Architecture Evaluation Workshop/Review #4

September 1, 2, 8, 9, 10, 11, 17, 2020

Web-Ex and Telecon (9:00a.m.-1p.m. EDT each day)

Topics to be Covered

Tues., Sept. 1—10:00a.m.-1:00p.m. EDT

10:00-12:00a.m.	*Key ACCP Science Questions/Processes, Mapping to Objectives, and Approaches--Include Importance of Sampling To Each Science Question (Global Coverage (Lat: Polar/Inclined); Diurnal Cycle Sampling; Sampling for Process Evolution Over Several Minute Timescales (Revisit Time) and Importance of Continuity with and reliance on PoR).*	*SALT*
12:00p.m.-1:00p.m.	*Update on Architectures (Mapping Architectures to Science Implementation Strategies and Instrument Configuration*	*Vickie*

Wed., Sept. 2—9:00a.m.-1:00p.m. EDT

9:00-10:00a.m.	*Areas in Work (Status and Plan Forward—15 min each)*
	• *Mops and Ground System Design and Cost*
	   ○ *Options to Lower Latency for Modeling and Applications*
	• *Science Budget Evaluation*
	   ○ *Retrieval Algorithm Development Plan*
	   ○ *Competed Science*
	• *Modeling*
	   ○ *Plans for Modeling Workshop (Fall-Utility of Architectures to Modeling Community; Spring—Plan for Data Assimilation and Identification of Future Modeling Needs)*
	• *Sub-Orbital*
	   ○ *Science and Plan Forward*
		SET
		
		Chip
		Algorithm WG
		
		Andrew Gettelman
		
		SOWG

10:00-11:00a.m.	*Radar, Radiometer, Polarimeter, and Spectrometer Technology Readiness Assessment Summary*	*SET*
11:00a.m.-11:30a.m.	*Lidar Technology Readiness Assessment Summary*	*SET*
11:30a.m.-1:00p.m.	*Architecture Level Cost and Risk Analysis—8G, 8G-1, 8K, 8K-1, 8K-2, 11C/D/I/J*	*Vickie*

Sept. 8 See Next Page

Tues., Sept. 8 10:00a.m.-1:00p.m. EDT and 8:00-9:00p.m. EDT

10:00-1:00p.m.	*SIT-CCP Quality Assessments—8G, 8G-1, 8K/8K-1/8K-2, 11C/D/I/J (Comment on JAXA Radar with KaND if time)* *Quality Scores and Narratives*	*SIT-CCP*
7:00-8:00p.m. (8:00a.m. JST Sept. 9)	*Summary/Discussions with JAXA (if unable to attend sessions above)*	

Wed., Sept. 9 9:00a.m.-1:00p.m. EDT

9:00-10:00a.m.	*Lidar Trade Study Results—Lidar WG Instrument Performance Analysis*	*Lidar WG*
10:00a.m.- 1:00p.m.	*SIT-A Quality Assessments (8K, 8K-1, 8K-2)—Quality Scores and Narratives focused on Lidar/Polarimeter Contributions to 8 Objectives*	*SIT-A*

Thurs., Sept. 10 9:00a.m.-1:00p.m. EDT

9:00a.m.- 12:00p.m.	*Summary of Science Scoring Results*	*Value Framework*
	Full Architecture Science Benefit-Narrative of Interpretation of Results (not including benefit of delta t sampling or diurnal sampling). 8G, 8G-1, 8K/8K-1/8K-2, 11C/D/I/J	*SALT Narrative*
12:00-1:00p.m.	*AIT Scoring Architectures*	*AIT*

Fri., Sept. 11 9:00a.m.-1:00p.m. and 8:00-9:00p.m.

9:00a.m.- 11:00a.m.	*SCC Perspective On Science & Applications Benefit*
	    a. *Lidar Trade Study Questions—in preparation for Independent Feedback for October*
	    b. *Feedback on Cores within All Architectures Covered So Far—8G, 8G-1, 8K, 8K-1, 8K-2, 11C, 11D, 11I, 11J*
		Lidar WG

11:00a.m.- 12:00p.m.	*French Team Input/Feedback*
	Pierre Tabary / Valerio (25min)
	Science Team (35 min)
	    a. *Radiometer and C2OMODO delta t concept to be evaluated in October*
	    b. *Comments/Open Items to Lidar Trade Study Evaluation*	

12:00-1:00p.m.	*CSA Team Input/Feedback*	

	CSA Team response Architectures and Evaluation Results to Date	
7:00-8:00p.m. (8:00-9a.m. Sept. 12 JST)	*JAXA Team Input/Feedback* • *Study Team present results of JAXA Special Studies and Conclusions* • *JAXA Team response Architectures and Evaluation Results to Date*	

Thurs., Sept. 17

10:00a.m.- 1:00p.m.	***Thurs., Sept. 17—Post Review--Plan forward now to Down-Select to 3 Architectures in January 27-28, 2021***	

	• *Instrument Design Refinements Needed*
	• *Spacecraft Design Refinements Needed*
	• *Final Architecture Inputs and Final Architecture Freeze*
	• *Update on current Science Implementation Strategies, Architectures, Instrument Configuration Details*
	    o *Includes All New Science Implementation Strategies and/or Architectures updates coming out of September Review*
	• *Plan for Review October 14-15 Architecture Evaluation Workshop #5*
	    o *Inclusion of Scoring for Diurnal and Delta-t Sampling where applicable*
	    o *Updates to SIT/SALT Scoring For Lidar/Radar Configurations & Narratives*
	    o *Any open items on Final SIT/SALT Narratives*
	    o *Updates to Programmatic & Risk Assessments*
	    o *Plan for Final Architecture Evaluation Workshop/Review December 2-3 when all scores will be frozen*	