

2022 Joint EOL/CyPRESS Seminar Series (Hybrid)

TOWARDS IMPROVED SHORT-TERM FORECASTING FOR LAKE VICTORIA BASIN: EXPLORING HIGHWAY FIELD CAMPAIGN DATA

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DATE: October 11, 2022

TIME: 3:30-4:30 pm MST

WEBCAST: operations.ucar.edu/live-eol

LOCATION: NCAR Foothills Laboratory, Boulder, CO
FL1-1022 Large Auditorium

QUESTIONS: Participants may ask questions during the seminar via Slido

ABSTRACT

East African countries benefit from the largest freshwater lake in Africa: Lake Victoria (LV). Around 30 million people live on its coastline and 5.4 million people subsist on its fishing industry. However, more than 1,000 fishermen die yearly due to high waves partially produced by severe convective wind phenomena, which makes this lake one of the deadliest spots in the world.

The World Meteorological Organization launched the 3-year “HIGH impact Weather LAke sYstem” (HIGHWAY) project, with the main objective to reduce the loss of lives and goods in the lake basin and to improve resilience for the local communities. The project included a field campaign in 2019 to provide forecasters with high-resolution observations and to study the storm life cycle over the lake basin.

The research here uses the field campaign data to investigate the main convective modes over the lake, their organization, their pre-convective environment, and the polarimetric capabilities of the radars for LV. The preliminary results will provide a valuable source of information for forecasters in the region, contributing towards retrieving better nowcasting and early warning systems for fishermen and local communities along the lake, in a challenging societal and cultural region of the world.

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This webcast will be recorded and uploaded to the
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