Ocean Vector Wind Science Team Meeting

Salt Lake City, Utah

5 July – 7 July 2006

Temple Square

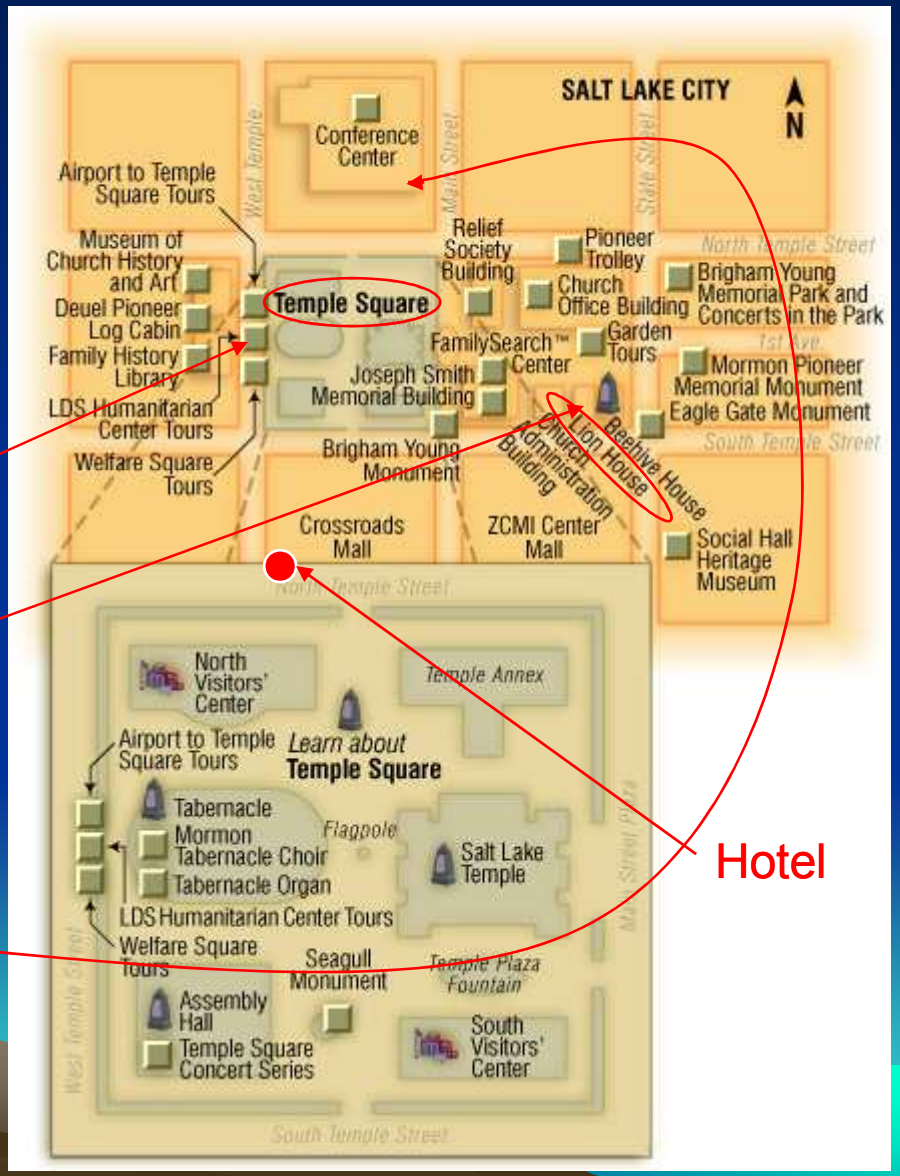
Touristing

The hotel is ½ block south of historic Temple Square, which is open to the public. Tours of various lengths are free and of interest

The world's largest family history library is west of Temple Square

Lion House (old Utah Territorial Office) is just east of Temple Square and the site of the optional group dinner

Mormon tabernacle Choir rehearsal



Session 1

Agency Reports

Wednesday

Session Chair: Tim Liu

- 1:20 pm JPL Welcome
- 1:30 pm Eric Lindstrom: NASA Oceanography Program
- 1:50 pm Robert Gaston: JPL Scatterometry Project
- 2:10 pm Stanley Wilson: NOAA overview
- 2:30 pm Paul Chang: NOAA operational applications
- 2:50 pm Eric Bettenhausen: NRL WindSAT Mission
- 3:10 pm Break and Poster set-up
- 3:30 pm Heruhisa Shimoda: JAXA Plan
- 3:50 pm Naoto Ebuchi: Japanese research and operational applications
- 4:10 pm Hans Bonekamp: Eumetsat ASCAT Commissioning
- 4:30 pm Marcos Portabella: OSI SAF ASCAT Level 2 Data

Session 2

Working Group Formation

Wednesday

Session Chair: Ernesto Rodriguez

- 4:50 pm Project Science Plan and Working Group
- 5:30 pm Adjourn

- 6:30 pm Group Dinner - Lion House
  - Buffet, 2 ½ block walk from hotel

- 7:30-8:00 pm Optional tours of the adjacent Beehive house, home of Brigham Young, early territorial governor of Utah

Group Dinner

Wednesday

Host: David Long

- 6:30 pm Group Dinner at the Lion House, optional
  $30 due at registration
  Buffet

  The Lion House (old Utah Territorial Office) is just east of Temple Square, 2 blocks from hotel

- 7:30-8:00 pm Optional tours of the adjacent Beehive house, home of Brigham Young, early territorial governor of Utah

Session 3

Data Reprocessing

Thursday

Session Chair: Ernesto Rodriguez

- 8:00 am Continental Breakfast

- 8:30 am Scott Dunbar: Science data product improvements
- 8:45 am Bryan Stiles: Rain flagging
- 9:00 am Ernesto Rodriguez: Data product evaluation team report
- 9:30 am Scott Dunbar: Data reprocessing plan and schedule
- 9:40 am Discussion on QuikSCAT science data products

- 10:00 am Break and Poster Viewing

WINDS
Measuring Ocean Winds from Space

Session 4

Oceanography

Thursday

Session Chair: Kathie Kelly

- 10:20 am Weiqing Han: Impact of atmospheric synoptic-to-intraseasonal oscillations on Indian Ocean multi-scale SST variability
- 10:40 am Tong Lee: Mechanism of interannual variability of cross-equatorial heat transport of the Indian Ocean
- 11:00 am Claire Perigaud: Use of QuikSCAT data to find out the role of the Indian Ocean in the tropical Atmosphere
- 11:20 am James Carton: Intramonthly winds: tropical oceanic impacts and importance for coupled air-sea interaction
- 11:40 am Mark Bourassa: Atmospheric and oceanic variability
- 12:00 am Discussion

- 12:30 pm *Catered Lunch* and Poster Viewing

WINDS
Measuring Ocean Winds from Space

Session 5

Wind Retrieval

Thursday

Session Chair: Mike Freilich

- 1:30 pm Simon Yueh: Combined active and passive remote sensing of hurricane ocean winds
- 1:50 pm Linwood Jones: Improved ocean vector wind retrievals in extreme wind events
- 2:10 pm Frank Wentz: Improved wind retrievals with rain detection and error bars and the assessment of new operational satellite wind retrievals
- 2:30 pm David Long: Application and validation of ultra high resolution wind, backscatter, and brightness temperature
- 2:50 pm Break *(special treat)* and Poster viewing
- 3:30 pm David Weissman: Corrections to scatterometer wind vectors: removing and calibrating rain induced errors using high resolution NEXRAD radar measurements
- 3:50 pm Stephen Frasie (presented by Robert Contreras): Airborne study of high winds and rain effects on sea surface NRCS using the Imaging Wind and Rain Airborne Profiler
- 4:10 pm Mike Caruso: Validation of satellite-derived surface wind fields
- 4:30 pm Discussion
- 5:00 pm Adjourn *On your own for dinner*
- 7:30 pm Optional activity: Mormon Tabernacle Choir dress rehearsal at LDS conference center – informal

WINDS
Measuring Ocean Winds from Space

Optional Activity

Host: David Long

On your own for dinner. There are nice restaurants at the Gateway mall and within a short walk.

7:30 pm Those interested can attend a dress rehearsal of the Mormon Tabernacle Choir, considered “America’s Choir”, in the LDS conference center. Dress is informal and you do not need to stay the whole time. The choir and conference center are impressive.

Session 6

Ocean-Air Interaction

Friday

Session Chair: James Carton

- 7:30 am Continental Breakfast

- 8:00 am Fabrice Bonjean: The Ocean Surface Wind-driven Currents
- 8:20 am Kathie Kelly: The Impact of Ocean Current Systems on the Atmosphere: A Study Using Vector Winds and Atmosphere-Ocean Modeling
- 8:40 am Shang-Ping Xie: Orographically induced ocean-atmosphere interaction: Satellite observations and numerical modeling (to be presented by Richard Small)
- 9:00 am Mike Freilich: Coastal and Orographic Wind Analyses from High Resolution QuikSCAT and SeaWinds
- 9:20 am Lisan Yu: A Study of Long-Term Trend and Variability in Global Ocean Surface Wind by Synthesizing Scatterometers with SSM/I and COADS Observations

- 9:40 am Break and Poster Viewing

Session 6 (cont)

Ocean-Air Interaction

Friday

Session Chair: James Carton

- 10:20 am Rong Fu: Water Cycle between Ocean and Land and its Influence on Climate Variability over the South American-Atlantic Regions as Determined by QuikSCAT/SeaWinds Observations
- 10:40 am Dudley Chelton: Midlatitude Ocean-Atmosphere Interaction
- 11:00 am Ralph Foster: Boundary Layer Studies Connecting Satellite Surface Winds and Pressure Fields to Storms, Weather, and Climate
- 11:20 am Shuyi Chen: High-Resolution Data Assimilation of Ocean Vector Winds for Tropical Cyclone Prediction Using a Coupled Atmosphere-Ocean Model
- 11:40 am Robert Atlas: Application of Satellite Surface Wind Data to Ocean Surface Analysis and Numerical weather Prediction

- 12:00 pm *Catered Lunch*

- 12:40 pm Ralph Milliff: Novel Applications of Satellite Surface Vector Winds in Models and Syntheses of Tropical and Sub-Tropical Atmosphere-Ocean Interactions
- 1:00 pm Timothy Liu: Oceanic Feedback and Acceleration of Climate Variability
- 1:20 pm Discussion

Session 7

Working Group Discussion

Friday

Session Chair: Ernesto Rodriguez

- 1:50 Working Discussion
- 3:00 Adjourn

Posters

- Seubson Soisuvam: Active/Passive Wind vector retrievals from SeaWinds/AMSR on ADEOS-II.
- Zhaoxia Pu: The impact of QuikSCAT surface wind data on the forecast of tropical cyclone genesis and intensification.
- Jin Yi Yu: Central America gap winds and eastern Pacific warm pool
- Jerome Patoux, Xiaojun Yuan and Cuihua Li: A Southern Ocean Surface Flux Climatology Using Scatterometer Measurements
- Deborah Smith: RSS correction algorithm for SeaWinds
- Qingtao Song, Peter Cornillon, and Tetsu Hara: What causes the observed persistent small scale features in ocean winds over the Gulf Stream, SST gradient or surface current?
- S. Hristova-Veleva et al.: Revealing the SeaWinds ocean vector winds under the rain using AMSR. Part I: The physical approach
- B. W. Stiles et al.: Revealing the SeaWinds ocean vector winds under the rain using AMSR. Part II: The empirical approach
- J. T. Dawe, L. Thompson: Effect of ocean surface currents on wind stress, heat flux, and wind power input to the ocean
- Zorana Jelenak: NOAA/NESDIS operational ocean EDR's retrievals from WindSat polarimetric measurements
- Richard Chen: PODAAC demonstration
- Kristina Katsaros: PORSEC 2006
- R.J. Small and S.-P. Xie: Surface currents in Tropical Instability Waves revealed by QuikSCAT and a coupled model
- Zorana Jelenak: Operational validation of new NRT QuikSCAT processing
- Brown, R, J. Patoux, and R. Foster: An operational use of scatterometer surface wind data plus PBL model
- J. Patoux, X. Yuan, and C. Li: A southern ocean surface climatology using scatterometers
- A.S. Kiran Kumar and R.M. Parmar: Satellite oceanography in India