

CCE-P1408 DAILY ACTIVITY SCHEDULE

6 August – Gear Tests, south of San Clemente Island

0800 Depart San Diego
1830 Trace Metal (TM) rosette
1930 Oozeki trawl – migration
2130 CTD
2230 MOCNESS
0000 Ring net tow, zooplankton experiments

7 August

0100 Submersible pump test
0200 Transit to waypoint 34° 25'N, 120°, 40'W

8 August

0800 **MVP Survey #1**, nearshore Pts. Conception/Arguello
2200 Begin **SeaSoar Survey #1**, Pts. Conception/Arguello area
(SeaSoar lost ~0200, 10 August)

10 August

1500 **Bowtie #1** – surface measurements (ALF) and ADCP currents only
1930 Oozeki trawl, vertical migration

11 August -- **CYCLE 1** (position 34° 29.12'N, 120° 45.35'W)

0000 Sediment trap deployment, begin CYCLE 1
0200 CTD, sampling & *in situ* experiments
0300 TM cast, Fe/¹⁵N experiment
0500 Deploy drift array #73
0530 CTD, thorium
0630 TM cast, iron profile
0830 Bongo live tows, zooplankton experiments
0930 Bongo, zooplankton net tow, gut fluor
1030 Secchi
1100 CTD, 14C-PP, microbiology, dissolved organics
1200 MOCNESS
1400 Oozeki trawl (500 m – CANCELLED, too shallow)
1600 CTD, radiolarians
2000 CTD, water for zooplankton experiments
2130 Bongo, zooplankton net tow, gut fluor
2230 MOCNESS
2400 Oozeki trawl (shallow)

12 August

0200 CTD, sampling & *in situ* experiments
0300 TM cast, DOC experiment
0500 Recover drift array #73/deploy #74
0830 Bongo live tows, zooplankton experiments
0930 Bongo, zooplankton net tow, gut fluor
1030 Secchi
1100 CTD, 14C-PP, microbiology, dissolved organics

1200 TM cast, experiments
1300 MOCNESS
1900 CTD, full dilution, zoopl experiments
2130 Bongo, zooplankton net tow, gut fluor
2230 Ring net, zooplankton experiments
2330 MOCNESS

13 August

0200 CTD cast, sampling & *in situ* experiments
0300 TM cast, Fe/¹⁵N experiment
0500 Recover #74/deploy drift array #75
0830 Bongo live tows, zooplankton experiments
0930 Bongo, zooplankton net tow, gut fluor
1030 Secchi
1100 CTD, 14C-PP, microbiology, dissolved organics
1300 Oozeki trawl
1800 CTD, radiolarians
1930 Oozeki, shallow migration
2130 Ring net, zooplankton experiments
2230 Bongo, zooplankton net tow, gut fluor
2400 Oozeki trawl (shallow)

14 August

0300 CTD, end CYCLE 1 drifter experiments
0500 Recover drift array #75
0730 Recover sediment trap array
0800 Transit to waypoint 34° 25.327'N, 121° 02.029'W
1200 CTD, radiolarians, deep thorium, water zoopl exps
1300 TM cast, DOC experiment
1400 MOCNESS, strobe/nonstrobe catch comparison
1730 Oozeki, deep tow
2030 CTD, 1000-m dissolved organics, experimental water
2130 Ring net, zooplankton live tow
2200 MOCNESS, strobe/nonstrobe catch comparison

15 August

0000 Transit to Santa Barbara
0900 Switch blocks for TM rosette, MOCNESS
1200 Maintenance EK60 pole
1300 Arrival LOPC replacement
1500 Net tow test of new block arrangement
1600 Transit to Waypoint 34° 25.335'N, 120°36.016'W
2230 Ring net tow, zooplankton experiments
2300 CTD, DOM from deep chl max
2400 TM rosette

16 August

0800 Survey area, MVP Bowtie #2
1300 CTD, radiolarians, water for zooplankton exps
1400 Oozeki trawl (deep)

1600 Ring net, radiolarians
1900 Oozeki, vertical migration
2200 MVP survey, Bowtie #3

17 August (34° 14.80'N, 120° 49.88'W)

0000 Sediment trap deployment, begin CYCLE 2
0200 CTD, sampling & *in situ* experiments
0300 TM cast, Fe/¹⁵N experiment
0500 Deploy drift array #76
0500 CTD, thorium
0600 TM cast, iron profile
0830 Bongo live tows, zooplankton experiments
0930 Bongo, zooplankton net tow, gut fluor
1030 Secchi
1100 CTD, 14C-PP, microbiology, dissolved organics
1600 MOCNESS
1900 CTD, radiolarians, water for zooplankton experiments
2130 Bongo, zooplankton net tow, gut fluor
2230 Oozeki trawl (deep)

18 August

0200 CTD, sampling & *in situ* experiments
0300 TM cast, DOC experiment
0500 Recover drift array #76/deploy #77
0830 Bongo live tows, zooplankton experiments
0930 Bongo, zooplankton net tow, gut fluor
1030 Secchi
1100 CTD, 14C-PP, microbiology, dissolved organics
1130 TM cast, experiments
1300 MOCNESS
1800 Ring net, radiolarians
1900 CTD, full dilution, zoopl experiments
2130 Bongo, zooplankton net tow, gut fluor
2230 Ring net, zooplankton experiments

19 August

0200 CTD cast, sampling & *in situ* experiments
0300 TM cast, Fe/¹⁵N experiment
0500 Recover #77/deploy drift array #78
0830 Bongo live tows, zooplankton experiments
0930 Bongo, zooplankton net tow, gut fluor
1030 Secchi
1100 CTD, 14C-PP, microbiology, dissolved organics
1300 Oozeki trawl
1800 CTD, radiolarians
1930 Oozeki, shallow migration
2100 Ring net, zooplankton experiments
2130 Bongo, zooplankton net tow, gut fluor
2230 MOCNESS

0030 Oozeki trawl (shallow)

20 August

0300 CTD, end CYCLE 2 drifter experiments
0400 TM cast, iron profile
0500 Recover drift array #78
0700 Recover sediment trap array
0900 Ring net, radiolarians
1300 TM cast, experiments
1430 Van Veen bottom grab
1600 Oozeki (deep)
2200 Ring net, zooplankton experiments
2300 MOCNESS

21 August

0200 Transit to waypoint 34° 20.80'N, 121° 21.26'W
0900 Survey area, Bowtie #4
1300 CTD (1000 m), thorium, DOM, rads, water for zooplankton exps
1400 TM cast, DOM degradation exps
1500 Oozeki trawl (deep)
1900 Sediment sample (Van Veen bottom grab, 2000+m)

22 August (approx. position 34° 22.44'N, 121° 21.24'W)

0000 Sediment trap deployment, begin CYCLE 3
0200 CTD, sampling & *in situ* experiments
0300 TM cast, Fe/¹⁵N experiment
0500 Deploy drift array #79
0500 CTD, thorium
0600 TM cast, iron profile
0730 SHIP, pump tanks (offsite)
0830 Bongo live tows, zooplankton experiments
0930 Bongo, zooplankton net tow, gut fluor
1030 Secchi
1100 CTD, 14C-PP, microbiology, dissolved organics
1200 MOCNESS
1430 Oozeki trawl
1800 CTD, radiolarians, zooplankton experiments
2130 Bongo, zooplankton net tow, gut fluor
2230 MOCNESS
2400 Oozeki trawl (shallow)

23 August

0230 CTD, sampling & *in situ* experiments
0330 TM cast, DOC experiment
0500 Recover drift array #79/deploy #80
0730 SHIP, pump tanks (offsite)
0830 Bongo live tows, zooplankton experiments
0930 Bongo, zooplankton net tow, gut fluor
1030 Secchi
1100 CTD, 14C-PP, microbiology, dissolved organics

1200 TM cast, experiments
1330 MOCNESS
1800 Ring net, radiolarians
1900 CTD, full dilution, zoopl experiments
2130 Bongo, zooplankton net tow, gut fluor
2230 Ring net, zooplankton experiments
2330 MOCNESS

24 August

0200 CTD cast, sampling & *in situ* experiments
0300 TM cast, Fe/¹⁵N experiment
0500 Recover #81/deploy drift array #82
0730 SHIP, pump tanks (offsite)
0830 Bongo live tows, zooplankton experiments
0930 Bongo, zooplankton net tow, gut fluor
1030 Secchi
1100 CTD, 14C-PP, microbiology, dissolved organics
1300 Oozeki trawl (deep)
1800 CTD, radiolarians
1930 Oozeki, shallow migration
2130 Ring net, zooplankton experiments
2230 Bongo, zooplankton net tow, gut fluor
2400 Oozeki trawl (shallow)

25 August

0300 CTD, end CYCLE 3 drifter experiments
0400 TM cast, iron profile
0500 Recover drift array #81
0530 SHIP, pump tanks (offsite)
0630 Recover sediment trap array
0800 Sediment sample (Van Veen bottom grab, 1200 m)
1000 Transit to study area (33° 27.8'N, 122° 31.4'W)
1800 MVP – enroute or Bowtie survey #5

26 August

0000 Deploy sediment trap, begin CYCLE 4 (33° 30.6'N, 122° 33.0'W)
0200 CTD, sampling & *in situ* experiments
0300 TM cast, Fe/¹⁵N experiment
0500 Deploy drift array #82
0530 CTD, thorium
0630 TM cast, iron profile
0730 SHIP, pump tanks (offsite)
0830 Bongo live tows, zooplankton experiments
0930 Bongo, zooplankton net tow, gut fluor
1030 Secchi
1100 CTD, 14C-PP, microbiology, dissolved organics
1200 MOCNESS
1500 Oozeki trawl (500 m)
2130 Bongo, zooplankton net tow, gut fluor

2230 Ring net, zooplankton experiments

27 August

0200 CTD (100 m), sampling & *in situ* experiments
0330 TM cast (100 m), Fe/¹⁵N and DOC experiments
0500 Recover drift array #82/deploy #83
0730 SHIP, pump tanks (offsite)
0830 Bongo live tows, zooplankton experiments
0930 Bongo, zooplankton net tow, gut fluor
1030 Secchi
1100 CTD (100 m), 14C-PP, microbiology, dissolved organics
1200 TM cast (100 m), experiments
1800 Ring net, radiolarians
1900 CTD (100 m), full dilution, zoopl experiments
2130 Bongo, zooplankton net tow, gut fluor

28 August

0000 MOCNESS
0200 CTD (700 m), sampling & *in situ* experiments
0330 TM cast, Fe/¹⁵N and DOC experiments
0500 Recover drift array #83/deploy #84
0600 TM cast, experiments
0730 SHIP, pump tanks (offsite)
0830 Bongo live tows, zooplankton experiments
0930 Bongo, zooplankton net tow, gut fluor
1030 Secchi
1100 CTD, 14C-PP, microbiology, dissolved organics
1200 MOCNESS
1500 Oozeki trawl (500 m)
1900 Oozeki – vertical migration
2200 CTD, radiolarians
2230 Bongo, zooplankton net tow, gut fluor
2330 MOCNESS

29 August

0200 Oozeki (shallow)
0400 CTD, end CYCLE 4 drifter experiments
0500 TM cast, iron profile
0530 Recover drift array #84
0600 SHIP, pump tanks (offsite)
0700 Recover sediment trap array
0800 Ring net, radiolarians
0830 Transit to offshore (32° 51.62'N, 123° 56.10'W)
1900 Survey area, MVP Bowtie #6

30 August (approx. position 32° 51.62'N, 123° 56.10'W)

0000 Sediment trap deployment, begin CYCLE 5
0200 CTD, sampling & *in situ* experiments
0300 TM cast, Fe/¹⁵N experiment
0500 Deploy drift array #85

0500 CTD, thorium
0600 TM cast, experiments
0730 SHIP, pump tanks (offsite)
0830 Bongo live tows, zooplankton experiments
0930 Bongo, zooplankton net tow, gut fluor
1030 Secchi
1100 CTD, 14C-PP, microbiology, dissolved organics
1300 MOCNESS
1530 Oozeki trawl (500 m)
2030 Ring net, radiolarians
2000 CTD (3000 m), deep thorium, zoopl experiments
2230 Ring net, zooplankton experiments
2300 Bongo, zooplankton net tow, gut fluor

31 August

0000 MOCNESS
0330 CTD, sampling & *in situ* experiments
0330 TM cast, Fe/¹⁵N experiment
0530 Recover drift array #85/deploy #86
0630 SHIP, pump tanks (offsite)
0830 Bongo live tows, zooplankton experiments
0930 Bongo, zooplankton net tow, gut fluor
1030 Secchi
1100 CTD, 14C-PP, microbiology, dissolved organics
1200 TM cast, experiments
1300 MOCNESS
1600 Ring net, radiolarians
1800 CTD (3000 m), deep thorium full dilution, zoopl experiments
2130 Bongo, zooplankton net tow, gut fluor
2230 Ring net, zooplankton experiments
2330 MOCNESS

1 September

0200 CTD cast, sampling & *in situ* experiments
0300 TM cast, Fe/¹⁵N experiment
0500 Recover #86/deploy drift array #87
0730 SHIP, pump tanks (offsite)
0830 Bongo live tows, zooplankton experiments
0930 Bongo, zooplankton net tow, gut fluor
1030 Secchi
1100 CTD, 14C-PP, microbiology, dissolved organics
1200 TM cast, experiments
1300 Oozeki trawl (deep)
1700 Bongo, zooplankton experiments
1800 CTD, radiolarians
1900 Oozeki, shallow migration
2230 Bongo, zooplankton net tow, gut fluor
2400 Oozeki trawl (shallow)

2 September

0300 CTD, end CYCLE 5 drifter experiments
0400 TM cast, iron profile
0500 Recover drift array #87
0530 SHIP, pump tanks (offsite)
0630 Recover sediment trap array
0800 Transit to Waypoint 32° 00.732'N, 120° 50.868'W

3 September

0100 MVP/iron sampling to Waypoint 33° 11.995'N, 118° 20.461'W

4 September

0000 Complete MVP sampling.