

Liens entre observations et recherche dans le Pacifique

ATELIER ILICO OUTRE-MER PACIFIQUE



The Pacific Community Centre for Ocean Science



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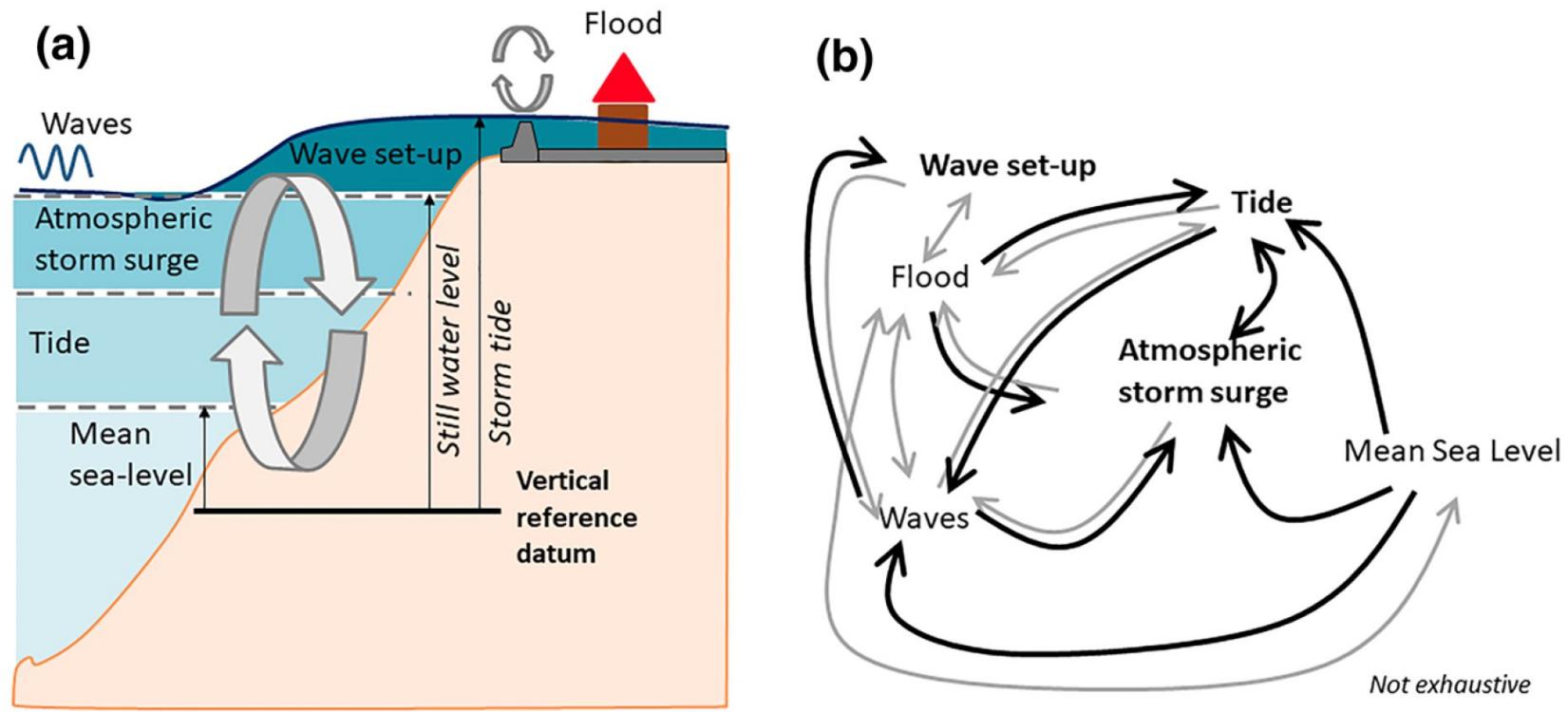
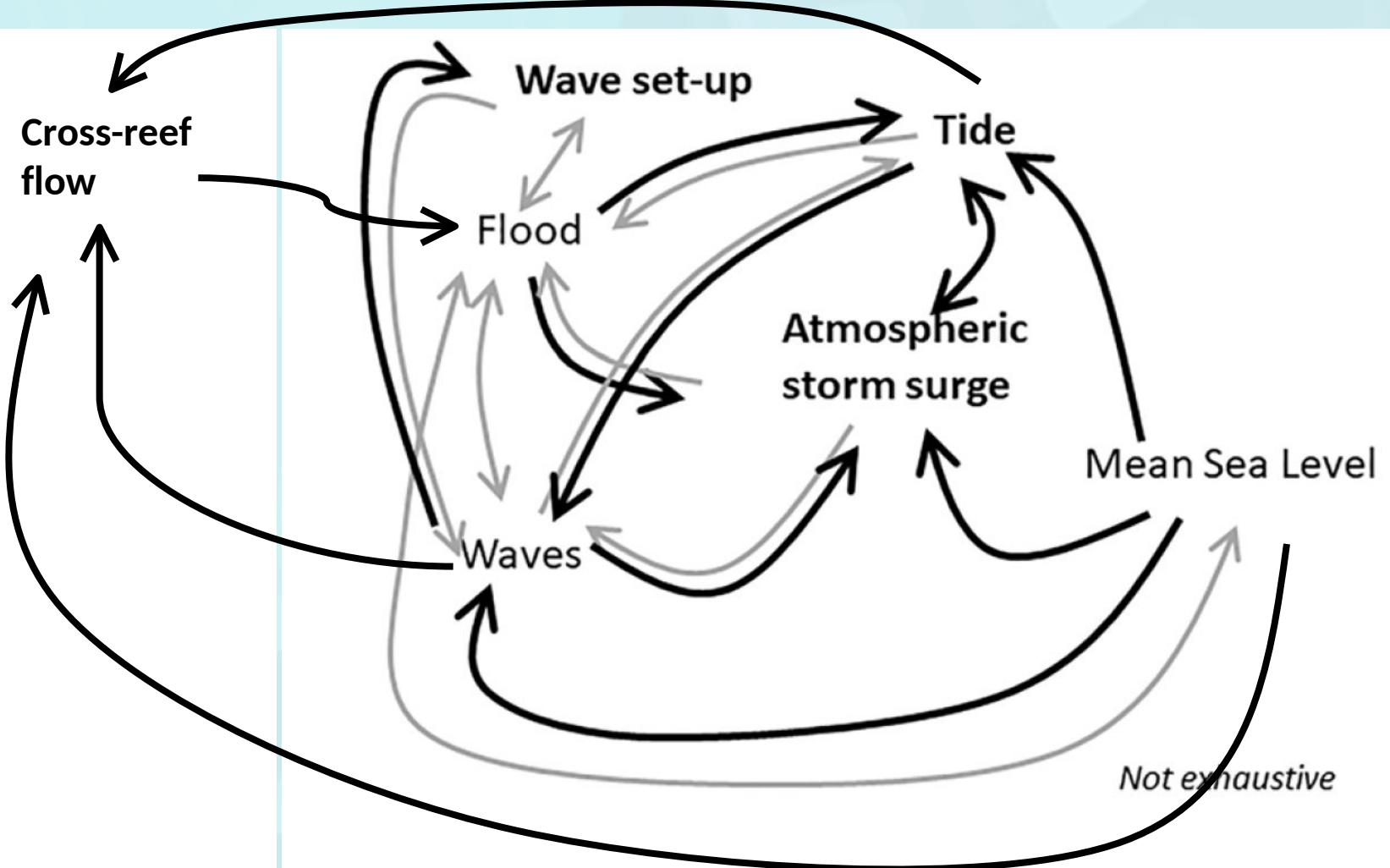


Fig. 1 **a** Components of storm tide, terminology and sketch of interactions. **b** Main interactions between mean sea level, waves, atmospheric storm surges, tide, wave setup and flooding. In bold and black: the focus of the present paper

Idier et al. 2019



Idier et al. 2019

Radiation stresses in water with appl

M. S. LONGUET-HIGGI

Wave-driven flow over shallow reefs

Graham Symonds

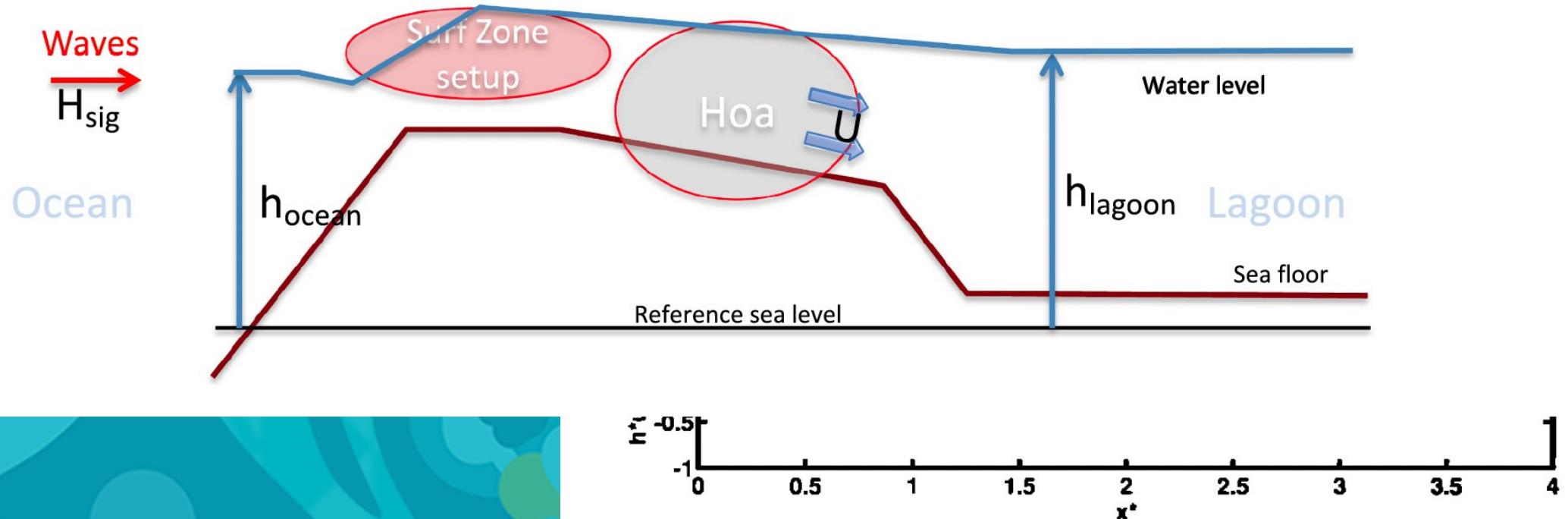
Department of Geography and Oceanography, University College, Australian Defence Force Academy
University of New South Wales, Canberra, Australian Capital Territory, Australia

Kerry P. Black

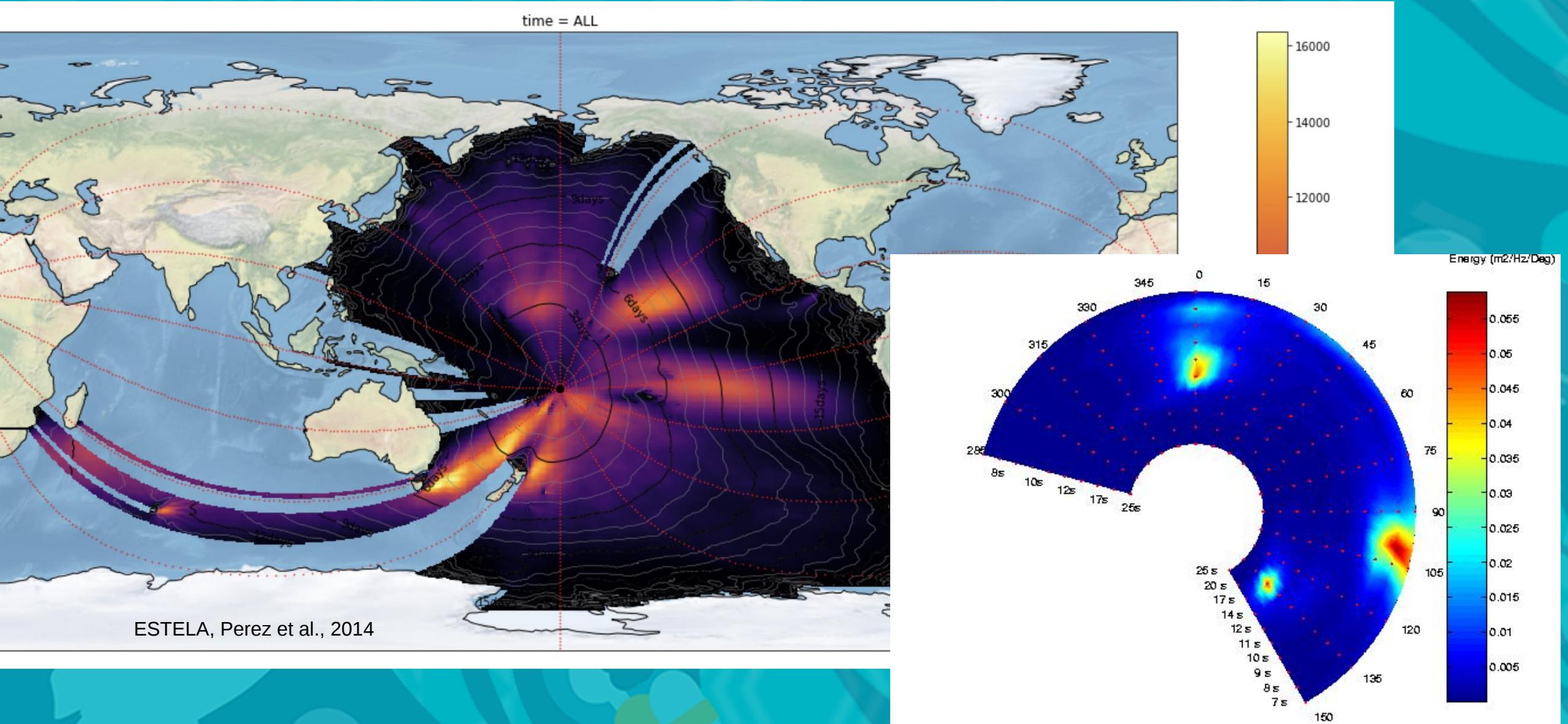
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Ian R. Young

Department of Civil and Maritime Engineering, University College, Australian Defence Force Academy
University of New South Wales, Canberra, Australian Capital Territory, Australia



Multiple source regions et multimodal sea-states



Islands are exposed to multiple swell sources

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Global and Planetary Change

Volume 108, September 2013, Pages 128-138



Widespread inundation of Pacific islands triggered by distant-source wind-waves

Ron K. Hoeke^a    , Kathleen L. McInnes^a, Jens C. Kruger^b, Rebecca J. McNaught^c, John R. Hunter^{d f}, Scott G. Smithers^e

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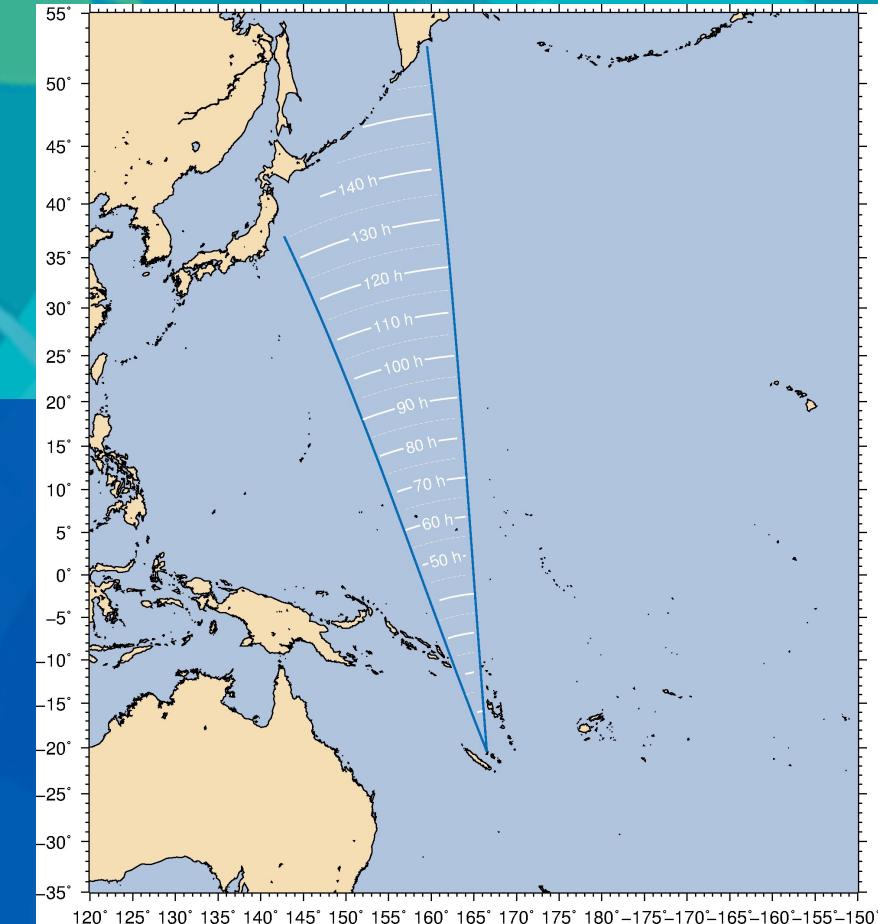
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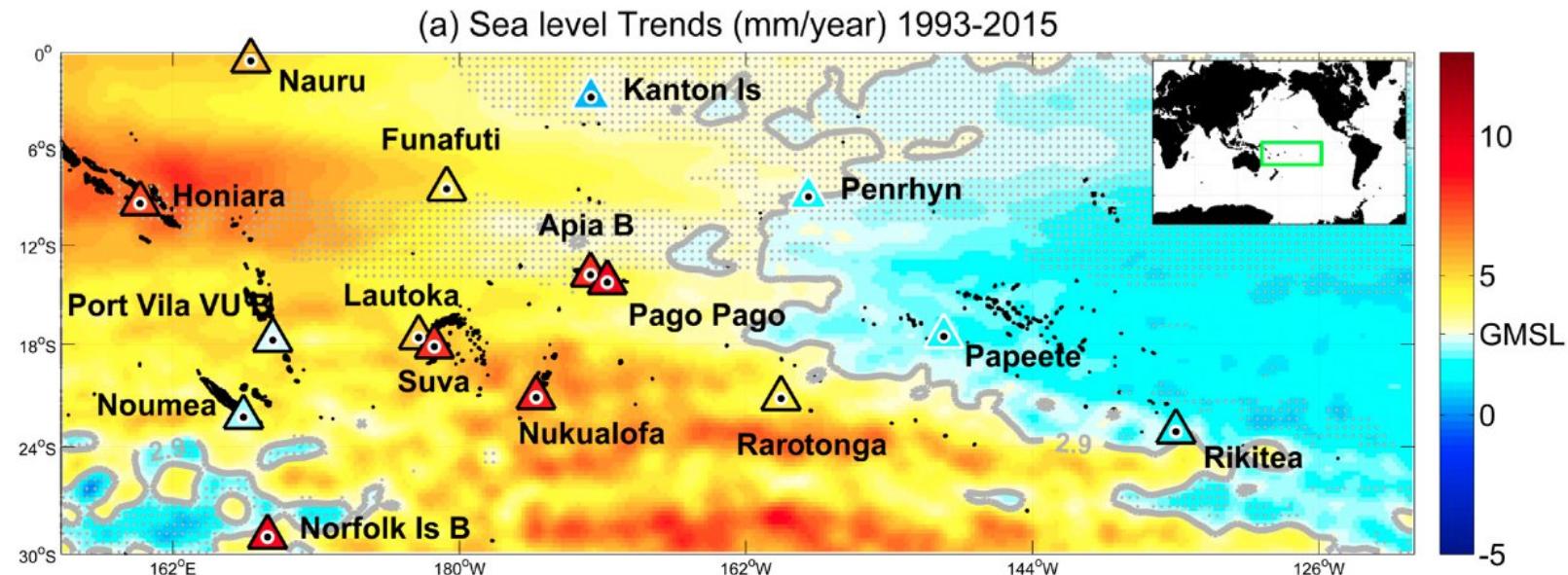
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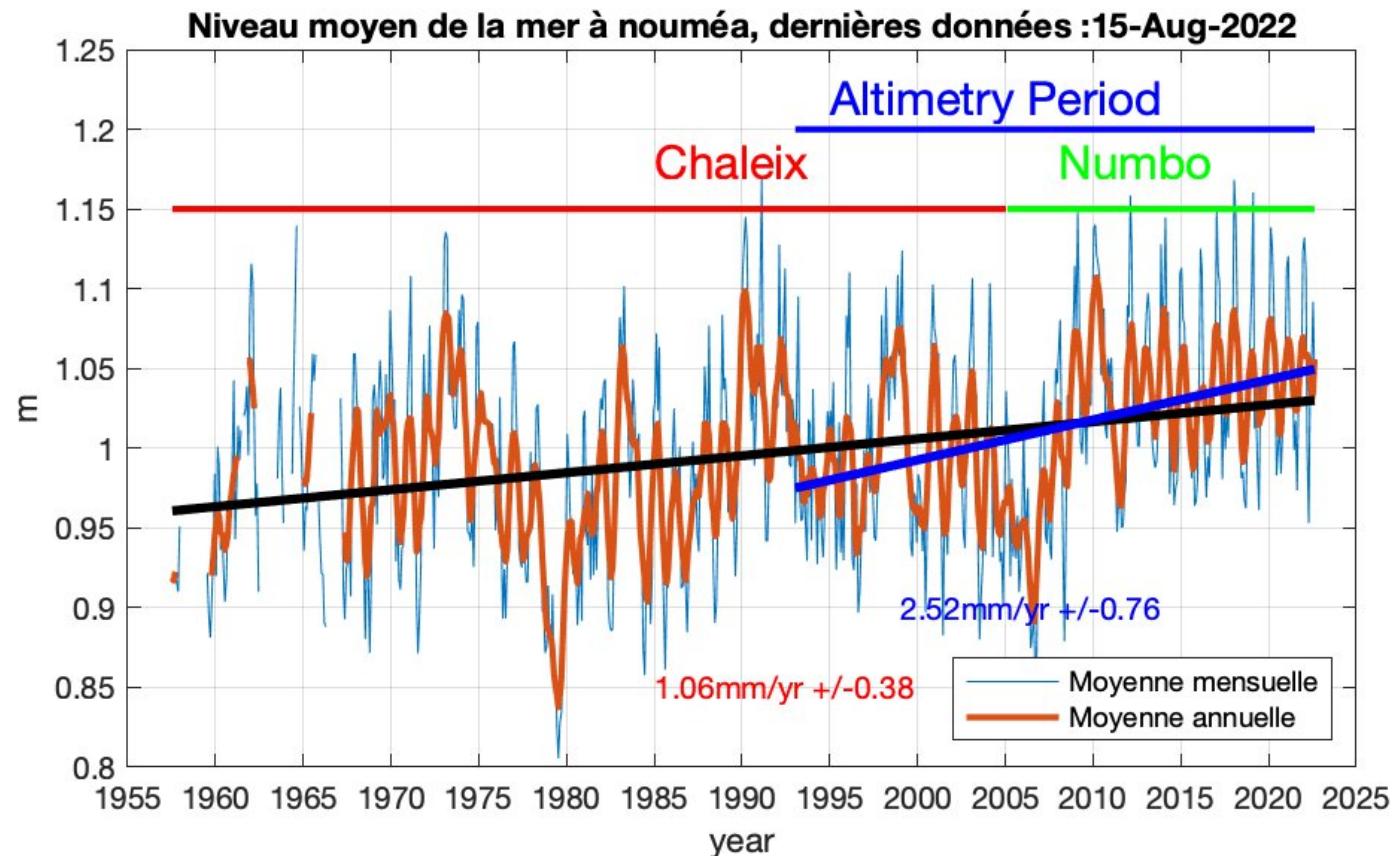
Absolute sea level, Relative Sea Level, and Vertical Land Movement

A. Martínez-Asensio, et al.

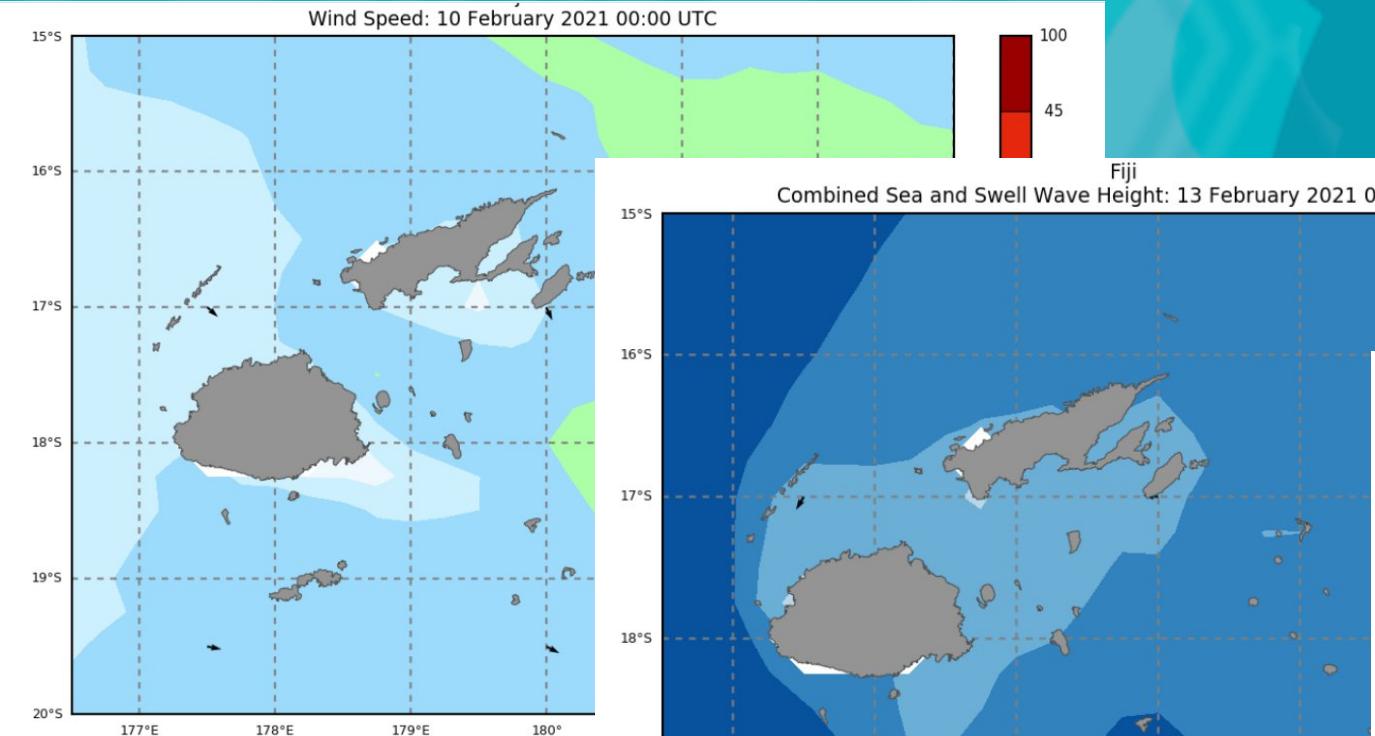
Global and Planetary Change 176 (2019) 132–143



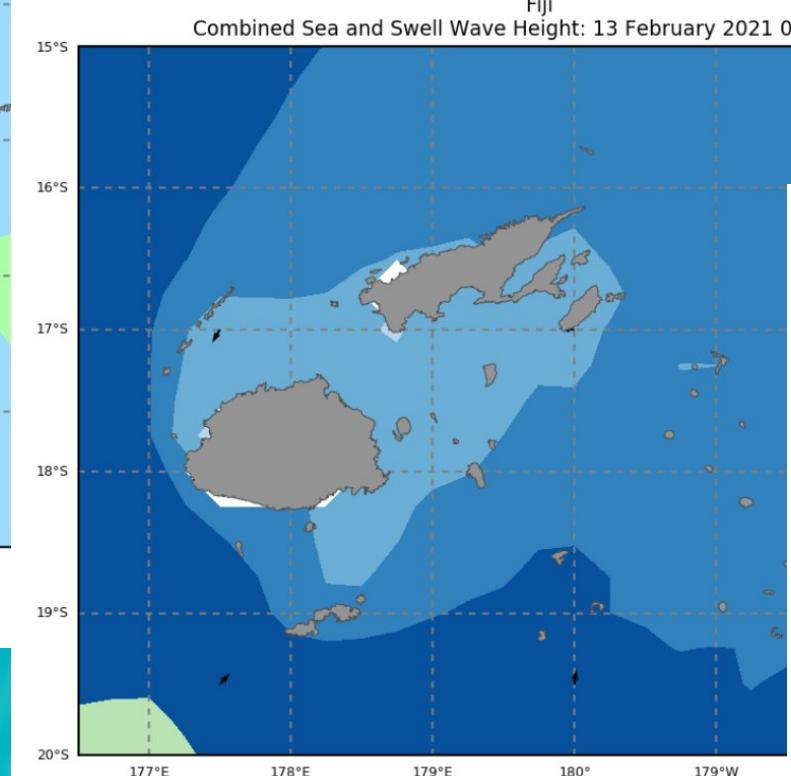
Interannual sea level variability



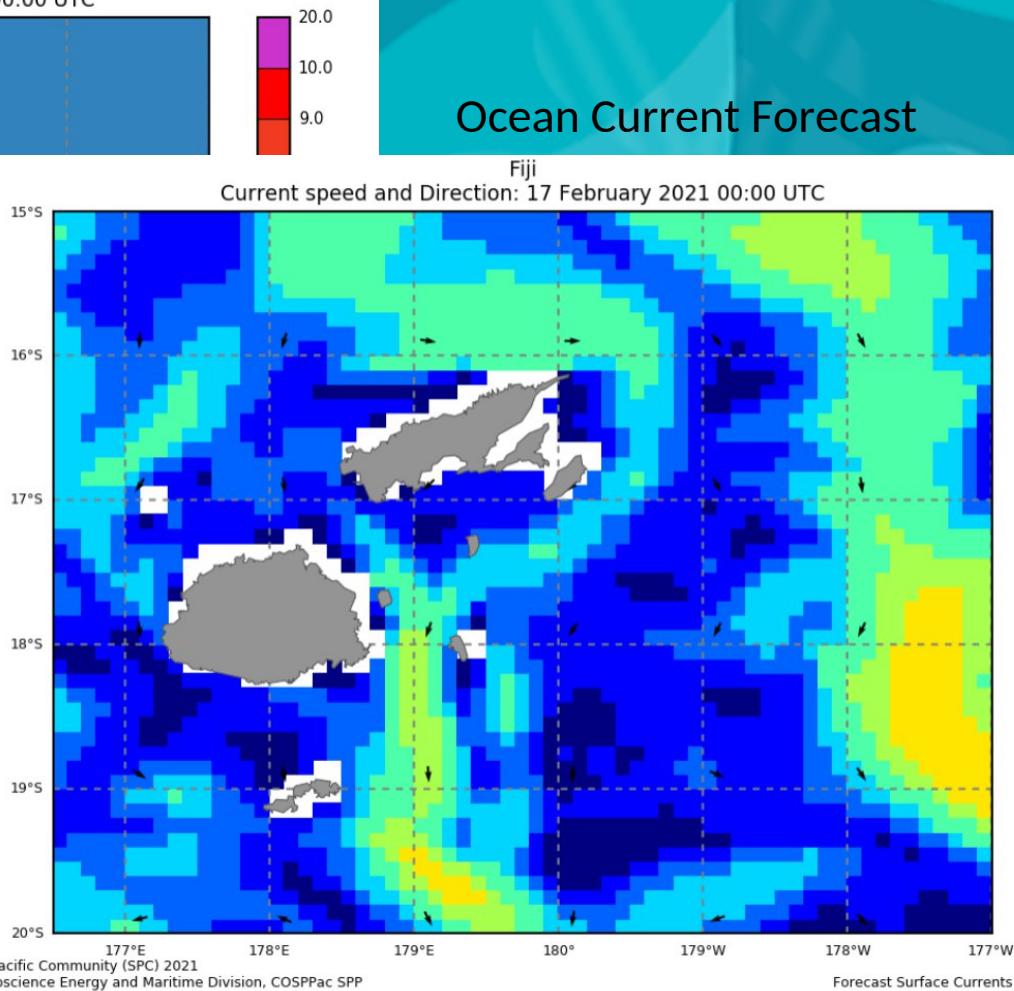
Global and regional ocean forecast products



Wind Forecast



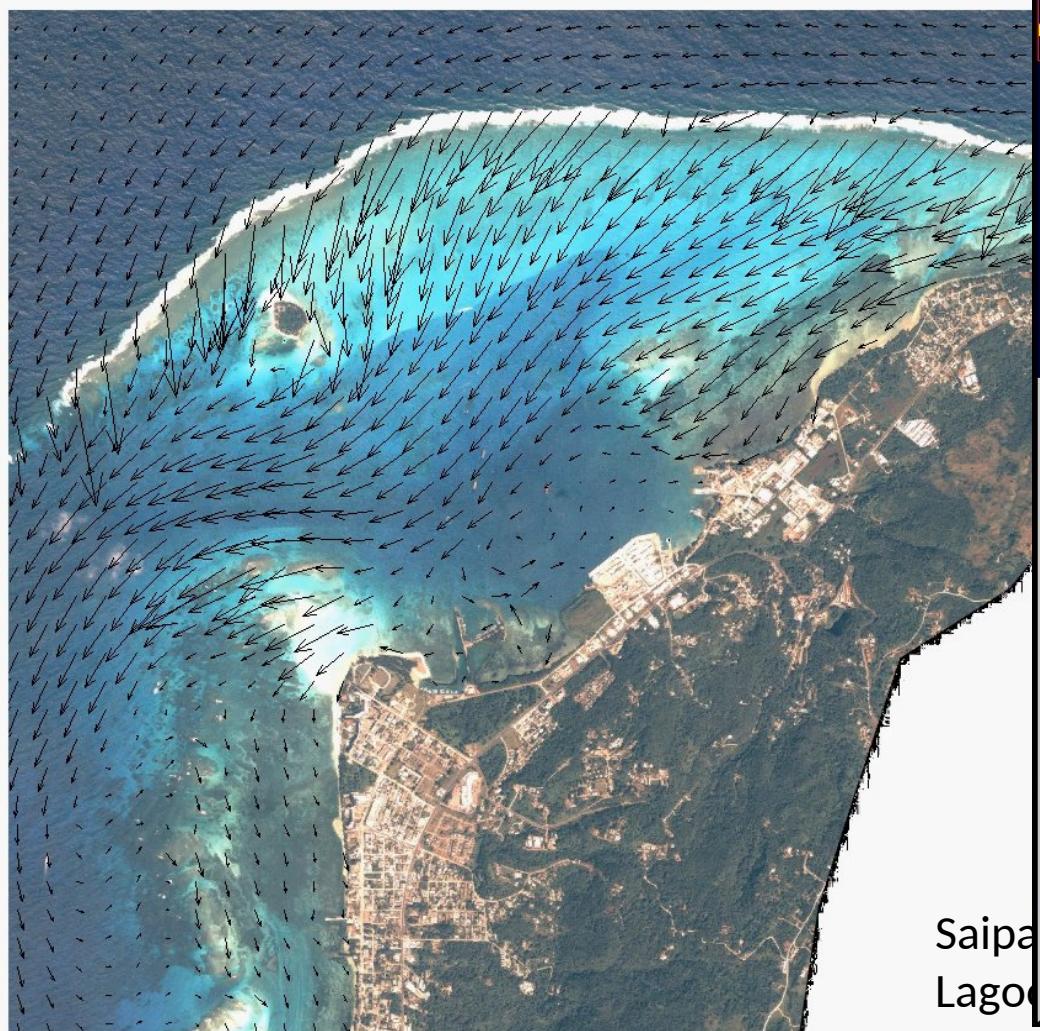
Wave Forecast



m/s

0.00
0.05
0.10
0.15
0.20
0.30
0.40
0.60
1.00
1.50
2.00
2.50

High Resolution Ocean Current

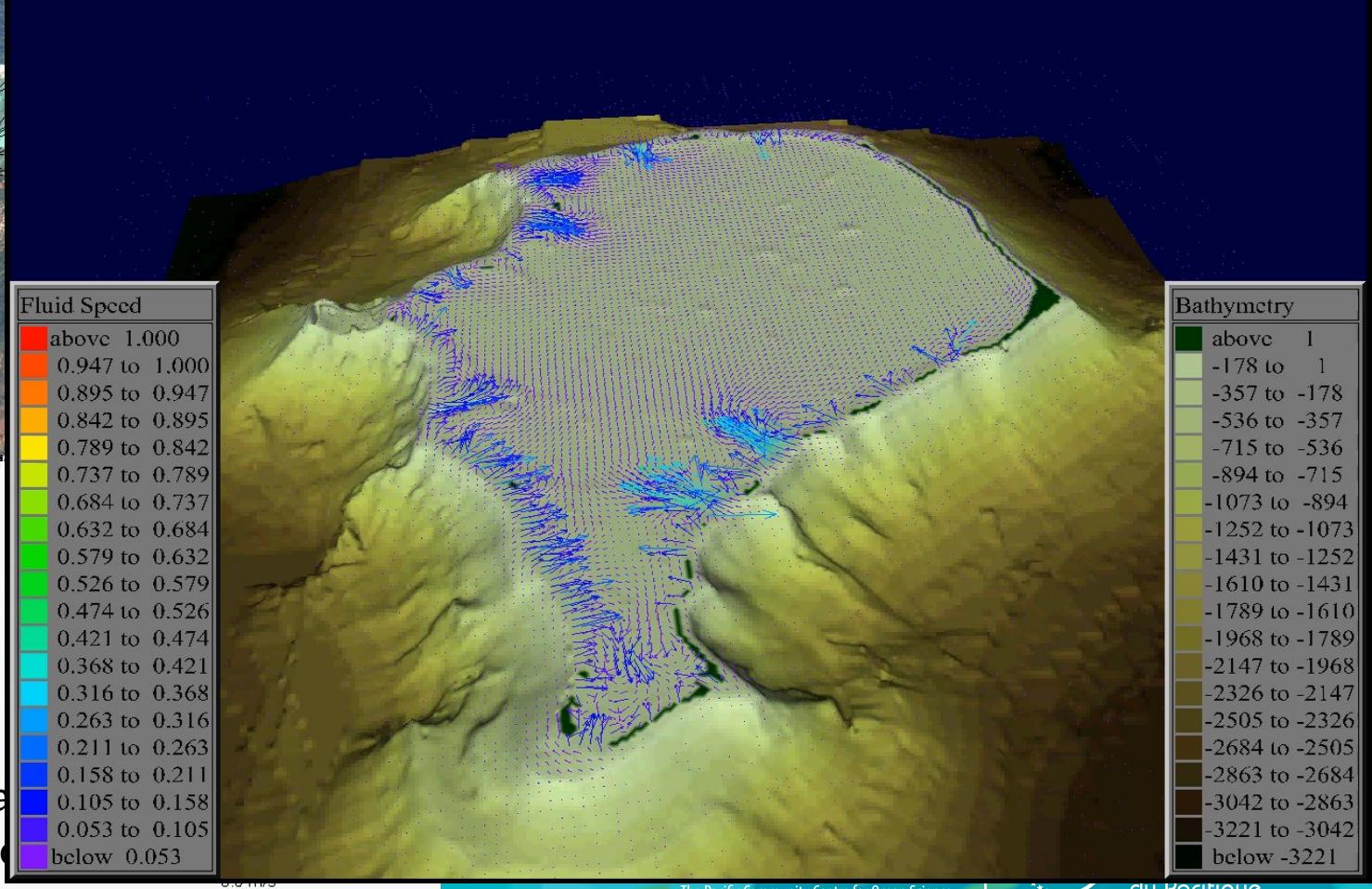


Saipan
Lagoon

NUMERICAL MODEL OF FUNAFUTI

Fluid Speed
above 1.000
0.947 to 1.000
0.895 to 0.947
0.842 to 0.895
0.789 to 0.842
0.737 to 0.789
0.684 to 0.737
0.632 to 0.684
0.579 to 0.632
0.526 to 0.579
0.474 to 0.526
0.421 to 0.474
0.368 to 0.421
0.316 to 0.368
0.263 to 0.316
0.211 to 0.263
0.158 to 0.211
0.105 to 0.158
0.053 to 0.105
below 0.053

0.0 m/s



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Funafuti Lagoon

Bathymetry
above 1
-178 to 1
-357 to -178
-536 to -357
-715 to -536
-894 to -715
-1073 to -894
-1252 to -1073
-1431 to -1252
-1610 to -1431
-1789 to -1610
-1968 to -1789
-2147 to -1968
-2326 to -2147
-2505 to -2326
-2684 to -2505
-2863 to -2684
-3042 to -2863
-3221 to -3042
below -3221

Tuvalu inundation forecast

