

EO case summary Determine meteorological and oceanographic conditions

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Earth observation (EO) technologies are useful in providing environmental context while conducting marine studies. For ship-based studies in particular, EO can help make day-to-day decisions as to when and where to collect samples, and especially when trying to understand more ephemeral ecosystem features such as polynyas, the ice edge, eddies, or predator-prey hotspots.

Being able to review these data as they are relayed in near-real time to the ship allows for safer and more efficient research operations and thus represents a critical tool many researchers have come to rely on. [For more information, click here.](#)