



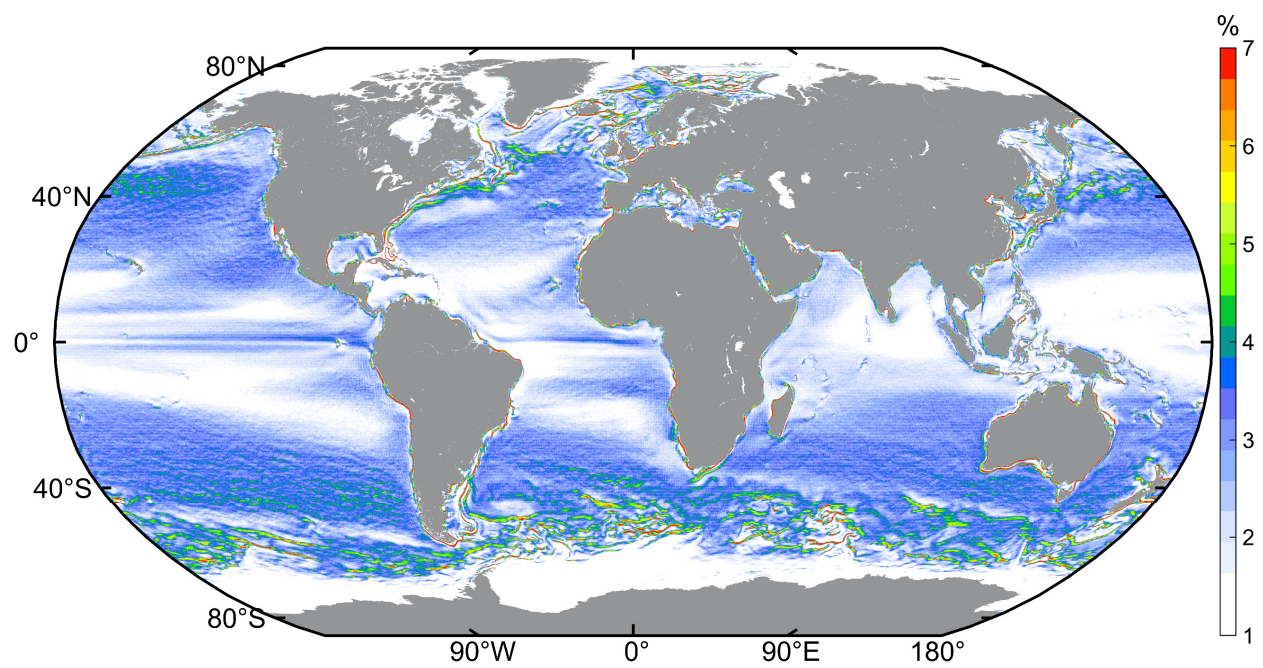
## *Supplement of*

# **A global daily mesoscale front dataset from satellite observations: in situ validation and cross-dataset comparison**

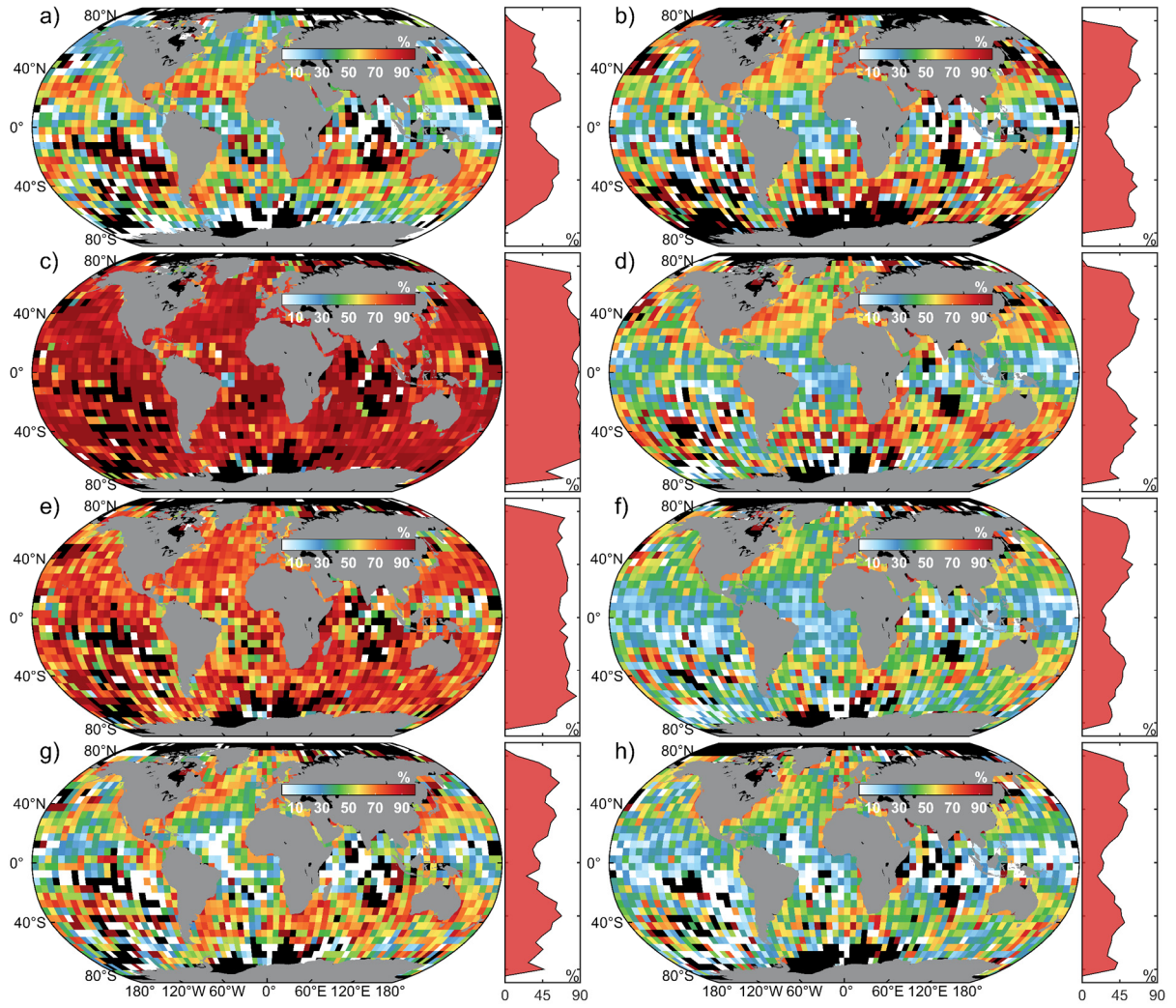
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**Figure S1: Long-term frontal occurrence frequency from ESA SST (1982–2023) using the global front detection algorithm without random windows.**



**Figure S2: Statistical indicators of fronts derived from different datasets. a), c), e), and g) represent the hit rate for MODIS, REMSS, GLORYS, and HadGEM3-detected fronts, respectively, while (b), (d), (f), and (h) show their corresponding precision values.**