



Atelier ILICO Outre-Mer Pacifique



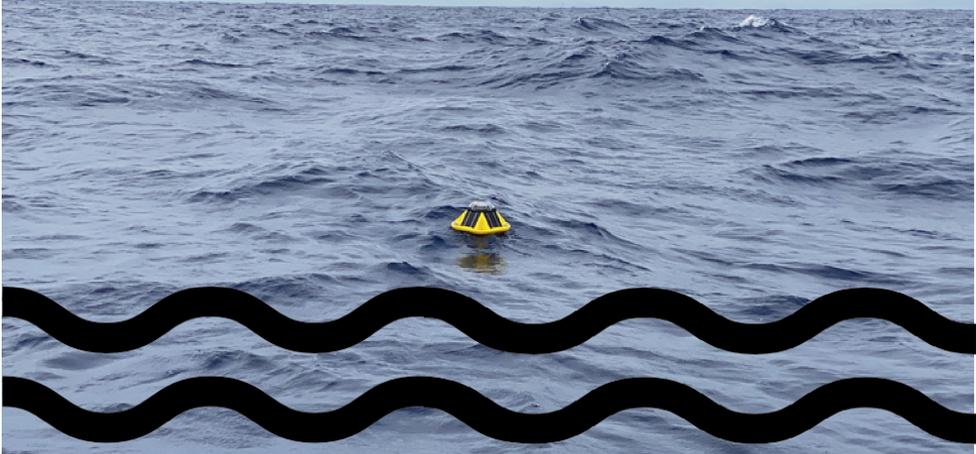
Nouméa, CPS, 14-17 mars 2023

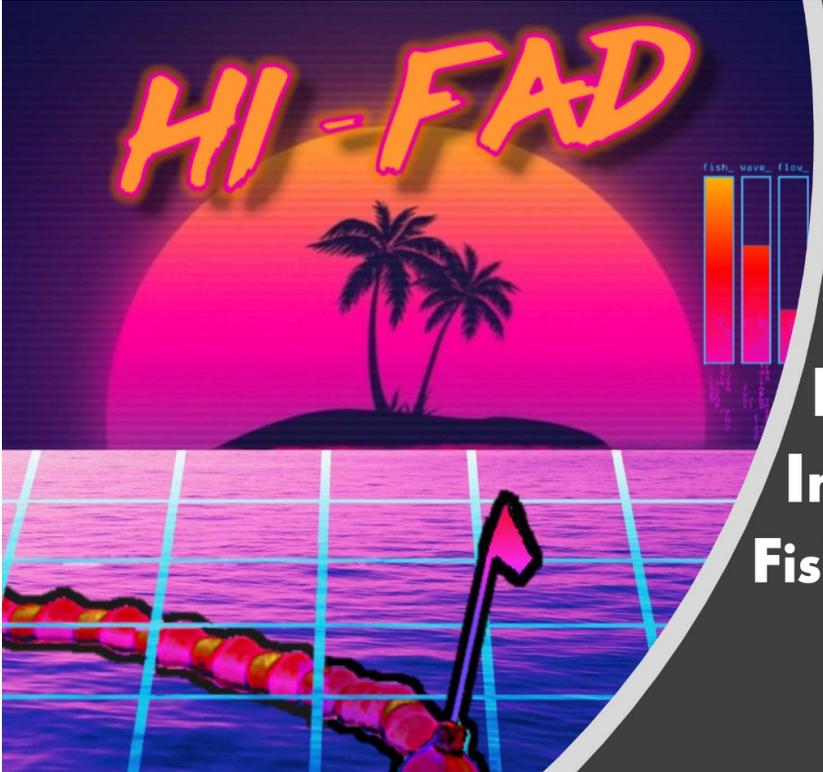
- Présenté par **Maxime Duphil** : doctorant et gestionnaire houlographes NC
- Thèse en **vulnérabilité côtière** : observations in-situ et modélisation numérique




Réseau Régional Bulletin
Alerte Côtière







Highly
Instrumented
Fish Aggregating Devices

Hi-FAD Project
April 2022




Suivi des conditions de mer au large des DCP avec SOFAR Spotter en Nouvelle-Calédonie

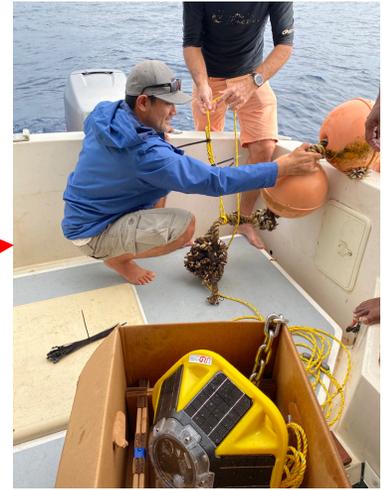
SOFAR Spotter



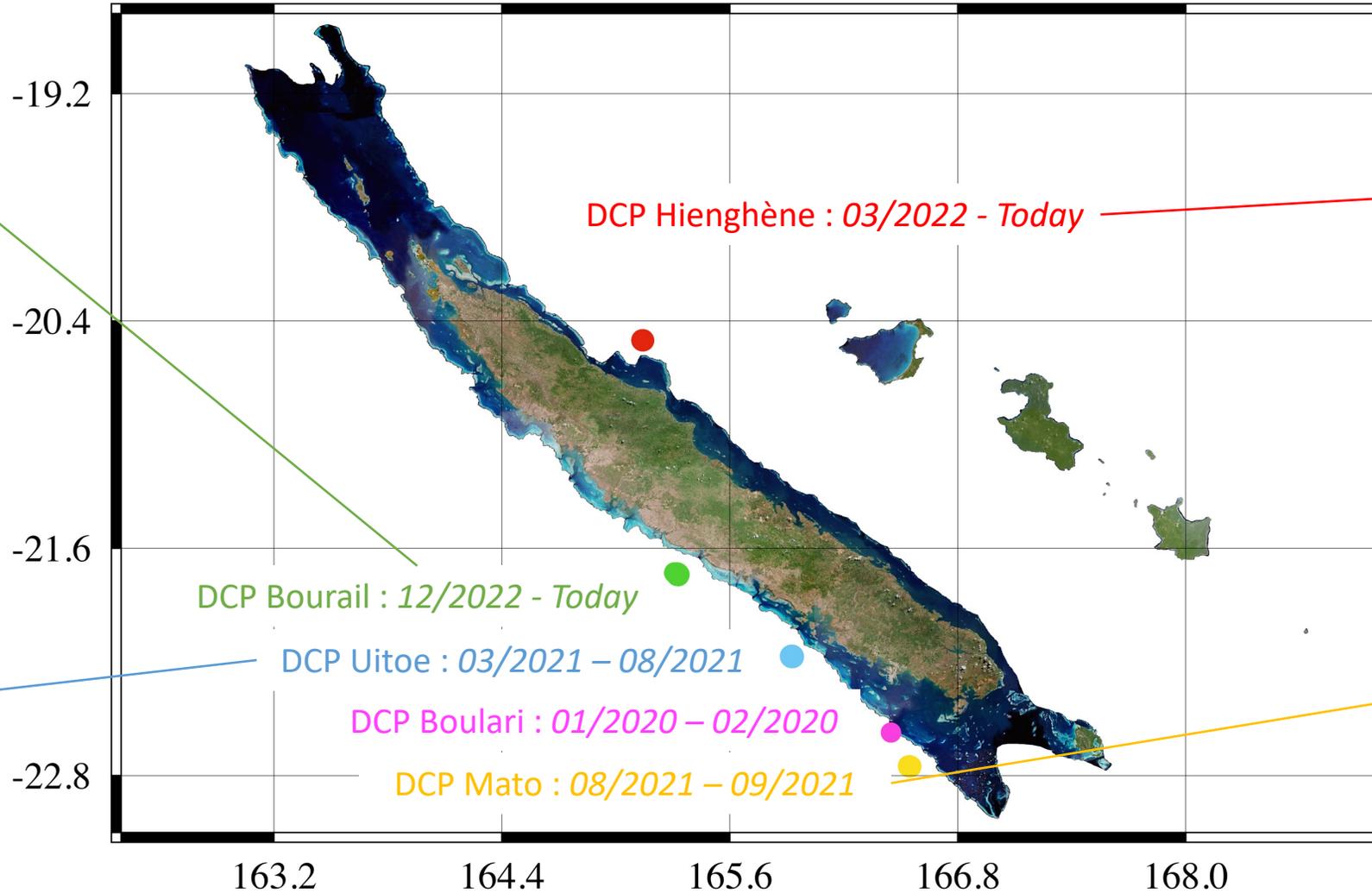
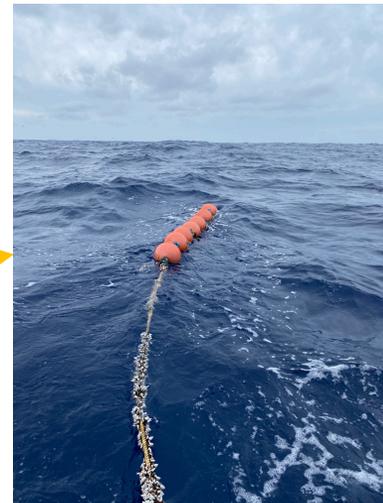
Installation Spotter



Installation Spotter



DCP





Mesurer les paramètres de vagues : Exemple à Bourail

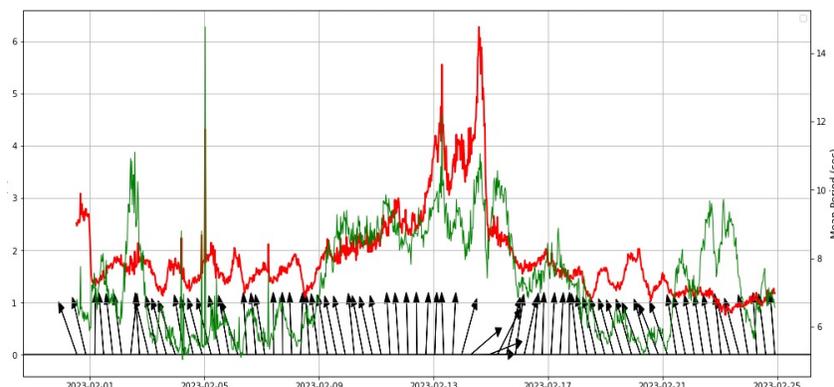
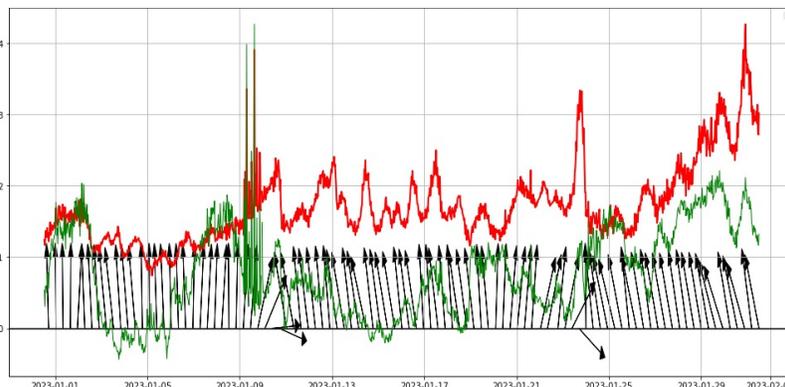
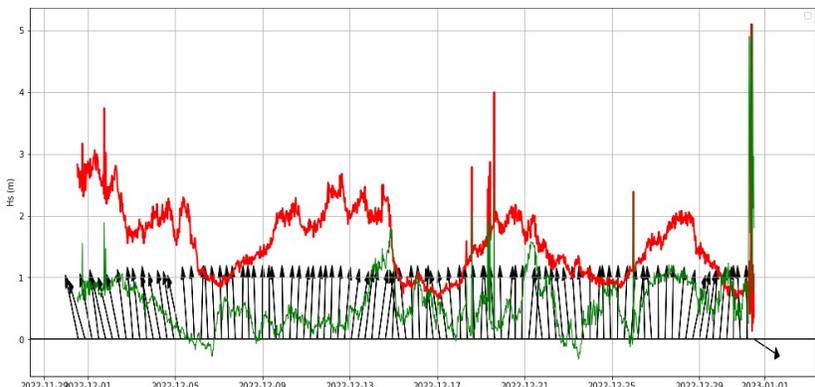
Hauteur, période et direction des vagues pendant 3 mois

**+ 6 m de
houle**

Décembre

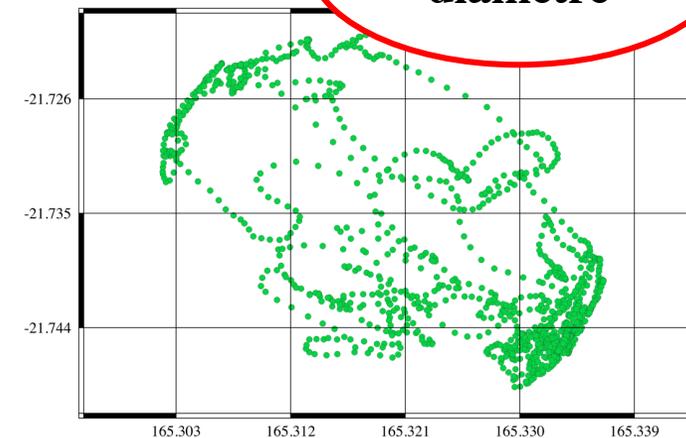
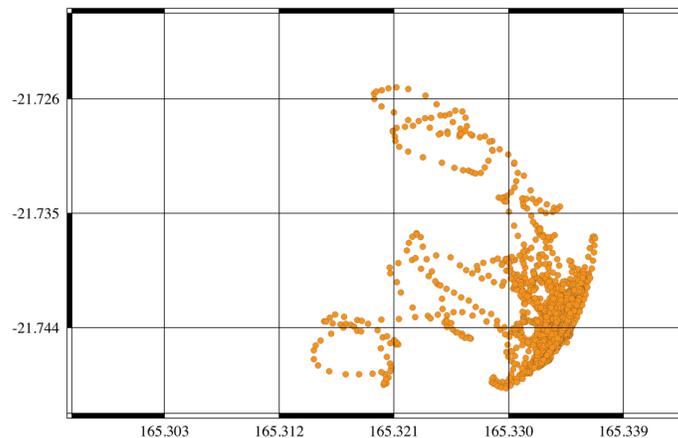
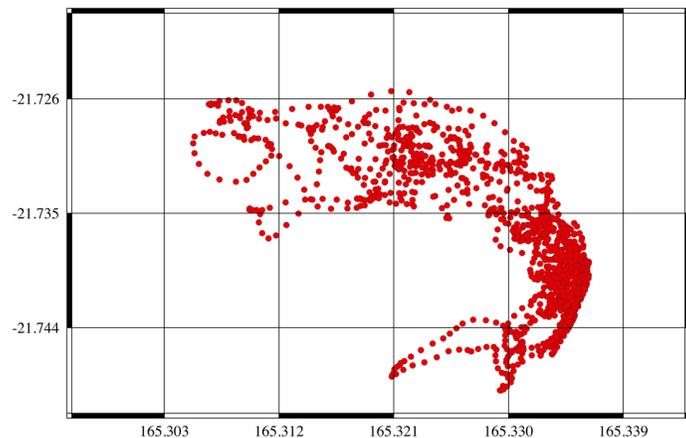
Janvier

Février



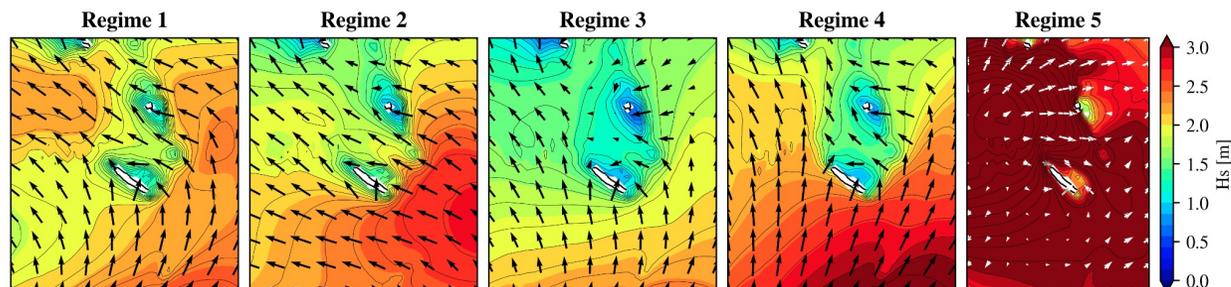
Position du DCP toutes les 30 minutes

**+ 3.5 km de
diamètre**

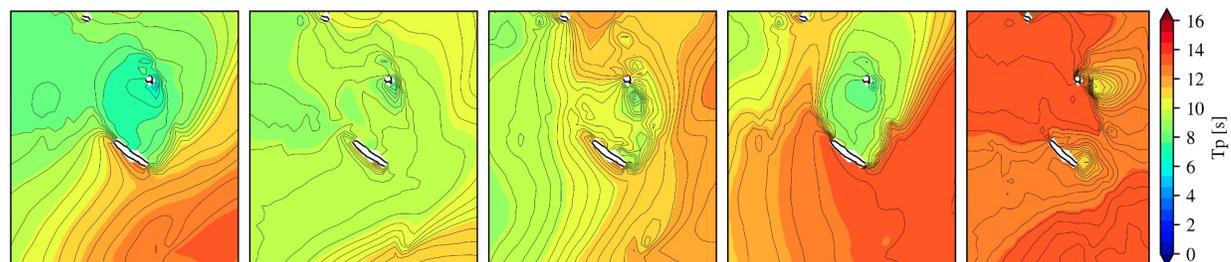


Validation du climat de vagues : Exemple en Nouvelle Calédonie (*Pagli et al. in prep*)

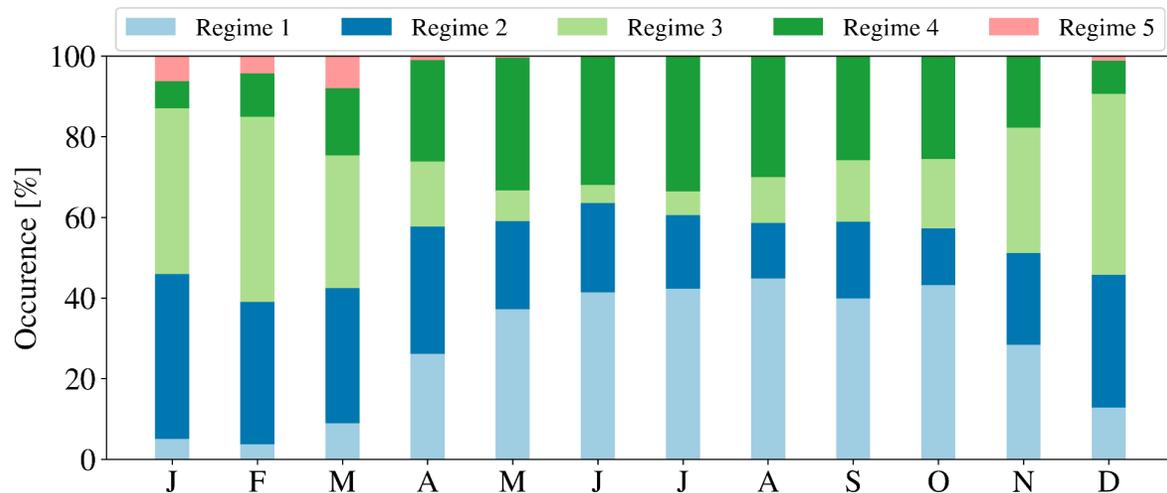
Hauteur (Hs) des vagues sur les 5 régimes



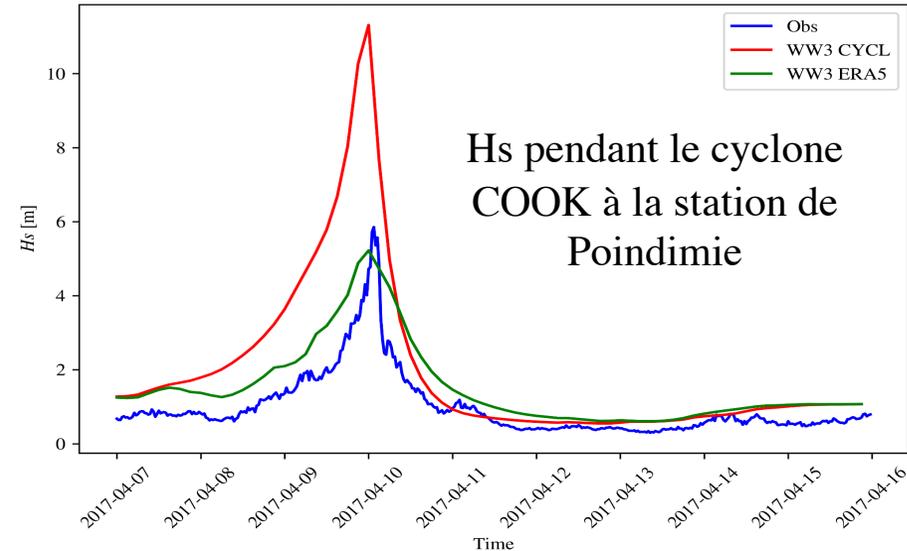
Période (Tp) des vagues sur les 5 régimes



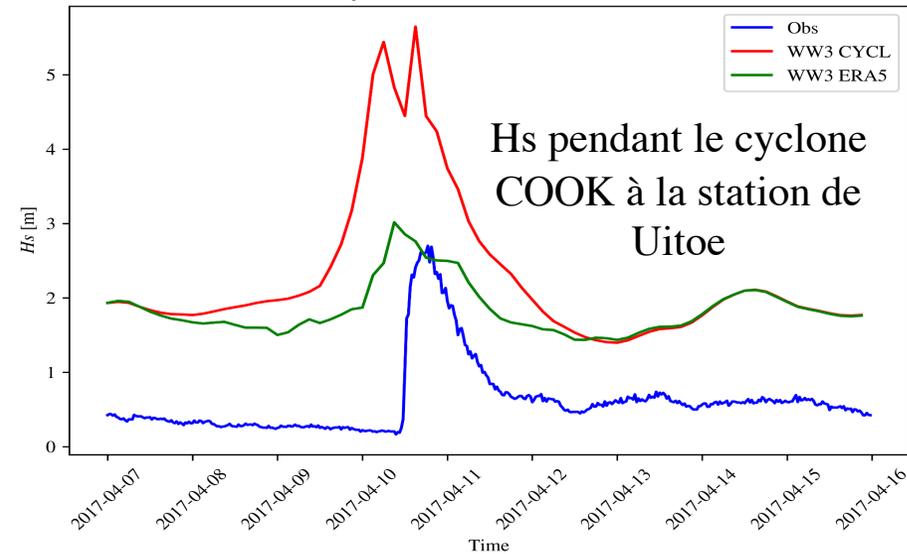
Occurrence mensuelle en % des 5 régimes de vagues



Cyclone : COOK - Poindimie sensor

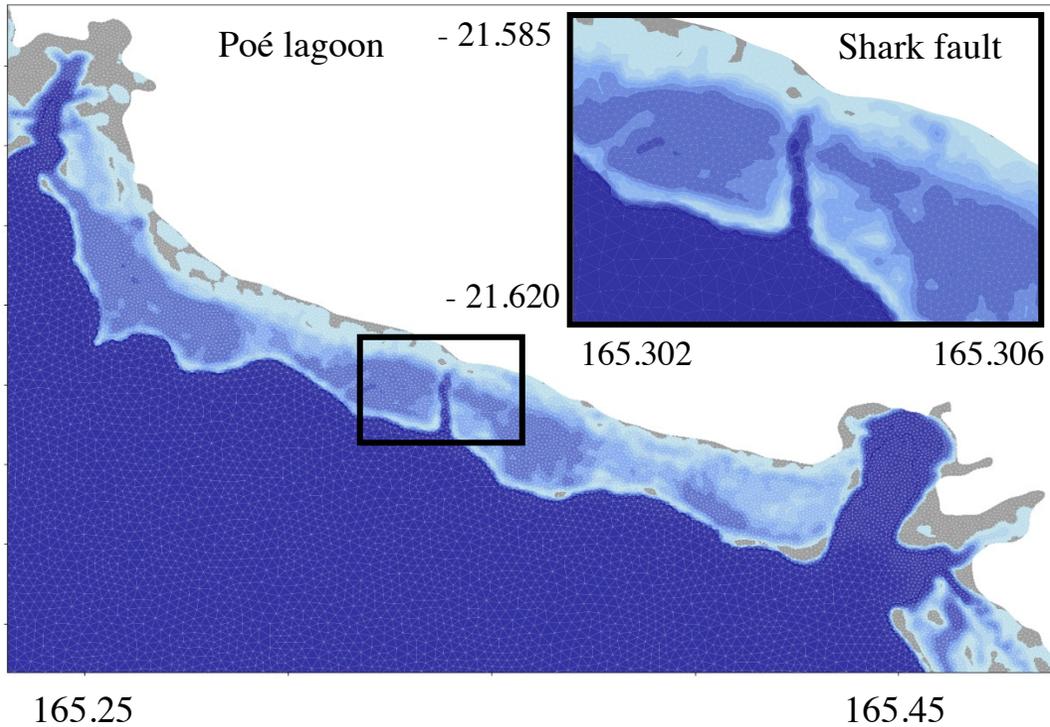
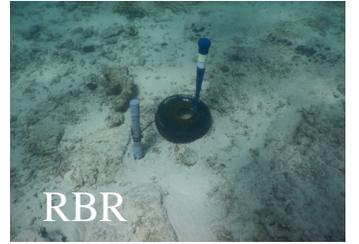
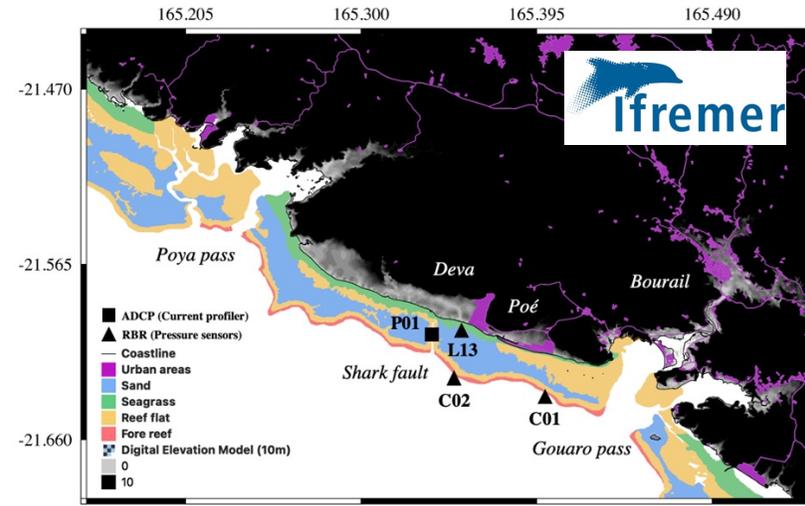
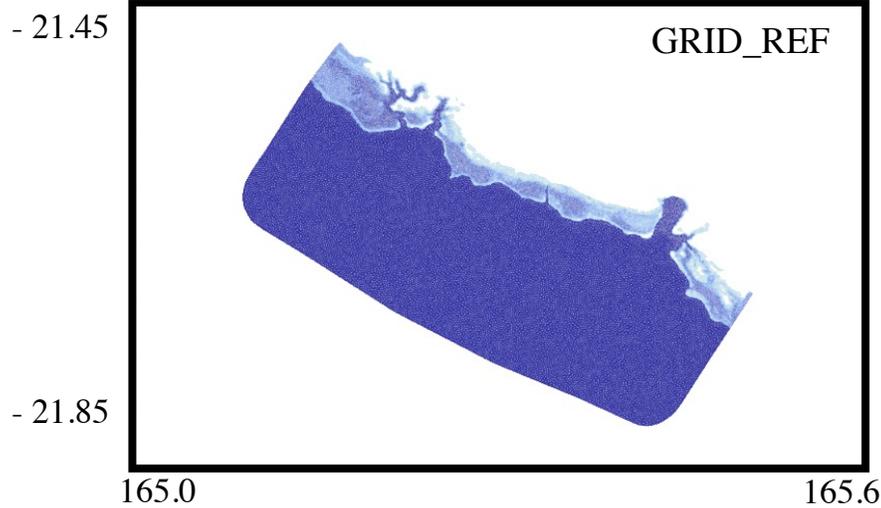


Cyclone : COOK - Uitoe sensor

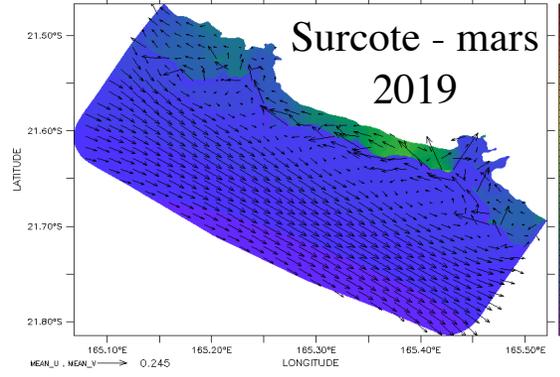
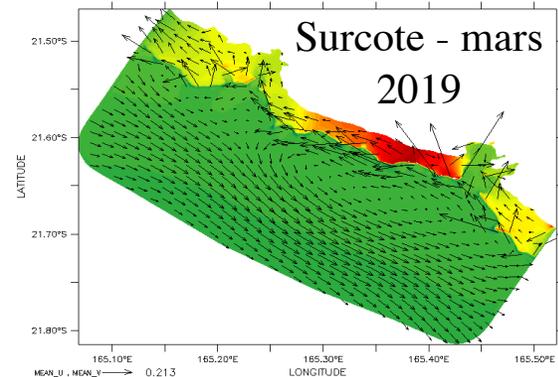
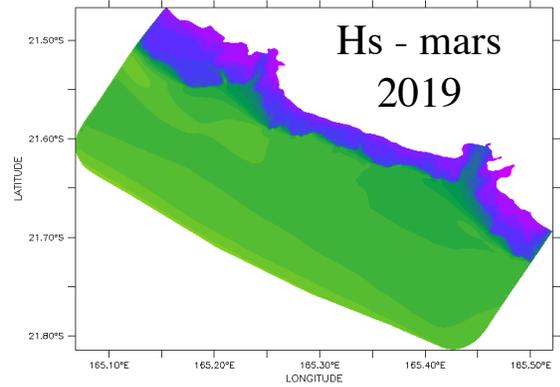
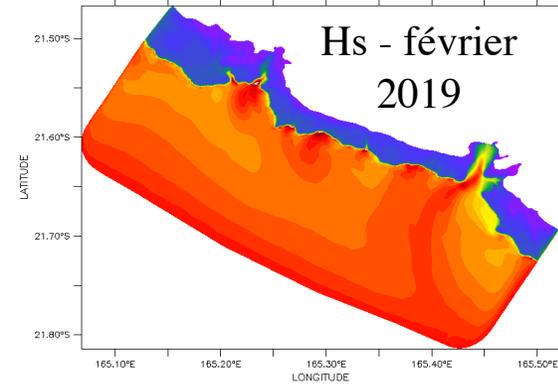
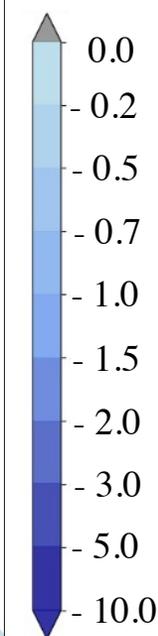


Validation de l'hydrodynamique dans le lagon : Exemple à Poé (*Duphil et al. in prep*)

Grille bathymétrique sur le lagon de Poé



Depth (m)

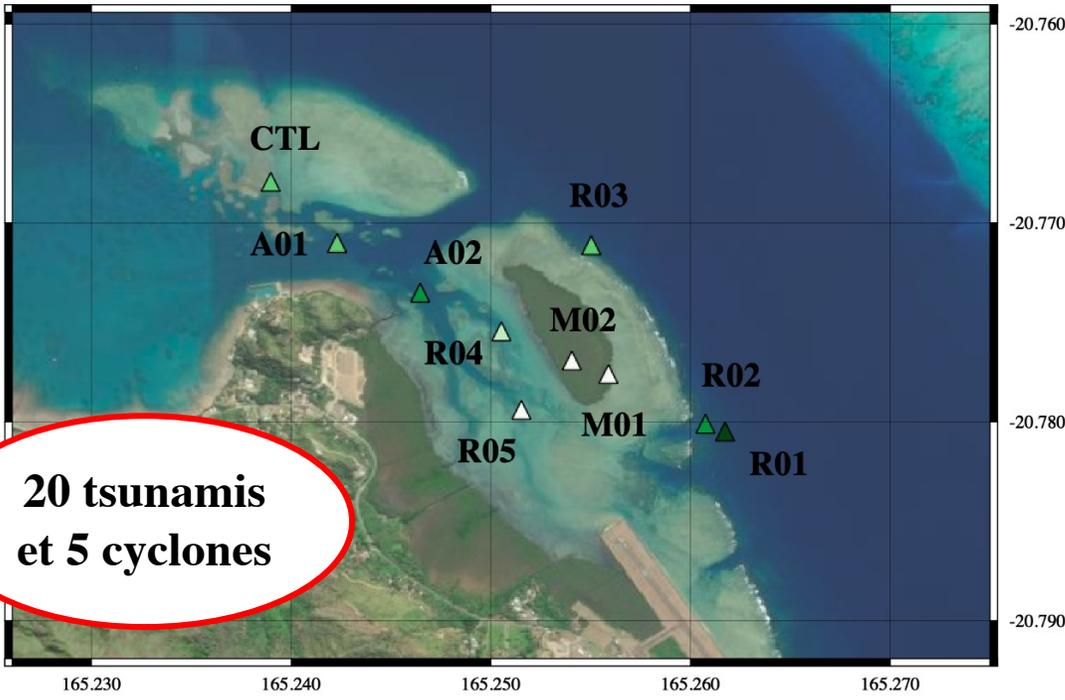
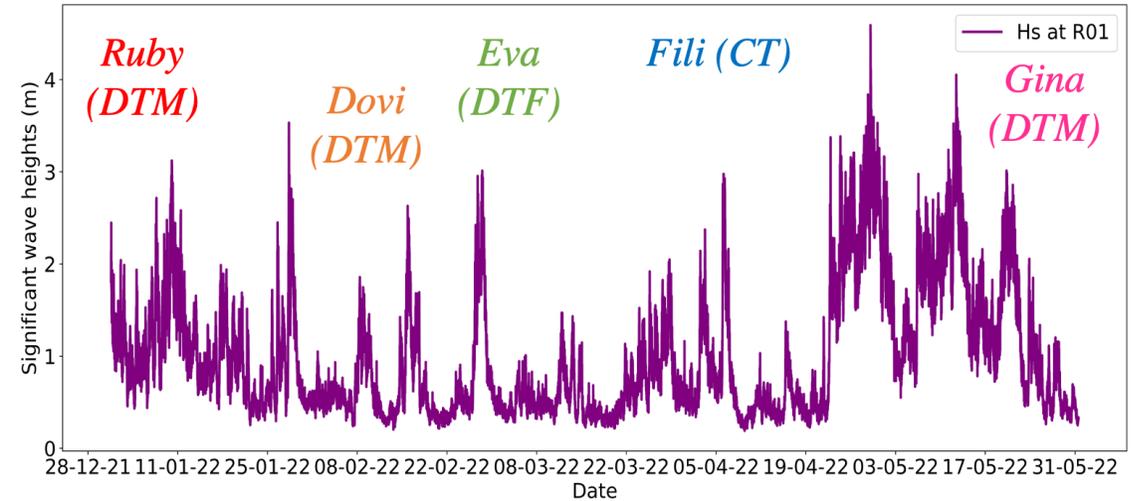


Validation de l'hydrodynamique dans le lagon : Exemple à Touho (*Duphil et al. in prep*)

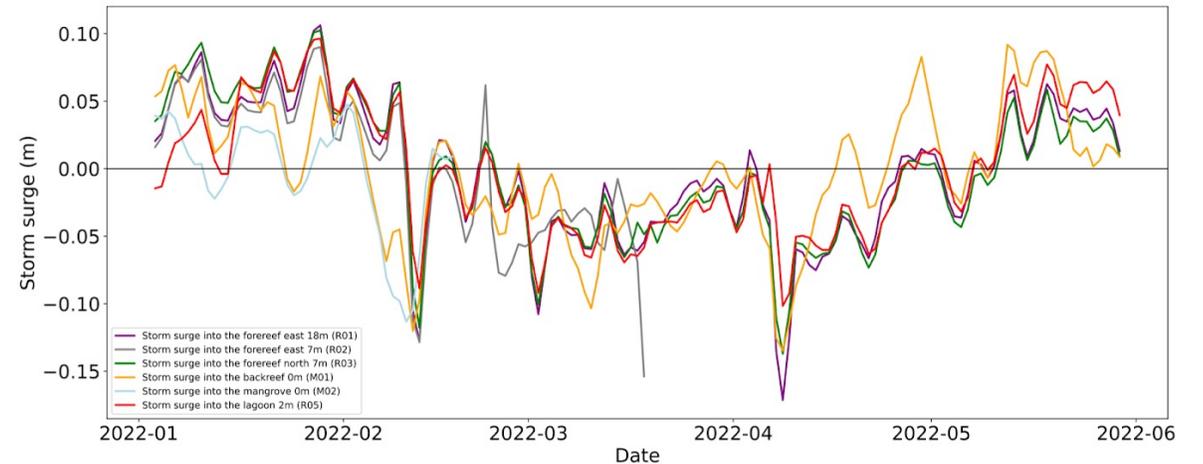
Localisation des instruments (RBR et ADCP)



Hs observés à la station pente externe



Surcote observée aux stations dans le lagon





Atelier ILICO Outre-Mer Pacifique



Nouméa, CPS, 14-17 mars 2023

- Présenté par **Maxime Duphil** : doctorant et gestionnaire houlographes NC
- Thèse en **vulnérabilité côtière** : observations in-situ et modélisation numérique



R2BAC
Réseau Régional Bulletin
Alerte Côtière

IRD
Institut de Recherche
pour le Développement
FRANCE

Pacific Community
Communauté
du Pacifique

HI-FAD

fish_wave_flow

**Highly
Instrumented
Fish Aggregating Devices**

Hi-FAD Project
April 2022

NEW ZEALAND
FOREIGN AFFAIRS & TRADE
Manatū Aorere

Pacific Community
Communauté
du Pacifique