

**TIMED Science Workshop Agenda  
NCAR Mesa Laboratory, Boulder, CO**

**Monday 09-17-07**

8:00-8:30	Registration	
8:30-8:35	Welcome and Logistics	Sam Yee
8:35-8:40	Workshop Goals and Agenda	Yee
8:40-9:00	Mission Status <a href="#">TIMED IRU/Wheel Status</a> GUVI Status	<a href="#">Sam Yee</a> Christensen/Paxton
9:00-10:20	Data Validation, Quality Assessment, Future Plans (20 minutes each) GUVI TIDI SABER SEE	Christensen Killeen/Skinner Russell Woods
<b>10:20-10:40</b>	<b>----- Break -----</b>	
10:40-11:30	Special Science Presentation #1 “AIM Overview and TIMED collaboration”	Russell
11:30-11:45	<a href="#">Forward-model derived hydrogen densities: a proposed TIMED/GUVI and ground-based investigation</a>	<a href="#">Mierkiewicz</a>
11:45-12:00	<a href="#">H<sub>2</sub>O retrievals from TIMED/SABER measurements: current status</a>	<a href="#">Feofilov</a>
12:00-12:20	Discussion: Future Investigation	
<b>12:20-13:30</b>	<b>Lunch</b>	
13:30-13:45	Improved solar XUV irradiance results from TIMED Solar EUV Experiment (SEE)	Woods
13:45-14:00	<a href="#">Advances in operational solar spectral irradiance characterization</a>	<a href="#">Tobiska</a>
14:00-14:15	<a href="#">Solar Flare Soft X-ray irradiance and its impact on the Earth's Upper Atmosphere</a>	<a href="#">Rodgers</a>

14:15-14:30	<a href="#">Observations of escaping photoelectrons generated by the X3.0 solar flare on July 15, 2002</a>	<a href="#">Peterson</a>
14:30-14:45	<a href="#">Auroral hemispheric power: NOAA and GUVI estimations</a>	<a href="#">Zhang</a>
14:45-15:00	Energy Balance in the Thermosphere from TIMED and SORCE data	Mlynczak
15:00-15:15	<a href="#">Modeling Thermospheric neutral density using TIMED/SEE Measurements</a>	<a href="#">Qian</a>
15:15-15:30	Comparison of MSIS to GUVI O/N <sub>2</sub> from Solar Maximum to Solar Minimum	Paxton
<b>15:30-15:45</b>	<b>----- Break -----</b>	
15:45:16:25	Special Science Presentation #2 “Thermosphere and Ionospheric Variabilites” Equatorial Plasma Bubble Imaging with GUVI, 2002-2007 Lower Atmosphere Effects on Thermospheric and Ionospheric Variability On the midlatitude response of the thermosphere and ionosphere to the November 2004 superstorm	Paxton  Comberiate Talaat
16:25-16:40	<a href="#">Thermospheric O/N<sub>2</sub> in the sunlit disk from more than five years of GUVI/TIMED observations</a>	<a href="#">Craven</a>
16:40-16:55	<a href="#">O/N<sub>2</sub> and TEC at mid-latitudes</a>	<a href="#">Zhang</a>
16:55:17:10	<a href="#">Climatology of the ionosphere and thermosphere in low-middle latitude</a>	<a href="#">Kil</a>
17:10-17:25	<a href="#">The low-latitude ionosphere as observed by TIMED/GUVI and TOPEX/Jason and comparisons with the IRI model</a>	<a href="#">Talaat</a>
17:25-17:40	<a href="#">GUVI Limb observations of the equatorial Ionization Anomaly</a>	<a href="#">Shankar</a>
	<a href="#">TIMED/GUVI Observations of Long Term Trends in Composition, Temperature, and Mass Density</a>	<a href="#">Meier</a>
	<a href="#">The global structure and long term variations of zonal mean temperature observed by TIMED/SABER</a>	<a href="#">Xu</a>
17:40-18:00	Discussion: Future Investigation	
<b>18:00</b>	<b>Adjourn</b>	

## **Tuesday 09-18-07**

8:00-8:30	Registration	
8:30-9:10	<a href="#">Special Science Presentation #3 “Mesosphere and Lower Thermosphere Climatology and Variabilities”</a>	<a href="#">Yee/Talaat</a>
9:10-9:25	<a href="#">An investigation of solar cycle effect with Sodium Lidar and TIMED/SABER observations</a>	<a href="#">She</a>
9:25-9:40	<a href="#">Climatology of mesopause region temperature, zonal wind and meridional wind over Fort Collins, CO (41N, 105W)</a>	<a href="#">Yuan</a>
9:40-9:55	<a href="#">Solar cycle effects and trends in mesospheric temperatures from HALOE</a>	<a href="#">Remsberg</a>
9:55-10:10	<a href="#">Model Simulations of Solar Cycle and Long-term Variations in the Middle Atmosphere</a>	<a href="#">Mayr</a>
<b>10:10-10:30</b>	<b>----- Break -----</b>	
10:30-10:45	<a href="#">Temperature and Ozone Intra-seasonal (ISO), Semiannual (SAO), Annual (AO), and Quasi-biennial Oscillations (QBO) in the Mesosphere, Lower Thermosphere, and Stratosphere</a>	<a href="#">Huang/Mayr</a>
10:45-11:00	<a href="#">Winter Upper Mesosphere Interannual Variability Determined from TIMED/SABER measurements</a>	<a href="#">Winick</a>
11:00-11:15	<a href="#">On the variability of mesospheric OH emission profiles</a>	<a href="#">Liu</a>
11:15-11:30	<a href="#">Model simulations of inter-annual, annual, semi-annual, and intra-seasonal oscillations in the middle atmosphere</a>	<a href="#">Mayr</a>
11:30-11:45	<a href="#">Eastward propagating quasi-two-day waves in the MLT region</a>	<a href="#">Chang</a>
11:45-12:00	<a href="#">Wind balance in the mesosphere and lower thermosphere</a>	<a href="#">Liu</a>
12:00-12:15	<a href="#">Applications of TIDI Zonal Mean Wind Analyses</a>	<a href="#">Lieberman</a>
12:15-12:30	Discussion: Future Investigation	
<b>12:30-13:45</b>	<b>Lunch</b>	
13:45-14:00	<a href="#">Satellite, model and ground based observations of tides: Results from the Second CAWSES Global Tidal Campaign Workshop</a>	<a href="#">Chang</a>

14:00-14:15	<a href="#">Inter-Annual Variations of Diurnal Tides</a>	<a href="#">Wu</a>
14:15-14:30	<a href="#">Diagnostic Analysis of the Eliassen-Palm Flux and Momentum Deposition in the Mesosphere and Lower Thermosphere by the SABER Measured Migrating Tides</a>	<a href="#">Zhu</a>
14:30-14:45	<a href="#">Temperature, Ozone, and Wind Diurnal Variations in the Mesosphere, Lower Thermosphere, and Stratosphere</a>	<a href="#">Huang/Mayr</a>
14:45-15:00	<a href="#">Structure of the Summer Non-Migrating Semidiurnal Tide over the Arctic Determined from TIDI Wind Measurements</a>	<a href="#">Iimura</a>
15:00-15:15	<a href="#">Tidal variation in the ionospheric Dynamo Region</a>	<a href="#">Forbes</a>
15:15-15:30	<a href="#">Evidence for diurnal inertial-gravity waves in the equatorial lower thermosphere</a>	<a href="#">Lieberman</a>
15:30-15:45	Observation of concentric expanding gravity waves at Yucca Ridge, CO	Yue
15:45-16:00	Future Investigations: Discussion	
<b>16:00-16:15</b>	<b>----- Break -----</b>	
16:15-16:30	<a href="#">Comparison of SABER and GOMOS nighttime ozone</a>	<a href="#">Smith</a>
16:30-16:45	<a href="#">Effect of dynamical-photochemical coupling on oxygen airglow emission and implications for ozone retrieved from 1.27 micron emission in the upper mesosphere and lower thermosphere</a>	<a href="#">Zhu</a>
16:45-17:00	<a href="#">Spatial and Temporal Variations of the Atomic Oxygen in the Mesosphere and Lower Thermosphere</a>	<a href="#">Yee</a>
17:00-17:15	<a href="#">Laboratory measurements of OH energy transfer in TIMED data analysis</a>	<a href="#">Copeland</a>
17:15-17:30	<a href="#">A Faraday Filter-based spectrometer to measure Sodium nightglow D<sub>2</sub>/D<sub>1</sub> ratios for the determination of mesospheric O/O<sub>2</sub> ratios</a>	<a href="#">Harrell</a>
17:30-17:50	Future Investigations: Discussion	
<b>17:50</b>	<b>Adjourn</b>	
<b>18:30</b>	<b>Group Dinner</b>	

**Wednesday 09-19-07**

8:00-8:20	Registration	
8:20-9:00	<a href="#">Special Presentation #4 "Characteristics of Equatorial Plasma Bubbles"</a>	<a href="#">Kil</a>
9:00-9:15	GUVI Contributions to Coordinated Studies of Plasma Bubbles and Scintillation	Comberiate
9:15-9:30	<a href="#">Ring current aurora</a>	<a href="#">Zhang</a>
9:30-9:45	<a href="#">Potential targets for TIDI for the next TIMED extended mission</a>	<a href="#">Niciejewski</a>
	<a href="#">Assimilation of TIMED wind and temperature measurements into a tide-mean flow model</a>	<a href="#">Ortland</a>
<b>9:45-10:00</b>	<b>----- Break -----</b>	
10:00-10:25	<a href="#">Discussion Topics #1: "AIM and TIMED Collaborative Studies"</a>	<a href="#">Russell/Bailey</a>
10:25-10:50	<a href="#">Discussion Topics #2: "Future Research Opportunities for TIMED Related to Solar Variability"</a>	<a href="#">Woods</a>
10:50-11:15	Discussion Topics #3: "MLT Solar Cycle Investigation"	Yee/All
11:15-11:40	Discussion Topics #4: "TIMED Coupling Processes Investigation"	Paxton/Wu
11:40-11:55	<a href="#">VITMO: The Virtual Observatory for the ITM community"</a>	<a href="#">Morrison</a>
11:55-12:20	<a href="#">Discussion Topics #5: "TIMED Mission Archive Plan"</a>	<a href="#">Morrison</a>
12:20-12:30	Workshop Summary and Teaming Arrangement	
<b>12:30</b>	<b>Workshop Adjourn</b>	

**TIMED Executive Meeting**

14:00-16:00	Session 1	TIMED PIs
16:00-16:20	<b>----- Break -----</b>	

16:20-18:00 TIM Session 2  
Action Items Assignments

TIMED PIs

18:00 Executive Meeting Adjourn