

Workshop Agenda (March 6, 2013)

March 3 Sunday

4:00 – 6:00 pm Registration

March 4 Monday

7:45 – 8:15 am Registration

8:15 – 8:30 am Welcome remarks and logistics (Jim Moore)

8:30 am – 12:30 pm Plenary Session 1 - Progress in the MJO Study since TOGA COARE
(Chair: Chidong Zhang)

Session objective: Provide a broad background for issues related to MJO initiation and Indian Ocean coupled processes; review the progress made in regard of the MJO study and related issues since TOGA COARE; highlight similarities and distinctions between TOGA COARE and the 2011-12 Indian Ocean MJO field campaign.

Mike McPhadden: Indian Ocean Climate and the MJO

Richard Johnson: Observed Structure and Properties of the MJO from Two Major Field Campaigns

Robert Houze: Structure and evolution of convective clouds

James Edson: Air-sea interaction

Coffee break 10:30 – 11:00 am

James Moum: Equatorial upper ocean response to MJO wind bursts

Bin Wang: Understanding of essential dynamics of the Madden-Julian Oscillation

Martin Miller: Progress in predicting the MJO using a global Numerical Weather Prediction system

12:30 – 2:00 pm Lunch

2:00 – 2:15 pm Plenary Session 2 - Current status of data archive and release (Chair: Chuck Long)

Session objective: Set the stage for field PIs to interact with EOL data managers on field data release for public use

2:15 – 2:30 pm Instructions for breakout sessions (Chair: Chuck Long)

2:30 – 6:00 pm Breakout Sessions 1: Technical issues related to data and models

Session objective: Discuss detailed technical issues pertaining to specific working groups

Group 1A: Radars (Chair: Courtney Schumacher)

Group 1B: Soundings (Chairs: Dick Johnson, June Wang)

Group 1C: Surface fluxes (Chairs: Chris Fairall, Jim Edson)

Group 1D: Modeling (Chairs: Eric Maloney, Guang Zhang)

(Coffee break 4:00 – 4:30 pm)

6:00 pm Adjourn

6:00 – 6:30 pm Poster setup

March 5 Tuesday

8:30 – 8:45 am Plenary Session 3: Assignment of the day (Chair: Chuck Long)

8:45 – 10:30 am Breakout Sessions 2: Specific science issues

Sessions objective: Discussions on specific science issues.

Group 2A: Radar-based science projects (Chair: Steve Rutledge)

Group 2B: Large-scale forecast and diagnostics of MJO initiation (Chairs: Tim Li, Carl Schreck)

Group 2C: Air-sea interaction– DYNAMO Hypothesis III (Chairs: Jim Moum, Sue Chen)

10:30 – 11:00 am Coffee break

11:00 am – 12:30 pm Poster Session 1:

Radars and convection I (Chairs: Angela Rowe, Nick Guy, ZheFeng)

Air-sea interaction and upper ocean I (Chairs: Joshua Fu, HyodaeSeo, Aneesh Subramanian)

12:30 – 1:30 pm Lunch

1:30 – 3:30 am Breakout Sessions 3: Specific science issues

Group 3A: Convective population and evolution – DYNAMO Hypothesis II (Chair: Bob Houze)

Group 3B: Observations and modeling of ocean dynamics (Chairs: Bill Smyth, Kelvin Richards)

3:30 – 4:00 pm Coffee break

4:00 – 5:30 pm Poster Session 2:

Radars and convection II (Chairs: Angela Rowe, Nick Guy, ZheFeng)

Air-sea interaction and upper ocean II (Chairs: Joshua Fu, HyodaeSeo, Aneesh Subramanian)

5:30 pm Adjourn

March 6 Wednesday

8:30 – 8:45 am Plenary Session 4: Assignment of the day (Chuck Long)

8:45 – 10:30 am Breakout Sessions 4: Specific science issues

Group 4A: Radar applications to modeling (Chair: Samson Hagos)

Group 4B: Convection-environment interaction – DYNAMO Hypothesis I (Chairs: Shuyi Chen, Masaki Katsumata)

10:30 – 11:00 am Coffee break

11:00 am – 12:30 pm Poster Session 3:

Atmospheric and coupled modeling I (Chairs: Jian Ling, Tomoki Miyakawa, Shuguang Wang)

Soundings and large-scale diagnostics I (Chairs: Brandon Kerns, Satoru Yokoi, Manuel Zuluaga)

(Afternoon Free)

March 7 Thursday (Field Uniform Day)

8:30 – 8:45 am: Plenary Session 5: Assignment of the day (Kunio Yoneyama)

8:45 – 10:30 am Plenary Session 8: Report from Breakout Sessions (Chair: Kunio Yoneyama)

Session objective: Summarize main outcomes from the breakout sessions

(i) data and modeling status

(ii) new observational, diagnostic and modeling results

(iii) emerging science, new hypotheses, controversies, and remaining issues

(iv) proposed future studies that need coordination among different groups

(v) suggestions for the next phase of research

(Coffee break 10:30 – 11:00 am)

11:00 am – 12:30 pm Poster Session 4:

Atmospheric and coupled modeling II (Chairs: Jian Ling, Tomoki Miyakawa,

Shuguang Wang)

Soundings and large-scale diagnostics II (Chairs: Brandon Kerns, Satoru Yokoi,

Manuel Zuluaga)

12:30 – 1:30 pm Lunch

1:30 – 6:00 pm Plenary Session 7: Poster summary and general discussions (Chair:

Kunio Yoneyama)

Session objective: Synthesize results from all poster presentations: new results, ideas and hypotheses; controversies and remaining issues; planned future studies

(Coffee break 3:30 – 4:00 pm)

March 8 Friday

8:45 – 10:30 am Plenary Session 6: The November MJO event (Chair: Kunio Yoneyama)

Session objective: To have a synthesized view of this MJO event from all observing platform, models, and large-scale diagnostics, and to prepare observational data for an international model case study focusing on this case using GCMs, CRMs, and LAMs.

Coffee break 10:30 – 11:00 am

11:00 am – 12:30 pm Plenary Session 9: Way forward (Chair: Chuck Long)

Session objective: Discusses research topics that need further attention and coordinated efforts

Possible topics:

Enhancing observation-modeling integration

Observational need for theory development

Compare the Indian Ocean to the western Pacific and Maritime Continent

12:30 – 2:00 pm Lunch

2:00 – 5:30 pm Plenary Session 10: Wrap-up (Chair: Chidong Zhang)

Session objective:

(i) update status of data QC, archive, and release

(ii) summarize the main outcome of the workshop;

(iii) list action items to move forward post-field research;

(iv) make recommendations to funding agencies regarding the best way to support post-field research.

(Coffee break 3:30 – 4:00 pm)

5:30 pm End of the workshop