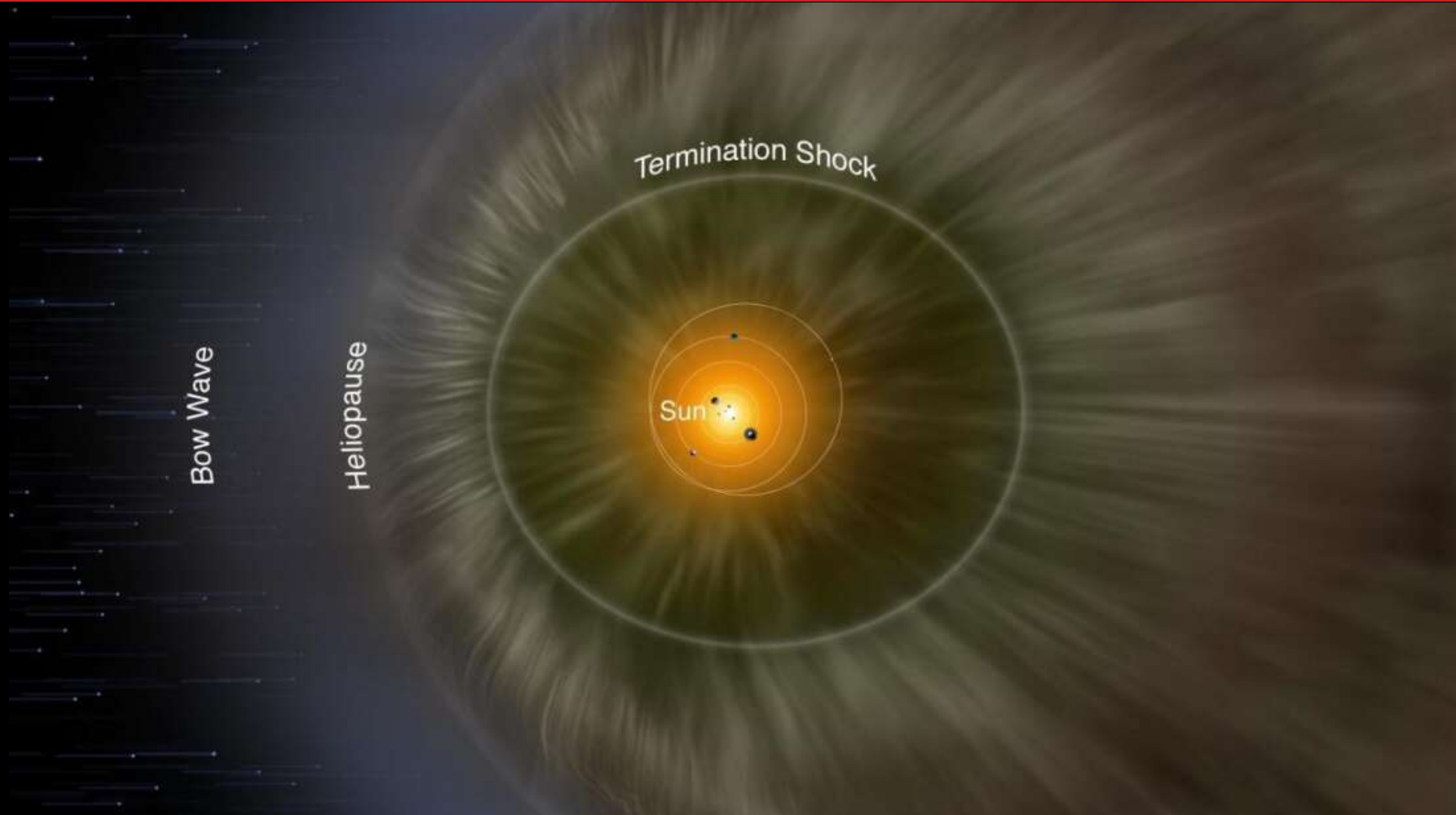




Outer Heliosphere Workshop: 21-23 July 2021

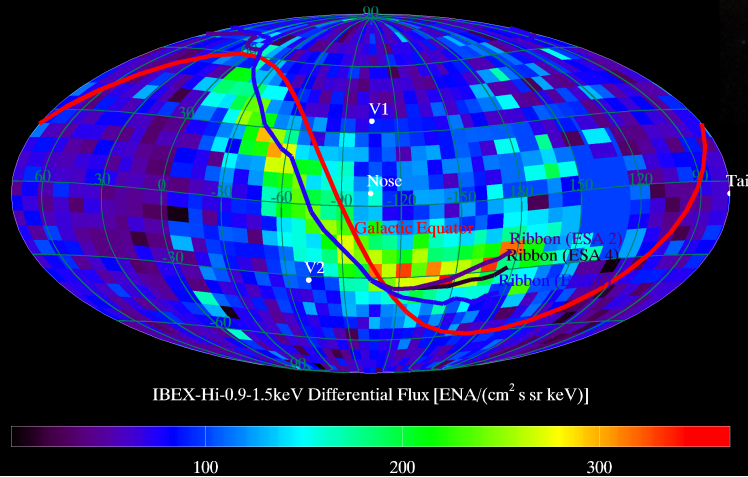
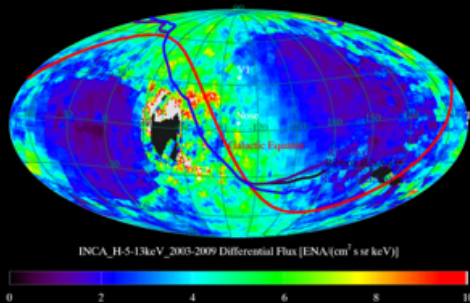
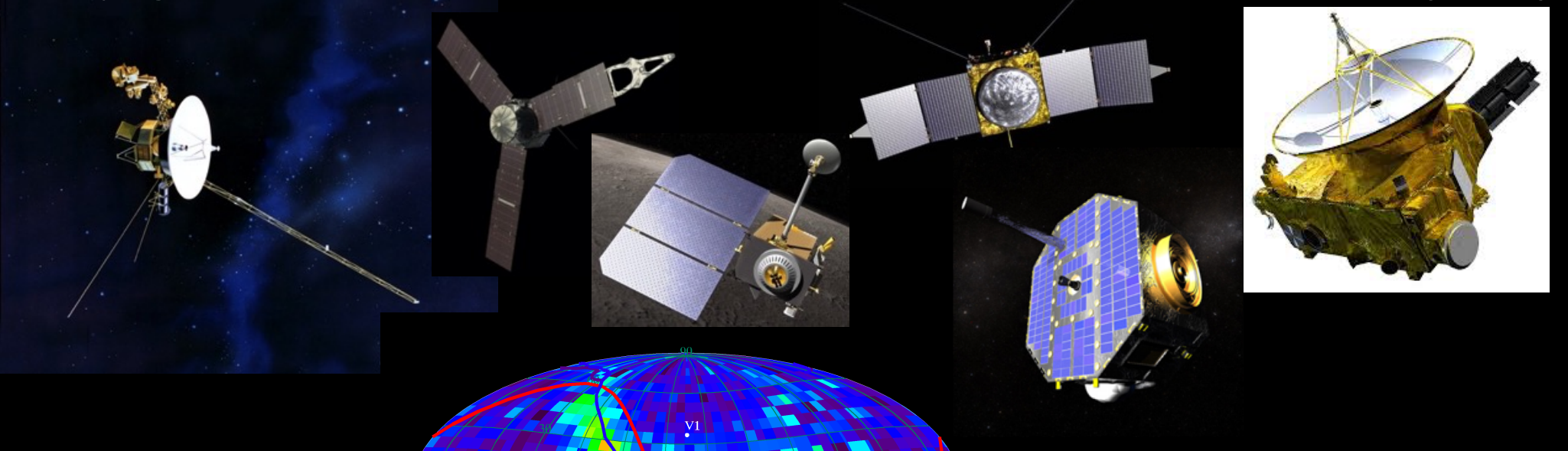




Synergies Between Spacecraft



Voyager, New Horizons, IBEX, Cassini, Juno, MAVEN, LRO, IMAP (2025)



3 days – 3 hours+ /day

Wed – Capabilities

Thu – Sun to Heliopause
– data + modeling

Fri – Collaboration,
Planning!

Wed July 21, 2021 Capabilities					
Eastern	Central	Start Time MT	Pacific	Topic	Speaker
11.00	10.00	9:00:00 AM	8.00	Meeting Introduction & Practicalities	Fran Bagenal
11.15	10.15	9:15:00 AM	8.15	Opening Remarks	Alan Stern
11.30	10.30	9:30:00 AM	8.30	SWAP Capabilities	Heather Elliott
11.45	10.45	9:45:00 AM	8.45	PEPSI Capabilities	Matt Hill
12.00	11.00	10:00:00 AM	9.00	SDC Capabilities	Mihaly Horanyi
12.15	11.15	10:15:00 AM	9.15	ALICE Lyman-Alpha Capabilities	Randy Gladstone
12.30	11.30	10:30:00 AM	9.30	Break	
12.45	11.45	10:45:00 AM	9.45	Voyager PLASMA and IMF Capabilities	John Richardson
1.00	12.00	11:00:00 AM	10.00	Voyager Energetic Particle and GCR Capabilities	Alan Cummings
1.15	12.15	11:15:00 AM	10.15	In-situ Hot Plasma Ion Measurements by Voyagers in Heliosheath and Galaxy, and Global ENA Images by Cassini/INCA: Shape, Pressures and Dynamics	Tom Krimigis
1.30	12.30	11:30:00 AM	10.30	Voyager Plasma Waves in the Outer Heliosphere, Heliosheath, and Interstellar Space	Bill Kurth
1.45	12.45	11:45:00 AM	10.45	General Heliospheric Modeling Overview Capabilities	Gary Zank
2.00	1.00	12:00:00 PM	11.00	Lunch and Open Forum Discussion/Gap Analysis	

Thursday July 22, 2021 Heliosphere Sun to Heliopause and Modeling					
Eastern	Central	Start Time MT	Pacific	Topic	Speaker
11.00	10.00	9:00:00 AM	8.00	Meeting/Opening remarks	Fran Bagenal
11.15	10.15	9:15:00 AM	8.15	From IBEX to IMAP	Dave McComas
11.30	10.30	9:30:00 AM	8.30	Current Theoretical Challenges In the Outer Heliosphere (Shape of Heliopause)	Merav Opher
11.45	10.45	9:45:00 AM	8.45	Multi-component, Multi-scale Interaction of the Solar Wind with the Local Intestrellar Medium	Nick Pogorelov
12.00	11.00	10:00:00 AM	9.00	Heliospheric Modeling With Variable Inner Boundary Conditions	Tae Kim
12.15	11.15	10:15:00 AM	9.15	The Global Heliosphere: Processes Responsible for its Shape and Structure	Romana Ratkiewicz
12.30	11.30	10:30:00 AM	9.30	Break	
12.45	11.45	10:45:00 AM	9.45	Sources of Dust in the Outer Heliosphere	Andrew Poppe
1.00	12.00	11:00:00 AM	10.00	Lyman-alpha Solar Rotation Variation	Wayne Pryor
1.15	12.15	11:15:00 AM	10.15	Interstellar Neutral Atoms from VLISM to 1 au	Pawel Swaczyna
1.30	12.30	11:30:00 AM	10.30	Solar Wind In the Outer Heliosphere (Radial Variations)	Heather Elliott
1.45	12.45	11:45:00 AM	10.45	Role of Pickup Ions in the Outer Heliosphere - Shock Modification	Eric Zirnstien
2.00	1.00	12:00:00 PM	11.00	Lunch and Open Forum Discussion Synthesis of Modeling and Data	

Friday July 23, 2021 Leveraging Assets, Resouces, and Collaborations					
Eastern	Central	Start Time MT	Pacific	Topic	Speaker
11.00	10.00	9:00:00 AM	8.00	Plans for the day	Fran Bagenal
11.15	10.15	9:15:00 AM	8.15	New Horizons after 15 years of flight	Glen Fountain
11.30	10.30	9:30:00 AM	8.30	Voyager spacecraft resources	Suzy Dodd
11.45	10.45	9:45:00 AM	8.45	Nearing the Boundary: New Horizons and Outer Heliosphere Science Opportunities	Pontus Brandt
12.00	11.00	10:00:00 AM	9.00	Shocked ions with New Horizons/PEPSI	Peter Kollmann
12.15	11.15	10:15:00 AM	9.15	Ion spectra and pressures in the heliosheath: "Ground truth" in- situ ions from the Voyagers and ENAs from Cassini	Dialynas Kostantinos
12.30	11.30	10:30:00 AM	9.30	Break	
12.45	11.45	10:45:00 AM	9.45	Radio and Plasma Waves Measurements for an Interstellar Probe Mission	Stuart Bale
1.00	12.00	11:00:00 AM	10.00	Sending microwaves across the solar system to probe the interplanetary medium	Ivan Linscott
1.15	12.15	11:15:00 AM	10.15	Measurement of the composition of interstellar cloud	Peter Wurz
1.30	12.30	11:30:00 AM	10.30	SHIELD	Merav Opher
1.45	12.45	11:45:00 AM	10.45		
2.00	1.00	12:00:00 PM	11.00	Lunch and Open Forum Discussion on Action Items	