 am	Discuss finalized plan for pilot and main campaigns
10:30 am	Break
11:00 am	Discussion—meeting synthesis
11:20 am	Discuss working group actions in preparation for pilot campaign
11:45 am	Depart for Ames Hyperwall (Building N-258; Menemenlis)
12:30 pm	End of meeting