

# DRAFT PLANS OF 2005 CRUISE (BASED UPON 2004 & STEAMING TIMES FROM SIO)

file VERTIGO 2005 DRAFT II cruise activities.xls

Load Ship July 19-20th						survey	survey	survey	survey	particle collections I	day 0	day 1
hours	21-Jul day 1	22-Jul 2	23-Jul 3	24-Jul 4	25-Jul 5	26-Jul 6	27-Jul 7	28-Jul 8	29-Jul 9	30-Jul 10	31-Jul 11	1-Aug 12
0		steam to K2	steam to K2	steam to K2	steam to K2	steam to K2	SS	SS	SS	SS	Survey & Launch 4 drifters	MOCNESS
2		steam to K2	steam to K2	steam to K2	steam to K2	steam to K2	SS	SS	SS	SS	Survey & Launch 4 drifters	SS
4		steam to K2	steam to K2	steam to K2	steam to K2	steam to K2	recover 12hr NBST	recover 12hr NBST	SS	SS	STD bio cast- CTD	1000m CTD cast
6		steam to K2	steam to K2	steam to K2	steam to K2	arrive K2	SS- 150m bottle collect	SS-300m bottle co	SS-500m bottle collect	SS	SS	SS
8		steam to K2	steam to K2	steam to K2	steam to K2	SS	recover optical trap test	SS	SS	SS	SS	MULVFS
10		steam to K2	steam to K2	steam to K2	steam to K2	SS	plankton net test- Silver	SS	SS	SS	MOCNESS	MULVFS
12		CTD dip?	CTD dip?	steam to K2	steam to K2	SS	MOCNESS test	SS	Trull trap in- 300	Launch 150 Clap & NBST	MOCNESS	MULVFS
14		steam to K2	steam to K2	steam to K2	steam to K2	SS	MULVFS test	SS	SS	Launch 300 Clap & NBST	bio cast-tow	MULVFS
16 depart 1600		steam to K2	steam to K2	steam to K2	steam to K2	deploy 12hr NBST tes	MULVFS test	SS	SS	Launch 500 Clap & NBST	TM Go-Flo casts	bio cast-tow
18	steam to K2	steam to K2	steam to K2	steam to K2	steam to K2	optical trap test	deploy 12hr NBST test	SS	SS	Launch 500 Clap & NBST	TM Go-Flo casts	CTD- 500m high Res
20	steam to K2	steam to K2	steam to K2	steam to K2	steam to K2	SS	SS	SS	SS	Launch-optical trap	SS	MULVFS
22	steam to K2	steam to K2	steam to K2	steam to K2	steam to K2	SS	SS	SS	SS	Survey & Launch 4 drifters	MOCNESS	MULVFS

  

	survey	survey	survey	particle collections II	day 0	day 1
	7-Aug 18	8-Aug 19	9-Aug 20	10-Aug 21	11-Aug 22	12-Aug 23
0	SS	SS	SS	SS	Survey & Launch 4 drifters	MOCNESS
2	SS	SS	SS	SS	Survey & Launch 4 drifters	SS
4	SS	SS	SS	SS	STD bio cast- CTD	1000m CTD cast
6	SS- 150m bottle collect	SS-300m bottle co	SS-500m bottle collect	SS	SS	SS
8	SS	SS	SS	SS	SS	MULVFS
10	SS	SS	SS	SS	MOCNESS	MULVFS
12	SS	SS	Trull trap in- 300	Launch 150 Clap & NBST	MOCNESS	MULVFS
14	SS	SS	SS	Launch 300 Clap & NBST	bio cast-tow	MULVFS
16	SS	SS	SS	Launch 500 Clap & NBST	TM Go-Flo casts	bio cast-tow
18	SS	SS	SS	Launch 500 Clap & NBST	TM Go-Flo casts	CTD- 500m high Res
20	SS	SS	SS	Launch-optical trap	SS	MULVFS
22	SS	SS	SS	Survey & Launch 4 drifters	MOCNESS	MULVFS

Event type	SS = Site Survey cast= CTD/Rosette w/trans, flu, sensors, option to trip bottles mostly 0-500m & selected sites for Saito's optical package
	sampling scales- within 20-50km scales & coming in to station and during mid-cruise, larger 100km scales for "butterfly" survey
	Launch surface drifters (n=5) over 15x15km grid
	include CTD at grid points; 1 hr steam & 1 hr CTD at each point; floats will not be retrieved
	Central 5x5 km grid & launch main in-situ gear
	includes NBST (n=7), Optical sediment trap; C explorer float ( Bishop), Drogued Clap traps (n=3); Repirometer array (n=1); Trull trap array
	Includes CTD work (and other sampling?) at n=5 grid points
	STD biology cast- CTD (New Prod, 234Th & others, dawn; bottles tripped for ancillary nutrients, Chl, pigments, etc)
	biology net tow- many short tows taken are not on this summary- plankton net tow for microscope work and live experiments- Silver and Steinberg
	F. MULVFS Pump cast (day and night pairs) assume 8 hours each
	Deep-CTD- Ba/Th is cast dedicated to particulate Ba for Dehairs (focus on 100-1500m sampling) with 2-4 bottles tripped at 3000m for 234Th calibration
	CTD- 500m high Res is Trull led CTD w/24 depths across pycnocline to 500m
	Go-Flo casts for trace metals- Lamborg
	Pick-up gear out of water (optional CTD survey casts at site of pick up)
	MOCNESS- 4 hour cast
	210Pb LV CTD cast- need to trip 20 bottles to get 10 samples for 210Pb profile- 20 L each

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Load Ship Jul	day 2 2-Aug 13	day 3 3-Aug 14	day 4 4-Aug 15	day 5 5-Aug 16	survey 6-Aug 17	
hours						
0	MULVFS	NBST 150 out	NBST 300 out	MOCNESS	SS	
2	MULVFS	optical trap out	bio cast-tow	MOCNESS	SS	
4	MAX CTD cast #1	Deep plankton tow	STD bio cast- C	SS	MAX CTD cast #1	
6	MAX CTD cast #2	SS	SS	SS	MAX CTD cast #2	
8	SS	Deep CTD- 3000m Ba/Tt	SS	SS	210Pb LV CTD cast	
10	SS	Deep CTD- 3000m Ba/Tt	SS	MOCNESS	SS	
12	SS	SS	SS	MOCNESS	SS	
14	SS	SS	SS	Trull trap out	SS	
16	bio cast-tow	Optical trap IN	SS	Trull trap out	SS	
18	Clap 150 out	Clap 300 out	Clap 500 out	Optical trap out	SS	
20	NBST 150 out	NBST 300 out	NBST 500 out	Optical trap out	SS	
22	NBST 150 out	NBST 300 out	NBST 500 out	SS	SS	

  

	day 2 13-Aug 24	day 3 14-Aug 25	day 4 15-Aug 26	day 5 16-Aug 27	survey 17-Aug 28	survey 18-Aug 29
0	MULVFS	NBST 150 out	NBST 300 out	MOCNESS	SS	SS
2	MULVFS	optical trap out	bio cast-tow	MOCNESS	SS	SS
4	MAX CTD cast #1	Deep plankton tow	STD bio cast- C	SS	MAX CTD cast #1	SS
6	MAX CTD cast #2	SS	SS	SS	MAX CTD cast #2	SS
8	SS	Deep CTD- 3000m Ba/Tt	SS	SS	210Pb LV CTD	SS
10	SS	Deep CTD- 3000m Ba/Tt	SS	MOCNESS	SS	SS
12	SS	SS	SS	MOCNESS	SS	Depart for Honolulu
14	SS	SS	SS	Trull trap out	SS	steam to port
16	bio cast-tow	Optical trap IN	SS	Trull trap out	SS	8.5 day steam
18	Clap 150 out	Clap 300 out	Clap 500 out	Optical trap out	SS	underway sampling
20	NBST 150 out	NBST 300 out	NBST 500 out	Optical trap out	SS	ARRIVE 27 AUG
22	NBST 150 out	NBST 300 out	NBST 500 out	SS	SS	

Event type

