

Detailed agenda

Day 1 February 25: Introduction and Question 1

8:00am	Depart hotel
8:30am	Arrival, Coffee
9:00am	NOAA Research Overview and Discussion <ul style="list-style-type: none">• Welcome and introductions• OAR & Review Overview• Q&A on Charge to Reviewers
9:45am	AOML Overview <ul style="list-style-type: none">• AOML Lab Director Presentation• Clarifying Panel Member Questions
10:35am	Break
10:45am	AOML Overview continued and Discussion <ul style="list-style-type: none">• Communications and Outreach
12:00pm	Informal lunch with Early Career professionals

1:00pm	Question 1 - Collecting foundational observations and improving understanding of climate mean state, variability, and associated impacts
1:15pm	Theme 1 - Monitoring the key components of the Atlantic ocean circulation systems <ul style="list-style-type: none">• AOML contributions to Global Ocean Networks Data Assembly (Drifters, Argo DAC)• AOML contributions to observing the Atlantic Meridional Overturning Circulation• Attributing the historical Atlantic Meridional Overturning Circulation changes• Theme 1 Discussion
2:15pm	Coffee Break + Tour of the Engineering Lab + Looking forward
3:00pm	Theme 2: Sustained Observations and Modeling of physical, chemical, and biological changes in the ocean <ul style="list-style-type: none">• Observing the air-sea interface• Observing essential ocean variables: ocean carbon & biogeochemistry• Routine monitoring of marine communities using 'omics approaches

- Monitoring Coral Reef Ecosystem Environments
 - Discovering the role of the ocean in long-term marine ecosystem changes: Marine carbon and ecosystem modeling
 - Theme 2 Discussion
- 4:30pm Reviewer discussion (closed)
- 5:00pm Adjourn
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Day 2 February 26: Question 1 (continued) and Question 2

- 8:30am Depart hotel
- 9:00am **Question 1** continued
- 9:00am Theme 3 - Discovering the role of the ocean in extreme weather
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 - Seasonal hurricane outlooks
 - Tropical Atlantic impacts on hurricane intensification and development
 - Large-scale sea level changes and coastal inundation
 - Theme 3 Panel Discussion
- 10:30am Break
- 10:45am Stakeholder closed session with reviewers
(Reviewers, Stakeholders discussing all of Q1)
- 10:45am Concurrent LO Session (LO reps, AOML Leadership & OAR HQ)
- 11:30pm Lunch (Reviewers and AOML leadership)
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- 12:30pm **Question 2** - Improving our monitoring, understanding, and prediction of tropical cyclones and ocean phenomena as well as their broader impacts on extreme events and associated hazards
- 12:35pm Theme 1 - An integrated view of hurricanes
- Hurricane Field Program: Preparing the Armada
 - Interactive Stations
 - Tail Doppler Radar: Operational Support and Research
 - Dropsondes: Operational Support and/or Research
 - Uncrewed Aircraft Systems: Taking Observations in Difficult Places

	<ul style="list-style-type: none"> ○ Uncrewed Marine Systems: Taking Observations in Difficult Places ○ Understanding Conflicting Data ● Summary of Theme 1 and Looking Forward
1:55pm	Break + Virtual reality experience
2:05pm	Theme 2 - Making our observations count <ul style="list-style-type: none"> ● Advancing data assimilation techniques ● Inner-Core data assimilation strategies ● Oceanic Data Assimilation & Impacts
2:50pm	Theme 3 - Modeling Hurricanes from above and below <ul style="list-style-type: none"> ● Advancing Model Developments (HFIP) ● Ocean Modeling for Improved Hurricane Forecasts ● Statistical Modeling ● Artificial intelligence for hurricane research and development
3:35pm	Break + Virtual reality experience
3:45pm	Question 2 Discussion
4:30pm	Stakeholder closed session with reviewers (Reviewers, Stakeholders discussing all of Q2)
5:00pm	Reviewer closed session
5:30pm	Adjourn

Day 3 February 27: Question 3 and Question 4

8:30am	Depart hotel
9:00am	Question 3 - Advancing Science and Technologies to Understand Multiple Stressors on Marine Ecosystems
9:05am	Multiple Stressors on Marine Ecosystems from Global to Local Scales <ul style="list-style-type: none"> ● Observing basin-scale ecosystem dynamics with satellite remote sensing: Seascapes, Sargassum, Vibrio ● Generating ecosystem assessments for decision makers and the public ● Providing actionable information for climate-ready decision making ● Quantifying the response of microscopic calcifying marine organisms to ocean acidification and alkalization ● Informing reef conservation and restoration through experimental manipulations

10:00am	Question 3 Discussion
10:30am	Coffee break + Coral / Omics Lab Tours
11:15am	Stakeholder closed session with reviewers (Reviewers, Stakeholders discussing all of Q3)
11:45pm	Working Lunch (reviewers only)
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1:00pm	Question 4 - What should AOML's role be in developing its work environment for the continued pursuit of world-class science, and building strong connections with communities and stakeholders to ensure broad access to science results? <ul style="list-style-type: none"> • Overview / Summary • Data Accessibility
2:00pm	End user panel discussion <ul style="list-style-type: none"> • Kathryn Lohr, NOAA Office of National Marine Sanctuaries • Craig Setzer, Royal Caribbean Group • Rachel Silverstein, Miami Waterkeeper • Jessica Snowden, AtlantOS
3:00pm	Stakeholder closed session with reviewers (Reviewers, Stakeholders discussing all of Q4)
3:00pm	Concurrent OAR Session (OAR and AOML Leadership)
3:30pm	Reviewers Session (closed)
4:30pm	Preliminary Impressions & Clarifying Questions (OAR/AOML Leadership + Reviewers)
5:00pm	Adjourn
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