

Climate Variability and Change Virtual Course (CVCVC) Working Agenda (06/17/2013)

Lecture	Activity	Break
---------	----------	-------

Note: Virtual class begins at 8:50 am Mountain time each day. All Times are given for Mountain Time

Monday Jul 29, 2013 (7 h total)	Tuesday Jul 20, 2013 (6 h 30 min total)	Wednesday Jul 31, 2013 (5 h 30 min total)	Thursday Aug 1, 2013 (6 h 15 m total)	Friday Aug 2, 2013 (6 h total)
Introduction (40 m, 8:50am – 9:30am) <i>Goldstein/Timofeyeva</i> Intro to Climate Topics	Practice Session Review (30 m, 9-9:30 am) <i>Timofeyeva</i>	Drought Science (1 h, 9-10am) <i>Pulwarty</i> <i>(Note: Prerequisite Webcast on Drought)</i>	Assignment debrief(30 m, 9-9:30pm) <i>L'Heureux/Pulwarty/Gottschalck</i>	Climate Change Science (1 h 30m, 9-10:30am) <i>Higgins</i>
Climate Variability – Climate vs. Weather (1 h, 9:30 -10:30am) <i>Arndt</i>	ENSO Part 1 (1 h 30 m, 9:30 – 11:00 a.) <i>L'Heureux</i> <i>(Note: Prerequisite Webcast on ENSO life cycle)</i>	Drought Activity (30 min, 10-10:30am) <i>Pulwarty</i>	Climate.gov Information, Products, and Tools (1h 30min, 9:30 – 11am) <i>Herring</i>	<i>(Note: Prerequisite Webcast on Climate Change Science)</i>
Break (15 min)	ENSO Lab <i>L'Heureux</i>	Break (15 min)	Break (15 min)	
Climate Variability (1h, 10:45 – 11:45 am): Climate Anomalies and Teleconnection <i>Newman (Note: Prerequisite Webcast on Climatology)</i>		NOAA Climate Prediction Tools and Products (1h 30 min, 10:45am – 12:15 pm) <i>Halpert</i> Break (15 min)	Communicating Climate Variability and Change Products for Decision Support (1 h 30 min, 11:15am – 12:45 pm) <i>Buhr</i>	Climate Change Impacts (1h 30 m, 10:45 am– 12:15 pm) <i>Backlund</i>
Break (15 min)	Break (15 min)		Break (30 min)	Break (30 min)
Principles of Communication Climate Science (1h, 12:00-1:00pm) <i>TBD</i>	Hurricane Monitoring and Seasonal Outlooks (1 h 30 m, 11:15am – 12:45 pm) <i>Bell</i> Hurricane Monitoring and Seasonal Outlooks Lab <i>Bell</i>		Communicating CPC Climate Predictions for Decision Support – Breakout Sessions (1 h, 1:15 -2:15 pm) <i>Buhr/Herring/Timofeyeva</i>	Managing Marine and Coastal Resources in a Changing Climate (1h 30 min, 12:45 – 2:15 pm) <i>Brancato</i>
Break (30min)	Break (30min)	Break (30min)	Break (15 min)	
Understanding meaning of climate statistical terms and use of local tools (1.5h, 1:30 – 3:00pm) <i>Timofeyeva</i>	MJO Part 1 (1 h 30 m, 1:15 – 2:45 pm) <i>Gottschalck</i> <i>(Note: Prerequisite Webcast on MJO life cycle)</i>	Assignment - Prep/brief Monitoring MJO/ENSO/Drought (2 hr, 12:30 – 2:30 pm class-independent time)	Communicating CPC Climate Predictions for Decision Support - Summary Discussion (45m, 2:15 – 3:00 pm) <i>Buhr/Herring/Timofeyeva</i>	Closing Activity – Key lessons (30 m, 2:15 - 2:45 pm) <i>Timofeyeva</i>
Break (15 min)	MJO Lab (30 m) <i>Gottschalck</i>	“Instructors’ Office Hours” – Specific hours for each instructor when available to support <i>ALL Instructors</i>		Adjourn
Practice Session understanding statistical terms (self-paced exercise) (1h) <i>Timofeyeva</i>	Review summary ENSO/MJO/Hurricanes Intro briefing assignment (15 m, 2:45 – 3pm) <i>L'Heureux/Bell/Gottschalck/Timofeyeva</i>			

Objectives:

Climate Variability Climate versus Weather: Definitions of climate and weather, principles of explaining climate and weather extremes to various groups of users

Climate Variability Anomalies and Teleconnections: Understanding climate variability modes (ENSO, AO/NAO, PDO, PNA, AAO), blockage, teleconnections, their physical mechanisms, impacts and predictability

Principles of Science Communication: understanding public perceptions on climate change issues, familiarity with best practices for climate communication

Understanding meaning of climate statistical terms and use of local tools: Definitions of climatology, what climate statistics explain about variability and change, NOAA's definitions of predictions/forecasts/outlooks/projections, skill of products, confidence and uncertainty of NOAA climate products, tools for understanding climate variability and change impacts

Practice Session on Understanding Statistical Terms: using online forum format and NOAA tools, practice of writing short and meaningful summaries of local climate variability and change impacts in response to various climate user needs

ENSO: understanding physical mechanisms, impacts, predictability of ENSO, use of NOAA tools to monitor and predict ENSO; NOAA CPC ENSO briefings 101

ENSO Lab: Practice understanding current conditions and expected development

MJO: understanding physical mechanisms, impacts, predictability of MJO, use of NOAA tools to monitor and predict MJO; NOAA CPC MJO briefings 101

MJO Lab: Practice understanding current conditions and expected development

Hurricane Monitoring and Seasonal Outlooks: Understand hurricane climatology, current development, and methods of forecasting

Hurricane Monitoring and Seasonal Outlooks Lab: Practice understanding of current hurricane conditions and expected developments

Drought Science: understanding physical mechanisms, impacts, predictability of drought, NOAA tools for drought monitoring and predictions

Drought Lab: Hands on Drought.gov tools and information

NOAA Climate Predictions Tools: Understanding climate outlooks (long lead and extended range, drought, hurricane, etc.) and tools used for their development, interpretation of climate prediction information

Assignment: Practice communication of climate information to local office peers, prepare a 15 min briefing and communicate to local office staff information on climate variability current development and implications to local office products and services to users

Climate.gov Information and Tools: Navigation of climate.gov, utility for local user inquiries

Communicating NOAA Climate Prediction Products for Decision Support: understanding the difference in climate information applications (what different user groups seek) and learn how to tailor climate information to various user needs

NOAA Climate Predictions Tools Practice: Learn how communicate climate prediction information to various users' requests and outreach activities

Climate Change Science: understanding of physical mechanism, impacts and predictability of climate change impacts on extreme weather conditions

Climate Change Impacts: What are climate change impacts on human line, biological diversity, and natural resources?

Closing Activity: room around discussion on what messages became the highlights of the course

Managing Marine and Coastal Resources in a Changing Climate: Overview of climate change adaptation planning, adaptive strategies and management practices