Researchers used climate forecast systems to develop global marine heatwave (MHW) forecasts, which have significant skill in many regions. They also created a MHW website that provides current ocean maps, experimental forecasts, and interactive tools.

Keywords: Marine heatwave, prediction, forecast

Start date of use case: 44652
End date of this use case:
Is this use case ongoing? : Yes
Use case URL : https://www.nature.com/articles/s41586-022-04573-9
Data source URL: https://psl.noaa.gov/marine-heatwaves

Ocean Region: Atlantic Ocean
Sea:
Large Marine Ecosystem Area:
Country:
Other Geography: global ocean
Format Type: Journal Article, website
Data Type:
Primary Use: Research, Weather/Climate, Environmental Management, Commercial Fishing, Aquaculture, Recreation
User Type: Government Professional, Academic
Data Type: Physical
Ocean Observing System (OOS) Variable: Sea surface temperature, Subsurface temperature
Information Type: In situ data, Remote sense data, Model output

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Industries which benefit: Commercial Fishing, Aquaculture, Recreational Fishing, Marine Research and Education, Coastal and ocean tourism and recreation
Benefits to ecosystems: Ecosystem Health, Biodiversity, Endangered Species
Ecosystem Services: Ecosystem Services: Provisioning, Ecosystem support of goods and services, Fisheries (commercial or recreational, Aquaculture
Ecosystem Regulation and Maintenance Services:
Cultural Ecosystem Services:
Are benefits documented?: No
Are the benefits documented by:
Are the benefits quantified?: No
Are the quantified benefits reported as monetary values?:
Other Benefits: