



Supplement of

A T-DINEOF model for multiple oceanic variables reconstruction

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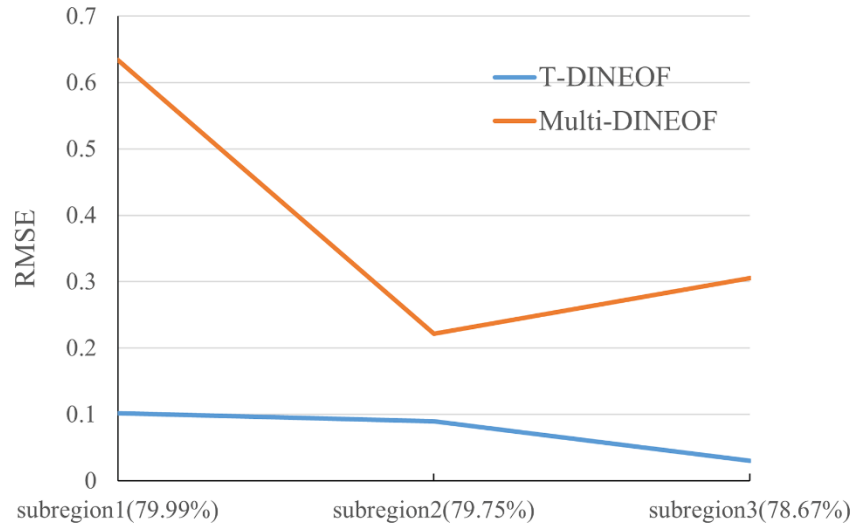


Fig. S1 RMSEs in the three subregions based on the daily datasets (Jan-Mar 2022), reconstructed using the T-DINEOF and Multi-DINEOF methods. Values in parentheses indicate the overall missing-data ratio.

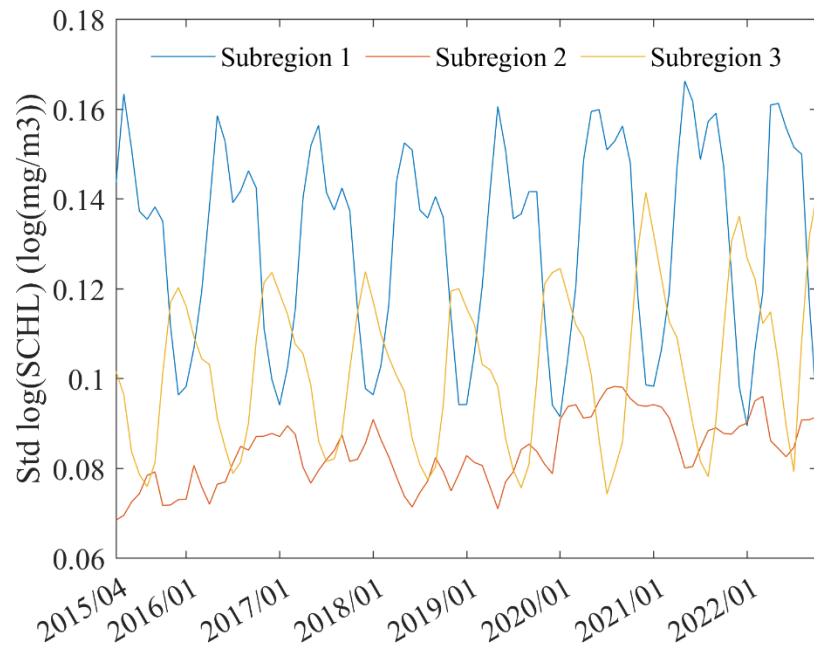
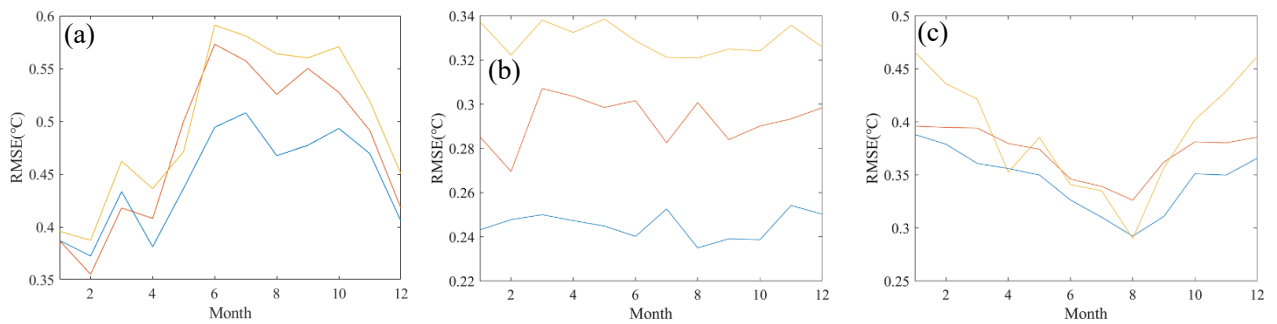


Fig. S2 Temporal standard deviation (std) of log(SCHL) in the three study regions.



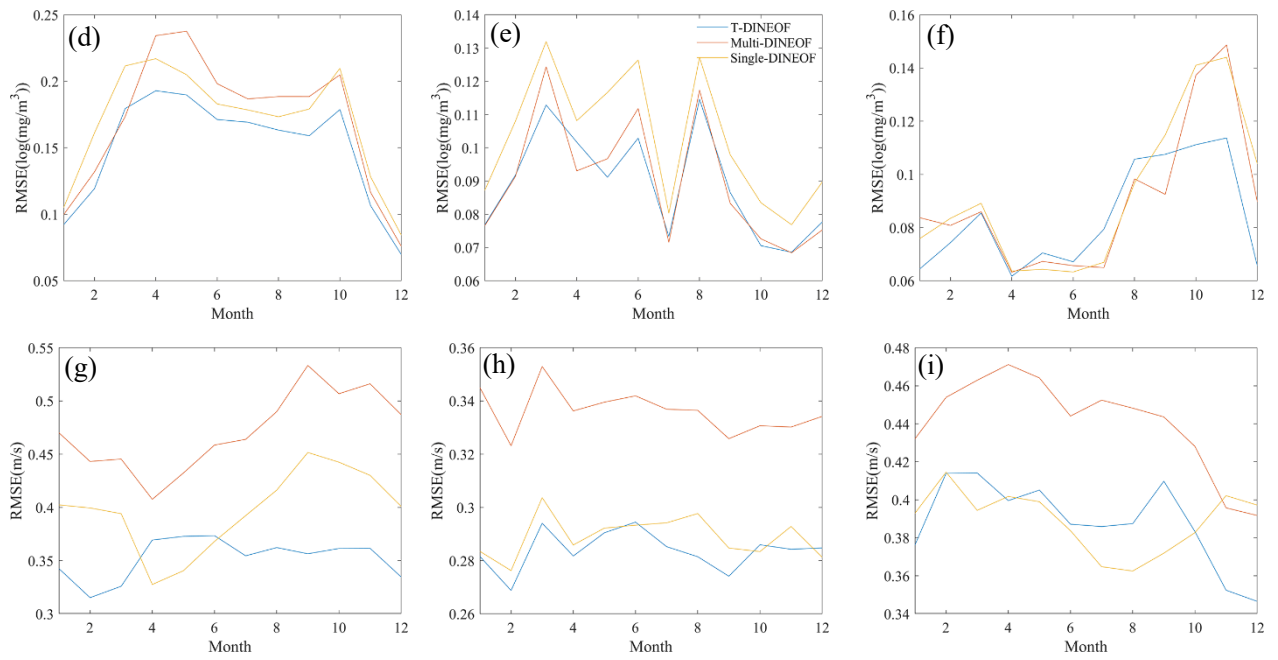


Fig. S3 Monthly RMSEs for (a-c) SST, (d-f) SCHL, and (g-i) SSW in subregions 1-3 (from left to right).

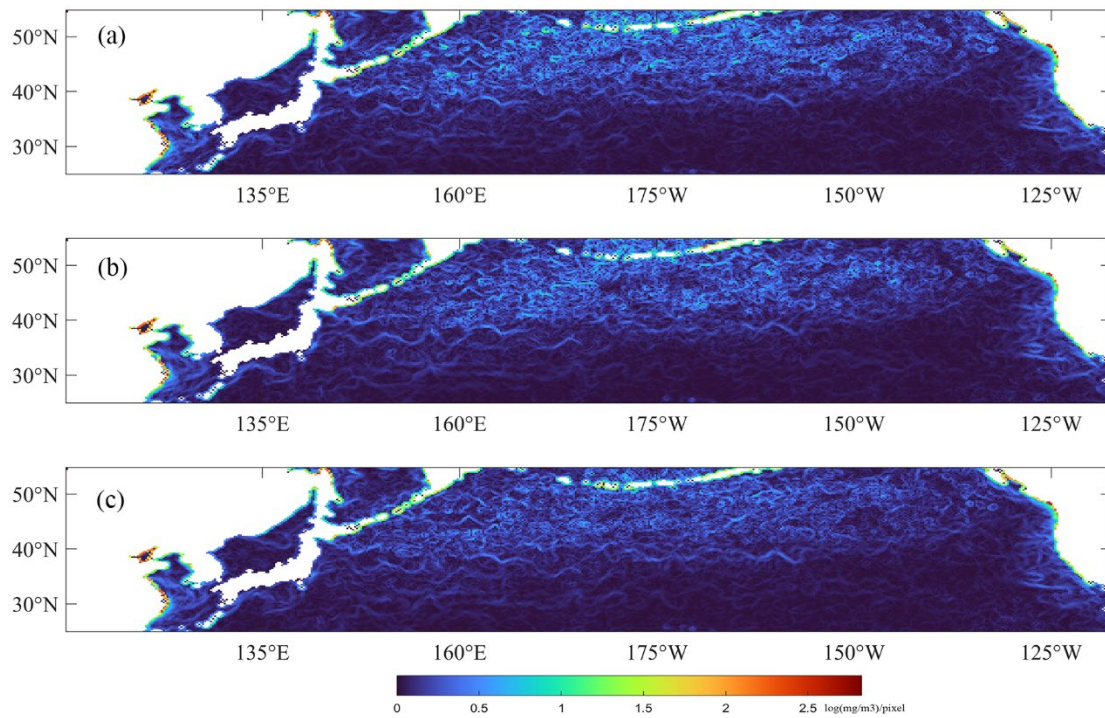


Fig. S4 Gradient maps of SCHL for July 2021 in the northern Pacific obtained from (a) Multi-DINEOF, (b) Single-DINEOF, and (c) T-DINEOF.

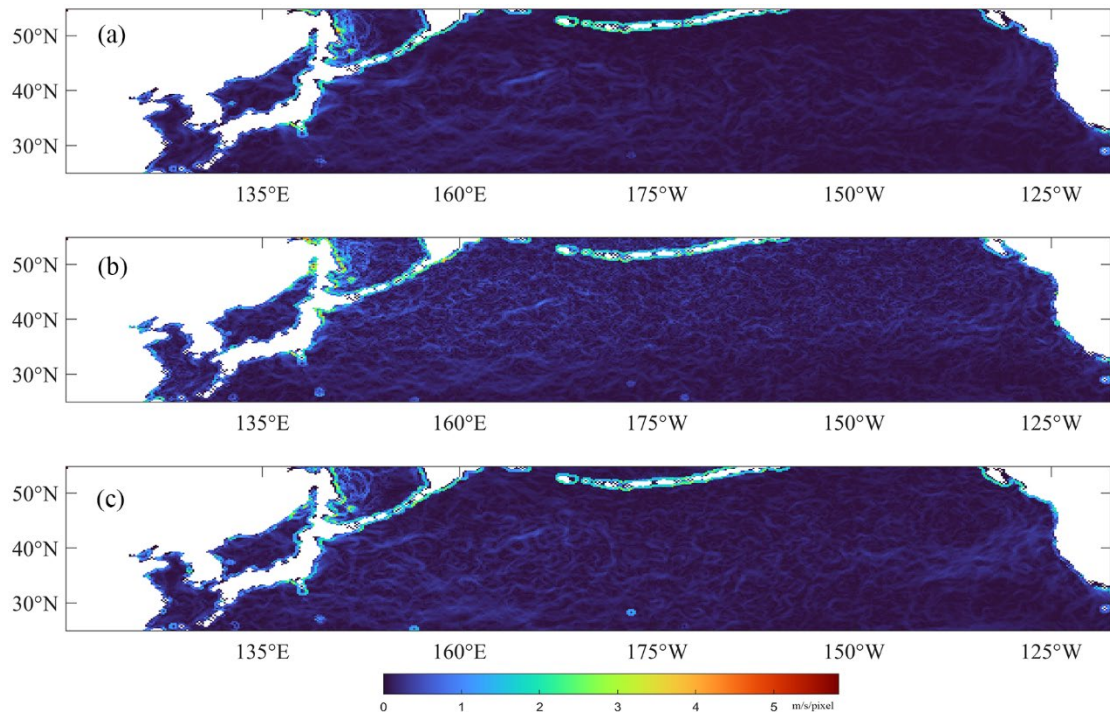


Fig. S5 Gradient maps of SSW for January 2020 in the northern Pacific obtained from (a) Multi-DINEOF, (b) Single-DINEOF, and (c) T-DINEOF.