Boulder Space Weather Summer School: WEEK 1

Time	Mon., July 18th	Tue., July 19th	Wed., July 20th	Thu., July 21st	Fri., July 22nd		
9:00-9:50	Welcome and Overview Stan Solomon / Wendy Hawkins	MHD & the Physics of Space Plasmas (Jeff Hughes)	The Solar Atmosphere (Steve Cranmer)	Solar Flares (Courtney Peck)	Coronal Mass Ejections (CMEs) (Joan Burkepile)		
9:50-10:05	Break						
10:05-10:55	Intro to Space Weather Effects & Economic Impacts (Howard Singer)	Numerical Methods for Simulating Space Plasmas (Steve Cranmer)	The Solar Wind & Interplanetary Magnetic Field (Jeff Hughes)	Solar Energetic Particles (SEPs) (Brian Kress)	Space Weather Indices (Jeff Hughes)		
10:55-11:10	Break						
11:10-12:00	Overview of Space Weather Modeling (Jeff Hughes)	Solar Magnetism (Mark Miesch)	Modeling the Solar Wind & IMF with WSA-ENLIL (Elana Provornikova: Remotely)	Radiation Hazards to Astronauts and Aviation (Rob Steenburgh)	Forecasting Space Weather at SWPC (Rob Steenburgh)		
12:00-1:00	Working Lunch – Round Table Discussions						
1:00-1:30	Answers to Questions from Morning Sessions						
1:30-2:30	Lab 1: Intro to Visualization (Nick Gross)	Lab 2: Exploring the Structure of the Solar Magnetic Field (Gross) & intro to CCMC	Lab 3: Sources of the Solar Wind (Gross)	Lab 4: Exploring the Structure of the Solar Wind (Gross)	Lab 5: Predicting the Arrival of CMEs at Earth (Gross)		
2:30-2:45	Break						
2:45-4:30	Lab Continues						
	Reception	SW 101 (Reality)	SW 102 (Harsh Reality)	SW 103 (Virtual Reality)			

Boulder Space Weather Summer School: WEEK 2

Time	Mon., July 25th	Tue., July 26th	Wed., July 27th	Thu., July 28th	Fri., July 29th		
9:00-9:50	Magnetospheric Structure (Mike Wiltberger)	Geomagnetically Induced Currents & Effects on Ground-Level Infrastructure (Jeff Love)	Thermosphere Structure (Stan Solomon)	Ionospheric Storms (Naomi Maruyama)	Capstone Project: Analysis of a Real Space Weather Event		
9:50-10:05	Break						
10:05-10:55	Magnetospheric Storms & Substorms (Jeff Hughes)	Radiation Belts: Observations & Impacts (Howard Singer)	Ionosphere Structure (Stan Solomon)	Storm Impacts on Navigation & Communication (Tzu-Wei Fang)	Capstone Project: Analysis of a Real Space Weather Event (continued)		
10:55-11:10	Break						
11:10-12:00	Magnetospheric Models (Mike Wiltberger)	Radiation Belts: Models (Scott Elkington)	Magnetosphere-Ionosphere Coupling (Kevin Pham)	The Aurora (Stan Solomon)	Capstone Project: Analysis of a Real Space Weather Event (continued)		
12:00-1:00	Working Lunch – Round Table Discussions						
1:00-1:30	Answers to Questions from Morning Sessions						
1:30-2:30	Lab 6: Exploring the Magnetosphere (Nick Gross & Mike Wiltberger)	Lab 7: TBD	Lab 8: Satellite Drag (Gross) (HAO Dir. Visits for Lunch)	Lab 9: Exploring the Ionosphere & Thermosphere (Gross/Solomon)	Wrap-up Session, Student Feedback, and Survey		
2:30-2:45	Break						
2:45-4:30	Lab Continue						
	SW 101 (Reality)	SW 102 (Harsh Reality)	SW 103 (Virtual Reality)	Dinner			