

Nearshore Remote Sensing Group

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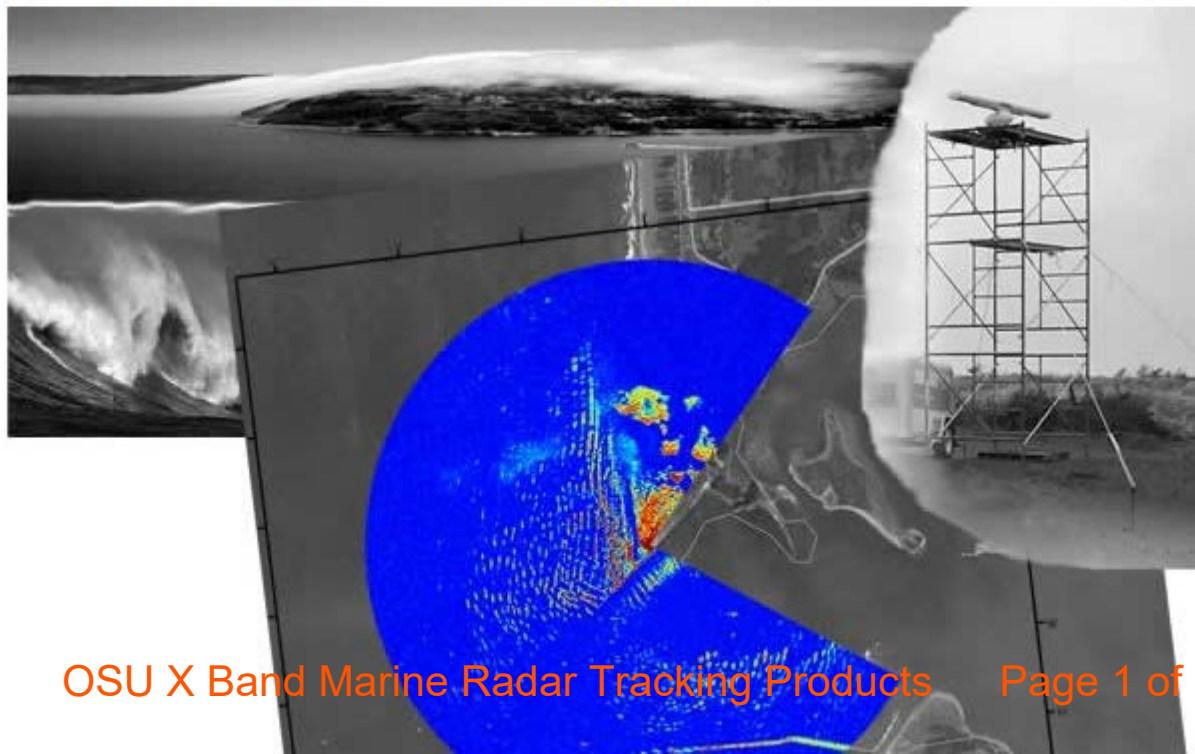
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Wave Imaging Marine Radar at Newport, OR (South Jetty of Yaquina Bay Inlet)

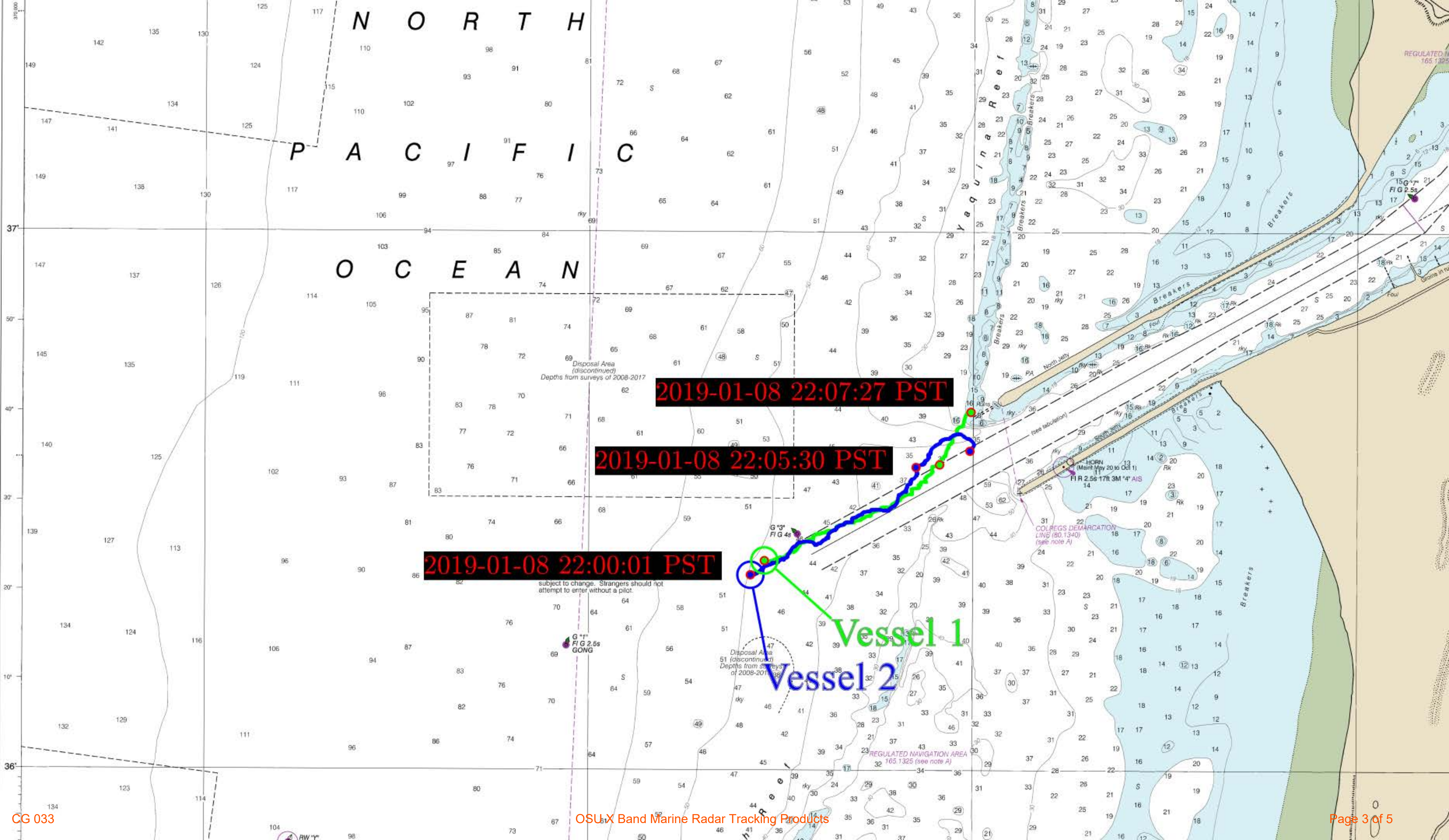
Conventional marine radar technology is being adapted as a tool for wave observing in coastal areas. Researchers within the Ocean Engineering Program at Oregon State University in cooperation with Imaging Science Research, Inc. have developed a high-resolution wave observation system using an X-band marine radar with a customized data acquisition system. These observation systems offer the potential for providing real-time wave information over large nearshore areas ($\sim 20 \text{ km}^2$). We expect that remote sensing technology such as this can provide a considerable benefit at navigational entrances where wave conditions are often hazardous and highly variable and where traditional in-situ sensors are often ineffective or cannot be safely deployed.



View of radar with the Yaquina Bay Bridge in the background



Google Earth image showing the radar location

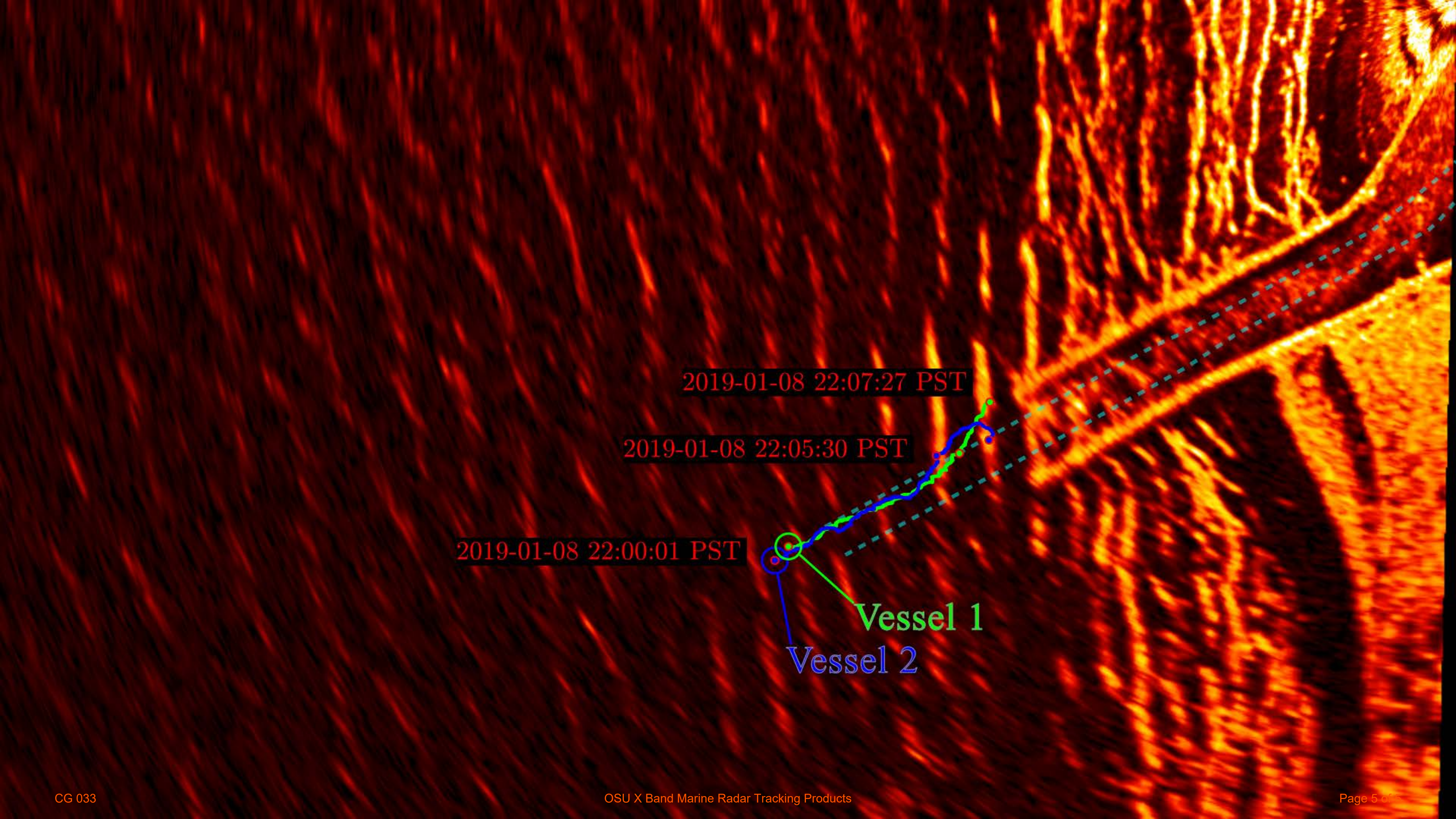


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Vessel 1
Vessel 2



2019-01-08 22:07:27 PST

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Vessel 1

Vessel 2