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# The MAEVA project

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## Résumé

The MAEVA project focuses on most intense swell, from its formation to its impact on coastal environments. The project is characterized by an approach combining satellite data, in situ measurements and numerical modelling.

While no tropical cyclone were recorded so far in French Polynesia during the CFOSAT mission, we present the first results with intense swell measured by CFOSAT and compared with direct in situ measurements. Our study relies on three pressure probes around the island of Moorea. We show how the distribution of probes north and south of the island matches the directional spectra provided by the SWIM instrument. A comparison of the omnidirectional spectra also reveals the remarkable accuracy of the SWIM instrument at small wavelengths compared with SENTINEL spectra.

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