



West Africa Ocean Climate Innovations Hub

This oral poster presentation addresses the UN Ocean Challenges 5,7&8 which focuses on Unlock Ocean based solutions to climate change , Expand the Global Ocean Observations System and Digital representation of the Ocean . It focuses on SDG 13 & 14 which highlights on Climate Change and Life below water . The West Africa Ocean Based Innovations Climate Hubs aim to address key challenges in open ocean prediction, data assimilation, and ocean modeling in the West African region. These hubs leverage advanced technologies and innovative approaches to improve the accuracy and reliability of ocean forecasting systems, helping decision-makers better understand and respond to changing ocean conditions. By harnessing the power of real-time data collection, advanced modeling techniques, and collaborative partnerships, these hubs are able to provide timely and accurate predictions of ocean dynamics, including sea surface temperatures, currents, and wave heights. This information is critical for a range of applications, from marine resource management and disaster response to climate change adaptation and mitigation. Additionally, the hubs focus on data assimilation, the process of incorporating observational data into numerical models to improve their accuracy and precision. By combining data from satellites, buoys, and other sources, these hubs are able to create more reliable and comprehensive ocean models that can better represent the complex interactions between the atmosphere, ocean, and land. Ultimately, the West Africa Ocean Based Innovations Climate Hubs are working to improve the resilience and sustainability of coastal communities in the region by providing them with the tools and information they need to make informed decisions and take proactive measures in response to changing ocean conditions. Through their innovative approaches and collaborative efforts, these hubs are helping to build a more resilient and adaptive West African region in the face of climate change and other environmental challenges.

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