





















































Property	IronEX I (6)	IronEX II ( <i>30</i> )	SOIREE (49)	EisenEx (56)	SEEDS I (57)	SOFEX-S (54, 58)	SOFEX-N ( <i>58</i> )	EIFEX (46)	SERIES (17)	SEEDS II ( <i>59</i> )	SAGE ( <i>59</i> )	FeeP ( <i>59</i> )
Fe added (kg)	450	450	1750	2350	350	1300	1700	2820	490	480	1100	1840
Temperature (°C)	23	25	2	3 to 4	11	-1	5	4 to 5	13	9 to 12	11.8	21
Season	Fall	Summer	Summer	Spring	Summer	Summer	Summer	Summer	Summer	Summer	Fall	Spring
Light climate	254	216 to	59 to	82 to	178 to	103 to	125 to		173 to		59 to	
(µmol quanta m <sup>-2</sup> s <sup>-1</sup> )	(max) to 230 (min)	108	33	40	39	62	74		73		52	
Dilution rate (day <sup>-1</sup> )	0.27	0.18	0.07	0.04 to 0.43	0.05	0.08	0.1		0.07 to 0.16			0.4
Chlorophyll, t = 0 (mg m <sup>-3</sup> )	0.2	0.2	0.2	0.5	0.9	0.2	0.3	0.6	0.4	0.8	0.6	0.04
Chlorophyll, maximum (mg m <sup>-3</sup> )	0.6	3.3	2.3	2.8	23.0	2.5	2.4	3.0	5.5	2.4	1.3	0.07
MLD (m)	35	40*	65*	80*	13	35	45	100	30*	30	70*	30*
Bloom phase	Evolving	Decline	Evolving	Evolving	Evolving	Evolving	Evolving	Partial	Decline	Evolving	No	No
(duration,	(5)	(17)	(13)	(21)	(10)	(28)	(27)	decline,	(25)	(25)	bloom	bloom
days)	subducted						subducted	evolving			(17)	(7)
elDIC	6	26 1	7 1	4 58	21	13		36	n	c ·	<1	
δDMS (µmol m <sup>-3</sup> )	0.8	1.8	2.9	1.3, then to 0†	nc	nc	Increased		8.5, then to —5.7†	nc	nc	nc
Dominant phytoplankton	Mixed	Diatom	Diatom	Diatom	Diatom	Diatom	Mixed	Diatom	Diatom	Mixed	Mixed	Cyanobacteria Prochlorococcus
Export	nc	increase	nc	nc	nc	Increase	Increase§	Increase	Increase	nc	nc	
Mesozooplankton stocks	Increase‡	Increase	nc	nc	nc	nc	nc	Increase	Increase	Increase	nc	nc
Primary production (max/min ratio)	4	6	9	4	4	6	10	2	10		2	1.7







































































