



Science Advisory Board

**Environmental Information Services Working Group
(EISWG)**

The EISWG 2022 Annual Report to the U.S. Congress

(as required by the Weather Act of 2017)

Presented by: Brad Colman and Scott Glenn, EISWG Co-Chairs
NOAA Science Advisory Board

27 April 2022

2022 Report Outline

1. Summary and assessment of NOAA responses to two EISWG reports
 - a. Data Dissemination Statement
 - b. Hurricane Forecast Improvement Program (HFIP) Review
1. Status of new report reviews and internal focus areas
 - a. Reviews in progress
 - b. Focus areas moving forward
1. PWR Report and the Weather Act

Appendix: Detailed comments on NOAA responses to HFIP review

Data Dissemination Response

- EISWG report called attention to the urgency of operational data dissemination challenges & provided four primary recommendations
- NOAA prepared a timely and thorough response that specifically addressed multiple concerns, including ongoing positive developments:
 - user feedback, reduced bandwidth constraints, expanded cloud usage, SNS
- Some responses to critical challenges and recommendations are “based on additional funding” or “based on requested funding”
- Urgency remains with recent outages occurring during high impact events
- Full implementation of the Integrated Dissemination Program (IDP)

Hurricane Forecast Improvement Program (HFIP)

- Congressional focus on specific improvements:
 - (a) track & intensity forecasts; (b) storm surge forecasts; and (c) communication
- EISWG developed 5 summary and 21 sub recommendations
 - NOAA provided detailed responses at the December 2021 SAB meeting
 - EISWG commends NOAA for sustained and measurable improvements
- Full implementation of the HFIP Five-year Strategic Plan is critical
 - Requires an estimated ~\$22M annual investment, typical investment is ~\$12M
 - Significant leveraging (e.g., storm surge) & deferred plans (e.g., SBES)
- HFIP is a rapid transition vehicle for high RL research to operations
 - Broader support needed for low RL basic/applied research & open science

Sections 2, 3 & Appendix

- NOAA report reviews, and internal EISWG focus areas
 - Subseasonal And Seasonal Forecasting Innovation - *NOAA Report*
 - Gaps in NEXRAD Radar Coverage - *NOAA Report*
 - Space Weather - *Focus Area not covered by Weather Act or PWR*
- PWR Report and the Weather Act
 - Weather Act includes high-value use cases for PWR
 - PWR alignment and integration invokes a broad Enterprise voice
- Appendix - HFIP Detailed Response
 - More detailed EISWG findings on NOAA responses
 - Mapping to PWR Immediate First Steps



Science Advisory Board
**Environmental Information Services Working
Group (EISWG)**

**DISCUSSION &
QUESTIONS?**