Table 1. Net mean property fluxes for CalCOFI Box Model, with standard errors (in parentheses), computed from CalCOFI cruise subsets (1984-1997). This version of the model uses a level of no motion at 500 m and the observed ship wind data. Positive fluxes indicate net transport into the box by ocean currents. The number of cruises in each subset is given in parentheses. R89 refers to the results of *Roemmich* [1989], who used the *Nelson* [1977] wind stress climatology.

MEAN FLUXES	Heat (W/m^2)	Freshwater ($10^6 kg/s$)	Nitrate ($kmol/s$)	Phosphate ($kmol/s$)	Chlorophyll (kg/s)	Silicate ($kmol/s$)	Oxygen ($10^6 l/s$)
All (55)	-86 (15)	-8.7 (1.4)	7.9 (1.3)	0.54 (0.10)	0.22 (0.12)	9.0 (2.1)	-0.70 (0.23)
Winter (15)	-47 (29)	-5.3 (2.3)	5.5 (2.2)	0.34 (0.17)	0.04 (0.09)	5.4 (3.7)	-0.49 (0.48)
Spring (12)	-131 (19)	-8.9 (2.8)	14.9 (2.2)	0.96 (0.17)	1.08 (0.45)	15.8 (3.4)	-1.26 (0.41)
Summer (15)	-86 (25)	-7.5 (2.9)	7.3 (2.4)	0.61 (0.19)	-0.05 (0.05)	9.8 (4.0)	-0.91 (0.34)
Autumn (13)	-90 (27)	-13.8 (2.1)	4.9 (3.2)	0.32 (0.25)	-0.03 (0.08)	6.2 (5.3)	-0.16 (0.31)
1984-87 (17)	-102 (32)	-11.0 (2.0)	8.8 (2.9)	0.58 (0.23)	0.06 (0.10)	11.9 (4.5)	-0.65 (0.48)
1988-92 (19)	-43 (22)	-6.4 (2.4)	4.0 (1.7)	0.28 (0.12)	0.06 (0.11)	3.3 (3.0)	-0.37 (0.33)
1993-97 (19)	-114 (23)	-8.9 (2.5)	10.9 (1.9)	0.77 (0.15)	0.53 (0.31)	12.3 (3.0)	-1.06 (0.39)
ENSO (14)	-69 (28)	-9.6 (3.2)	5.0 (3.0)	0.36 (0.24)	0.36 (0.36)	4.5 (5.3)	-0.40 (0.47)
non-ENSO (41)	-92 (17)	-8.4 (1.5)	8.9 (1.4)	0.61 (0.11)	0.18 (0.11)	10.6 (2.1)	-0.80 (0.26)
R89 (16)	-68 (15)	-3.1 (1.8)	4.8 (1.9)	0.36 (0.13)	0.14 (0.11)	4.8 (3.2)	-0.25 (0.24)

Table 2. Net eddy property fluxes for CalCOFI Box Model, with standard errors (in parentheses), computed from CalCOFI cruise subsets (1984-1997). This version of the model uses a level of no motion at 500 m and the observed ship wind data. Positive fluxes indicate an eddy transport into the box. The number of cruises in each subset is given in parentheses.

EDDY FLUXES	Heat (W/m^2)	Freshwater ($10^6 kg/s$)	Nitrate ($kmol/s$)	Phosphate ($kmol/s$)	Chlorophyll (kg/s)	Silicate ($kmol/s$)	Oxygen ($10^6 l/s$)
All (55)	5	0.6	-0.4	-0.04	0.10	-0.2	0.12
Winter (15)	11	3.7	-0.1	-0.05	0.03	0.0	-0.06
Spring (12)	0	-0.6	0.1	0.01	-0.07	0.3	-0.12
Summer (15)	5	0.7	-1.2	-0.07	0.09	-1.2	0.16
Autumn (13)	9	-2.1	-1.6	-0.15	0.00	-1.5	0.32