

CCE-P1208 DAILY ACTIVITY SCHEDULE

28 July

0800 Depart MarFac
1330 MVP (Moving Vessel Profiler) test
1500 CTD test
1600 TM Rosette (Trace metal) test
1700 Oozeki trawl test
1800 Oozeki trawl test
2000 MOCNESS test

29 July

1100 MOCNESS, further testing
1245 Oozeki, further testing
1400 CTD, test bottle firing
1430 Bongo net test
1530 Transit to station 33.75°N, 121.5°W

30 July – SeaSoar Survey #1

1825 Deploy SeaSoar, begin SeaSoar survey of study area

3 August

1030 Recover SeaSoar, end SeaSoar survey #1
1400 Deploy MVP, begin fine-scale survey of frontal region

4 August – E-FRONT Transect #1

0600 Recover MVP
0820 Begin deployments of drifter array (front kinematics experiment)
1145 End drifter deployments, 9 SVP ARGOS drifters deployed
1800 Begin transect #1 station sampling, E-FRONT

5 August – Experimental Cycle #1 (central front jet)

1000 End E-Front transect #1
1400 Re-lower acoustics pole
1800 Underway survey/MVP to relocate front and deploy expendable drifters

6 August

0000 Sediment trap deployment, begin CYCLE 1
0200 CTD, sampling & *in situ* experiments
0300 TM cast, iron profile
0430 Deploy drift array #63
0500 CTD, thorium
0600 TM cast, iron profile/experiments
0830 Bongo live tows, zooplankton experiments
0930 Bongo, zooplankton net tow, gut fluor
1030 CTD, 14C-PP, biooptics
1130 MOCNESS
1400 Oozeki trawl (500 m)
2000 CTD, zooplankton experiments
2130 Bongo, zooplankton net tow, gut fluor
2230 MOCNESS

7 August

0200 CTD, sampling & *in situ* experiments
0300 Oozeki (200 m)
0430 Recover drift array #63/deploy #64
0600 TM cast, experiments
0830 Bongo live tows, zooplankton experiments
0930 Bongo, zooplankton net tow, gut fluor
1030 CTD, 14C-PP, biooptics
1130 TM cast, experiments
1300 Oozeki trawl (500 m)
1900 CTD, full dilution, zoopl experiments
2130 Bongo, zooplankton net tow, gut fluor
2230 Oozeki trawl (500 m)

8 August

0200 CTD cast, sampling & *in situ* experiments
0430 Recover #64/deploy drift array #65
0600 TM cast, experiments
0830 Bongo live tows, zooplankton experiments
0930 Bongo, zooplankton net tow, gut fluor
1030 CTD, 14C-PP, biooptics
1130 TM cast (1000 m)
1300 MOCNESS
2130 Bongo, zooplankton net tow, gut fluor
2230 MOCNESS

9 August

0000 Oozeki trawl (200)
0300 CTD, end CYCLE 1 drifter experiments
0500 Recover drift array #65
0730 Recover sediment trap array
0800 Transit north to study area
1800 Underway survey/MVP to relocate front

10 August – Experimental Cycle #2 (front gradient)

0000 Sediment trap deployment, begin CYCLE 2
0200 CTD, sampling & *in situ* experiments
0300 TM cast, iron profile
0430 Deploy drift array #66
0500 CTD, thorium
0600 TM cast, iron profile/experiments
0800 Bongo live tows, zooplankton experiments
0930 Bongo, zooplankton net tow, gut fluor
1030 CTD, 14C-PP, biooptics
1130 MOCNESS
1400 Oozeki trawl (500 m)
2000 CTD, zooplankton experiments
2130 Bongo, zooplankton net tow, gut fluor
2230 MOCNESS

11 August

0200 CTD, sampling & *in situ* experiments
0430 Recover drift array #66/deploy #67
0600 TM cast, experiments
0800 Bongo live tows, zooplankton experiments
0930 Bongo, zooplankton net tow, gut fluor
1030 CTD, 14C-PP, biooptics
1130 MOCNESS
1400 Oozeki trawl (500 m)
1900 TM cast, experiments
2000 CTD, full dilution, zoopl experiments
2130 Bongo, zooplankton net tow, gut fluor
2230 Oozeki trawl (200 m)

12 August

0000 MOCNESS
0300 CTD, end CYCLE 2 drifter experiments
0500 Recover drift array #67
0730 Recover sediment trap array
0800 Transit north to study area
1800 Underway survey/MVP to relocate front

13 August – Experimental Cycle #3 (adjacent coastal)

0000 Sediment trap deployment, begin CYCLE 3
0200 CTD, sampling & *in situ* experiments
0300 TM cast, iron profile
0430 Deploy drift array #68
0500 CTD, thorium
0600 TM cast, iron profile/experiments
0800 Bongo live tows, zooplankton experiments
0930 Bongo, zooplankton net tow, gut fluor
1030 CTD, 14C-PP, biooptics
1130 MOCNESS
1400 Oozeki trawl (500 m)
1830 TM cast, deep (1000 m)
2000 CTD, zooplankton experiments, deep (2000 m)
2130 Bongo, zooplankton net tow, gut fluor
2230 MOCNESS

14 August

0200 CTD, sampling & *in situ* experiments
0300 Oozeki (200 m)
0430 Recover drift array #68/deploy #69
0600 TM cast, iron profile
0800 Bongo live tows, zooplankton experiments
0930 Bongo, zooplankton net tow, gut fluor
1030 CTD, 14C-PP, biooptics
1130 MOCNESS
1400 Oozeki trawl (500 m)
1900 TM cast, experiments

2000 CTD, full dilution, zoopl experiments
2130 Bongo, zooplankton net tow, gut fluor
2230 MOCNESS

15 August

0130 Oozeki trawl (200 m)
0400 CTD, end CYCLE 3 drifter experiments
0530 Recover drift array #69
0730 Recover sediment trap array
0800 Transit north to study area
1600 Underway survey/MVP to relocate front
1930 TM cast, shallow water samples
2130 Oozeki trawl (200 m)

16 August – Experimental Cycle #4 (adjacent oceanic/eddy)

0000 Sediment trap deployment, begin CYCLE 4
0200 CTD, sampling & *in situ* experiments
0300 TM cast, iron profile
0430 Deploy drift array #70
0500 CTD, thorium
0600 TM cast, iron profile (deep 1000 m)
0800 Bongo live tows, zooplankton experiments
0930 Bongo, zooplankton net tow, gut fluor
1030 CTD, 14C-PP, biooptics
1130 MOCNESS
1400 Oozeki trawl (500 m or deeper)
1900 CTD, zooplankton experiments, deep (2000 m)
2130 Bongo, zooplankton net tow, gut fluor
2230 MOCNESS

17 August

0200 CTD, sampling & *in situ* experiments
0430 Recover drift array #70/deploy #71
0600 TM cast, iron profile
0800 Bongo live tows, zooplankton experiments
0930 Bongo, zooplankton net tow, gut fluor
1030 CTD, 14C-PP, biooptics
1130 TM cast (50 m)
1200 MOCNESS
1430 Oozeki trawl (500 m or deeper)
1830 CTD, full dilution, zoopl experiments
2130 Bongo, zooplankton net tow, gut fluor
2230 MOCNESS

18 August

0130 Oozeki trawl (200 m)
0300 CTD, end CYCLE 4 drifter experiments
0430 Recover drift array #71
0600 Recover sediment trap array
0700 Transit back to experimental transect line, MVP crossing

1200 Underway survey/MVP to relocate front
1900 Sediment trap deployment, begin CYCLE 5
2130 Oozeki trawl (200 m)

19 August – Experimental Cycle #5

0100 CTD, sampling & *in situ* experiments
0200 TM cast, iron profile
0330 Deploy drift array #72
0400 CTD, thorium
0500 TM cast, experiments
0800 Bongo live tows, zooplankton experiments
0930 Bongo, zooplankton net tow, gut fluor
1030 CTD, 14C-PP, biooptics
1130 Oozeki trawl (deep tow, 3000 m wire out)
1900 CTD, zooplankton experiments
2130 Bongo, zooplankton net tow, gut fluor
2230 Oozeki trawl (200 m)

20 August – E-Front Transect #2

0100 CTD, sampling, End of Cycle 5
0330 Recover drift array #72
0500 Recover sediment trap array
0600 Transit to MVP survey
1600 Begin Front Crossing Station sampling (E-Front Transect #2)

21 August – SeaSoar Survey #2

1000 End of transect/station sampling, transit north
1600 Begin SeaSoar sampling, north-to-south

25 August

0200 End SeaSoar