

# Topic 4: Data Science & AI

SAB Champions:

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November 1, 2018

# Topic 4

Review Improving Data Collection, Management, Dissemination and Decision Support, and Leveraging New Approaches, such as those encompassed in the domain of Artificial Intelligence (AI) and Data Science

# Overview

- Ask DAARWG to report back to us within six months, on citizen science, the use of advanced analytics and data science techniques for improving data integration.
- Ask the HPC WG to report back to us within six months on needs and capabilities related to high performance and high throughput computing, including the use of GPUs, TPUs, etc., and the needs and capabilities related to HPC in the cloud.
- Discuss these topics with NOAA leaders, including Ed Kearns (NOAA CDO) and others as appropriate.
- Prepare an interim and final slide presentation synthesizing and summarizing relevant issues, with associated options. Prepare a short report.

# Deliverables

- An interim slide deck summarizing our observations, with options for consideration.
- A final slide deck summarizing our observations, with options for consideration.
- A short 2-4 page report summarizing our observations and associated options for consideration.

# Time Table

Dec 10, 2018

Tasking of DAARWG and HPC WG

May 15, 2019

DAARWG and HPC WG return interim reports

Jul 1, 2019

Interim slide presentation

July 30, 2019

DAARWG and HPC WG return final reports

Sept 15, 2019

Final slide presentation and report

# Resources Needed

- Cooperation of DAARWG.
- Cooperation of HPC WG.
- Support from NOAA SAB office to help with scheduling of meetings with NOAA personnel.