AGU PUBLICATIONS

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Supporting Information for

Estimating phytoplankton primary productivity in the Changjiang estuary, East China Sea from coupled Fast Repetition Rate (FRR) fluorometry and Chlorophyll-a measurements

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Introduction

Two figures have been added to support our main text. Figure S1 is a scatter plot of Repetition Rate (FRR) fluorometry, FRRf-derived F_o and Chl-a, providing the regression

function between these two parameters. This correlation demonstrated that the Chl-a can be directly estimated by FRRf. Figure S2 presents comparisons between model estimates of net PP values and *in situ* measured values, which were used to evaluate the performance of our model.
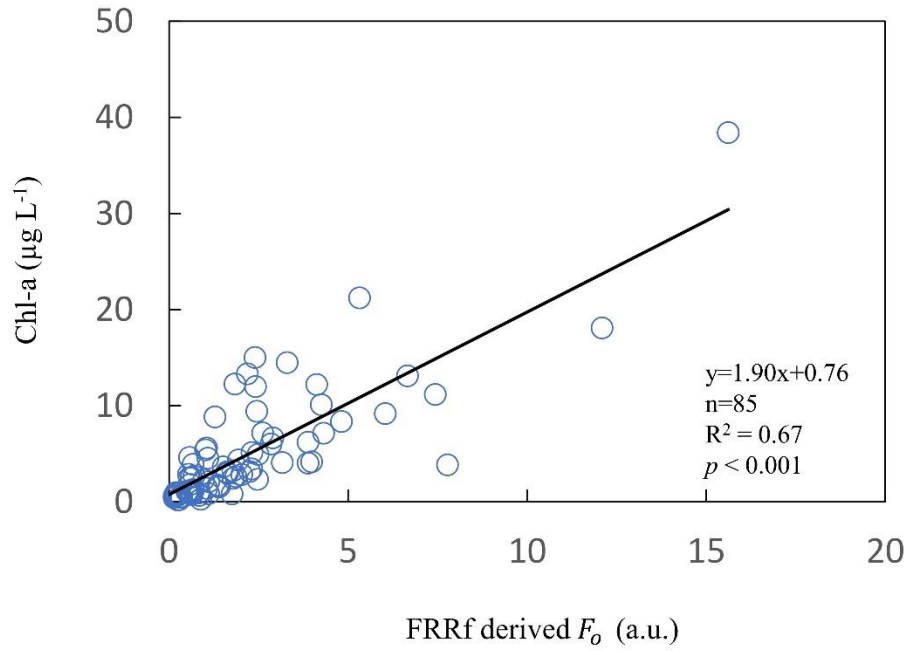

Figure S1. Scatter plots of FRRf-derived F_o and Chl-a (mg m^{-3}) collected during two cruises in the summertime Changjiang estuary, ECS). The equation is derived from linear regressions.
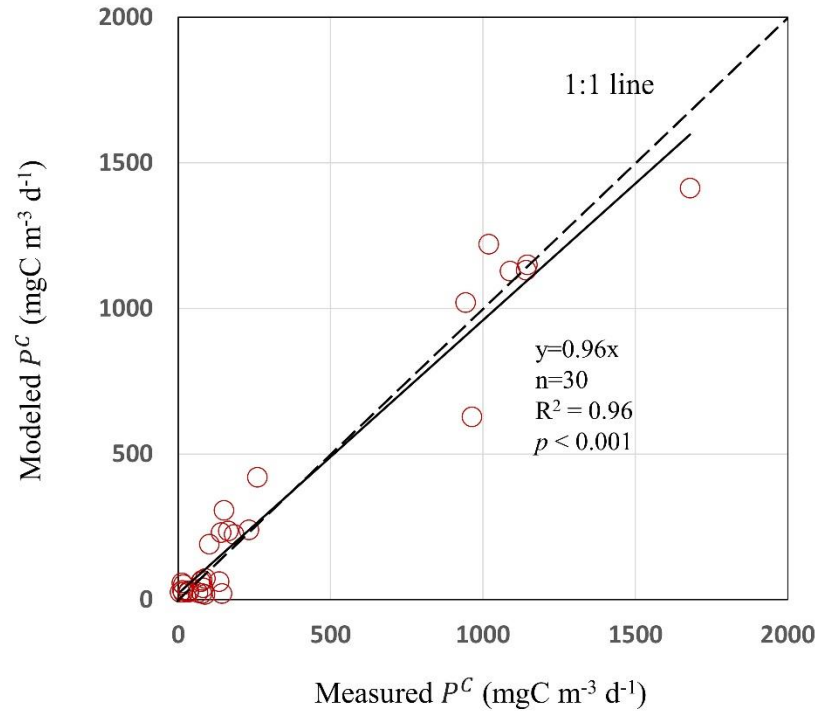
Figure S2. Comparisons between *in situ* measured net primary productivity (PP) and the estimates from the best fitting generalized additive model (GAM). The solid line represents the linear regression fit and the dashed line indicates the 1:1 line.