

SAB AI Executive Team Prospectus Background



Science Advisory Board

- **Why should SAB engage on AI?**
 - In 2020/21, NOAA published a strategy and strategic plan for AI in Earth Sciences
 - Sense of urgency – call to action
 - Market demand
 - Rapid pace of change in AI technology
 - High potential for significant impact on earth science research
 - Uncertainties & risks regarding implementation and governance
- **Origin**
 - SAB Mtg July 2023 – AI Panel discussion
 - SAB Mtg November 2023 – SAB discussed importance of and fast-changing nature of AI
 - Conclusion – convene meeting of WG Co-Chairs & SAB Liaisons
 - Objective – recommend path forward for SAB to address AI/ML
- **Result**
 - WG Co-Chairs and SAB Liaisons met on 1/26/24
 - Formed AI Scoping Team to develop short prospectus
 - Prospectus to be completed and submitted to SAB for review at 3/24 meeting
 - Scoping Team
 - Evaluated alternative approaches and pros & cons
 - Developed Prospectus for AI Executive Team

SAB AI Executive Team Prospectus

Scoping Team Members



Science Advisory Board

- **AI Scoping Team Members**
 - John Kreider, SAB Chair
 - Ilene Carpenter, SAB DAARWG Liaison
 - Jon Allan, SAB ESMWG Liaison
 - Zhaoxia Pu, SAB EISWG Liaison
 - Cecilia Blitz, CWG Co-Chair
 - Corina Allen, TSTAP Co-Chair
 - James Sims, DAARWG Co-Chair
 - Thomas Hamill, EISWG
 - Joe Fillingham, SAB Staff Support

SAB AI Executive Team Prospectus

Purpose & Scope



Science Advisory Board

- **Purpose**

- Establish effective, ongoing framework to guide and coordinate multiple SAB and/or WG AI studies
- Provide NOAA leadership sound recommendations for strategies to help NOAA integrate AI in an agile, risk-managed approach, which will increase effectiveness of NOAA's efforts to develop and apply AI to science in support of NOAA mission

- **Scope**

- Assess information on current NOAA AI priorities, strategies, efforts, obstacles, and results
- Guide, coordinate, and improve commonality of AI studies by SAB and its WGs
 - May encourage specific studies
 - Act as resource to help initiatives brought forward by WGs
- Provide focused touch point for interface with NOAA on AI matters
- **Propose recommendations to NOAA leadership through SAB**
 - Intent – e.g., if ALET sees significant shortcoming deserving urgent attention, could draft letter/recommendation on behalf of SAB and provide to SAB for approval/comment
- **Not intended to create additional approval hurdle**

SAB AI Executive Team Prospectus

Proposed Team Structure



Science Advisory Board

- **AI Executive Team Membership**
 - Chair – SAB member with AI expertise
 - 1 representative from each of 5 WGs
 - 1 – 3 other members with domain expertise
- **NOAA Interface**
 - NOAA AI Executive Committee (NAIEC)
 - Co-Chairs – Jebb Stewart & Ben Richards
- **SAB Interface**
 - SAB Chair