Research supercomputing

partisan Infrastructure Law summary: *"Shall be for research supercomputing frastructure used for weather and climate model development to improve drought, ood, and wildfire prediction, detection, and forecasting."*

OAA generates tremendous value for the Nation—and the world—by advancing our ility to understand and anticipate changes in the Earth's environment, improving ciety's ability to make scientifically informed decisions, and by conserving and anaging ocean and coastal ecosystems and resources.

l of this data that NOAA collects in its Earth observations require storage devices, dvanced data communications, hardware and software engineering services, security, d necessary data center space. High performance computing allows scientists to use at calculating power to produce more accurate ocean, air quality, and environmental odels. NOAA's research enterprise HPC assets are critical to meeting our ability to eliver NOAA's future and, ultimately, to provide the products and services required by e American public.

his plan will expand high performance computing and archive resources, and provide odernization of software infrastructure. Modern facilities increase capacity for fficient calculations and add computational power in response to growing needs. The dditional computing capacity will be used for weather and climate model evelopment to improve drought, flood, and wildfire prediction, detection, and recasting.

unding

80M in FY 2022

nnouncements

- Funding will likely be distributed internally, therefore no external funding opportunity is expected at this time.

AA's newest high performance computer Hera, is used for research to advance weather, climate and osystem prediction. In 2020, it was named number 88 among the top 500 high performance mputers in the world based on computing capacity, according to Top500.org. (NOAA)
ownload Image

ead office

gh Performance Computing & Communications Division, NOAA Office of the Chief formation Officer

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