## The Multifractal Theory of Turbulence on the Oceanic Energy Flux between Scales: Supplementary Materials

Viktor G. Gea<sup>1</sup>, Jordi Isern-Fontanet<sup>1,2</sup>, Lionel Renault<sup>3</sup>, and Antonio Turiel<sup>1,2</sup>

viktorg@icm.csic.es

<sup>1</sup>Institut de Ciències del Mar, ICM-CSIC, Barcelona, Spain <sup>2</sup>Institute Català de Recerca per a la Governança del Mar, Barcelona, Spain <sup>3</sup>LEGOS, Université de Toulouse, CNES-CNRS-IRD-UPS, Toulouse, France

## Figures with Alternative Colours

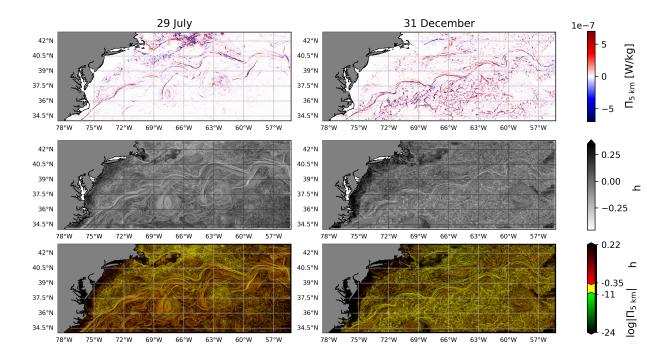


Figure 1: Local flux of energy across the scale  $r=5~\mathrm{km}$  (top), singularity exponents of surface velocity gradients (middle) and combination of the logarithm of the absolute flux in green with the singularity exponents in red (bottom) for a snapshot of the 29th of July (left) and the 31st of December (right). Green areas correspond to regions with relatively larger energy fluxes, red areas correspond to regions with relatively more negative singularity exponents, and yellow areas correspond to intermeshed to highlight the overlap between larger energy fluxes and more negative singularity exponents.

To aid the visualization of Figure 1 in the case of colour blindness, alternative Figures 2 and 3 have been generated using the rest of RGB basic colour combinations.

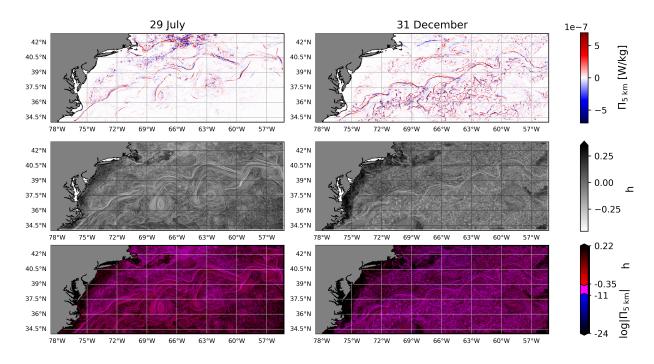


Figure 2: Alternative to Figure 1 using blue for the logarithm of the absolute flux between scales and red for the singularity exponents, whose combination is magenta.

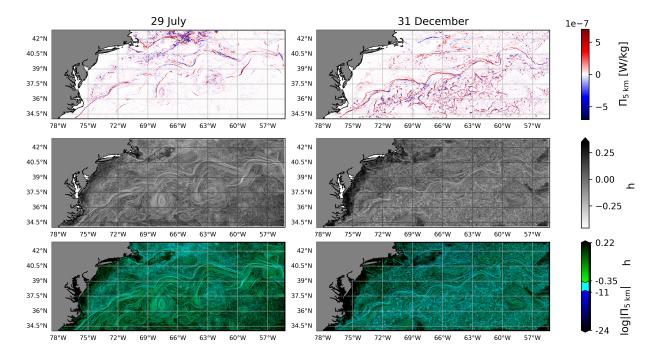


Figure 3: Alternative to Figure 1 using blue for the logarithm of the absolute flux between scales and green for the singularity exponents, whose combination is cyan.