Supplementary Information for:
Quantification of multiple simultaneously occurring nitrogen flows in the euphotic ocean
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Supplementary Figure 2. The STELLA model (Version 9.14) for low nutrient case.

Legends for supplementary figures
Supplementary Figure 1. The STELLA model (Version 9.14) for high nutrient case. The Fi (i = 1~8) indicates rate of the relevant N processes. By multiplying F with corresponding time variable (i.e., rNH4, rNO2, rNO3 and rPN) the F of 15N (i.e., Fi15) can be obtained. Similarly, Fi14 can be obtained by multiplying F by (1−r). Meanwhile, NH4+, NO−2, NO−3 and PN pools were separated into two compartments (i.e., 14N and 15N). DON leakage is the residual of mass conservation.

Supplementary Figure 2. The STELLA model (Version 9.14) for low nutrient case. The Fi (i = 1~6) indicates rate of the relevant N processes. Yet, Fi is determined by rate constant (ki, i = 1~5) and reactant concentration, which is a time variable. Fractionation between 14N and 15N was not considered, thus, ki is for both 14N and 15N. Similar to high nutrient case, NH4+, NO−2, NO−3 and PN pools were separated into two compartments (i.e., 14N and 15N). DON leakage is the residual of mass conservation. The output, delta, in this case stands for δ15N.

Supplementary figures
Fig. S2