

Nearshore Larval Transport: Spring-Summer 2016 Sampling Report

Jesus Pineda, Woods Hole Oceanographic Institution

Nathalie Reyns, University of San Diego

Steven Lentz, Woods Hole Oceanographic Institution

All nearshore research was conducted on a 7m Parker with a davit (University of San Diego, R/V Gaia).

8-m subsurface mooring deployment at Bird Rock

Date Deployed: 4/8/2016

Time Deployed: ~9:45 am local time

Date Retrieved: 10/24/2016

Time Retrieved: 2:36 pm local

Deployment location: 32° 48' 37.2'' / 117° 16' 41.4'' on boat GPS(468) /

Retrieval location: same as deployment (did not move)

Instrument	Serial #	Turned on (GMT)	Sample rate	height	Comments
SBE 56 T	3843	4/8/2016-12:00:00	5 s	7.9 mab	
SBE 39 T&P	6784	4/8/2016-12:00:00	120 s	6.6 mab	Died 2:02 Oct 13
SBE 56 T	3842	4/8/2016-12:00:00	5 s	5.0 mab	
SBE 56 T	3841	4/8/2016-12:00:00	5 s	3.9 mab	
SBE 56 T	3840	4/8/2016-12:00:00	5 s	2.7 mab	
SBE 56 T	3839	4/8/2016-12:00:00	5 s	1.4 mab	

8-m Yellow tripod (JP ADCP) deployment at Bird Rock

Date Deployed: 4/8/2016

Time Deployed: ~10:10 am local

Date Retrieved: 10/31/2016

Time Retrieved: 8:48 am local

Deployment location: 32° 48'38.5'' /117° 16' 40.8'' on boat GPS (469)

Retrieval location: same as deployment (did not move)

Instrument	Serial #	Turned on (GMT)	Height Measured	Sample rate	Comments
RDI ADCP	#81	4/12/2016 12:00:00	0.54 mab	5 sec sample interval	9m depth, 22 cells/0.4m, 1 ping/5s interval,
Seagauge P	361	12:00:00	0.30 mab	20 min	Plates still on Wavebursts every 6 hrs 1024 samples 0.25 sec interval

5-m mooring deployment at Bird Rock

Date Deployed: 4/8/2016

Time Deployed: 11:02 am local

Date Retrieved: 10/25/2016

Time Retrieved: 3:15 pm local

Deployment and retrieval location: 32° 48'37.9" /117° 16' 22.6" on boat GPS(471)

Water depth: 5.8 m Castaway

Waypoints: 5msurf on boat; 004 on handheld

Instrument	Serial #	Turned on (GMT)	Sample rate	height	Comments
SBE56	3845	4/8/2016-12:00:00	5 s	5.2MAB	

Surface mooring failed Sept. 22 at 9:18:30 UTC

5-m subsurface mooring at Bird Rock

Date Deployed: 4/8/2016

Time Deployed: ~11:12am local

Date Retrieved: 11/19/2016

Time Retrieved: 12:47 pm local

Deployment location: 32° 48' 37.9" /117° 16' 22.8" boat (470)

Instrument	Serial #	Turned on (GMT)	Height	Sample Rate	Comments
SBE 56 T	6350	4/8/2016-12:00:00	1.0mab	5s	
SBE 56 T	6351	4/8/2016-12:00:00	2.0mab	5s	
SBE 56 T	6352	4/8/2016-12:00:00	3.0mab	5s	
SBE 56 T	3836	4/8/2016-12:00:00	4.2mab	5s	

5-m trawl frame deployment

Date Deployed: 4/8/2016

Time Deployed: 6:41pm local

Date Retrieved: 11/19/2016

Time Retrieved: 12:11 pm local

Deployment location: 32° 48.625 / 117° 16.379 on handheld GPS, Boat location

Retrieval location: same as deployment (did not move)

Water depth: 6m

Instrument	Serial #	Turned on (GMT)	height	Sample rate	Comments
Aquadopp	5329	4/9/2016-6:00:00	32 cmab	180 sec	10 – 50 cm bins 7 pings per 1 min burst
SBE 56 T	3835	4/8/2016-12:00:00 gmt	31 cmab	5 s	

8-m Grey tripod (Churchill ADCP) deployment at Dike Rock

Date Deployed: 4/11/2016

Time Deployed: ~12:00:00 pm local

Date Retrieved: 10/24/2016

Time Retrieved: 11:08 am local

Deployment and retrieval location: 32° 52'08.1" /117° 15' 27.9" boat (473)

Retrieval location: same as deployment (did not move)

Water depth: 8.6 m on diver gauge

Instrument	Serial #	Turned on (GMT)	Height Measured	Sample rate	Comments
RDI ADCP	829	4/11/2016-8:34:00am PST, 15:34:00 GMT (Started immediately.)	0.42 mab	5 sec sample interval	9m depth, 22 cells/0.4m, 1 ping/5s interval, NDR6_
Seagauge P	360	4/9/2016- 12:32:00	22 cmab	20 min	Wavebursts every 6 hrs 1024 samples 0.25 sec interval
SBE 56 T	3838	4/8/2016- 12:00:00 GMT	45cmab	5s	

8-m subsurface temperature mooring at Dike Rock

Date Deployed: 4/11/2016

Time Deployed: 11:35am local

Date Retrieved: 10/24/2016

Time Retrieved: 9:21 am local

Deployment location: 32° 52' 08.2" /117° 15' 28.8" boat (474)

Instrument	Serial #	Turned on (GMT)	Height	Sample Rate	Comments
SBE 56 T	6344	4/8/2016-12:00:00	1.5mab	5s	
SBE 56 T	6345	4/8/2016-12:00:00	2.7mab	5s	
SBE 56 T	6346	4/8/2016-12:00:00	3.9mab	5s	
SBE 56 T	6347	4/8/2016-12:00:00	5.0mab	5s	
SBE 56 T	6348	4/8/2016-12:00:00	6.4mab	5s	
SBE 56 T	6349	4/8/2016-12:00:00	7.6mab	5s	

Intertidal

2-m site deployment

Date Deployed: 4/5/2016 Time Deployed: ~3:00pm local
Deployment location: off south side of point- did not get castaway reading
Previous location: 32.8102, -117.2702 from Castaway GPS
Water depth: ~2m

1-m site deployment

Date Deployed: 4/5/2016 Time Deployed: ~3:00pm local
Deployment location: same as before
Previous location: 32.8098, -117.2701 from Castaway GPS
Water depth: ~1m
Previous location 32.8097849 N, -117.2700085 W (from castaway)

Instrument	Serial #	Turned on (GMT)	height	Sample rate	Comments
SBE 39 T&P	6783	12:00:00 6 Apr	~2m	120 s	clamped to 40lbs of flat weight
SBE 56 T	6343	12:00:00 6 Apr	~1m	5 s	clamped to 40lbs of flat weight

****SBE 56T retrieved 11/15/2016 @ 3:30 pm local****

Intertidal sites deployment

Date Deployed: 4/6/2016 and 4/8/2016 Time Deployed: ~3:00pm local
Date/Time retrieved:

Instrument	Serial #	Turned on (GMT)	height	Sample rate	lat	lon	waypt	Water depth
SBE 56 T	3819	12:00:00 Apr 9		5 s				Bottom under rock #2
SBE 56 T	3833	12:00:00 6 Apr		5 s				Bottom under rock # 11

****SBE 56 T #3833 retrieved 11/3/2016 @ 5:20 pm local b/c hose clamp broken****

SBE56 3833 delayed start 4/6/2016 rather than 4/8/2016

Bird Rock Settlement plates

Started daily: 04/06/2016
Weekly plates deployed: 4/6/2016
Weekly plates on: -1',1',3',7',9',12'
Backup sites: 5' and 2'
Started weekly: 4/6/2016
End: still going

Larval traps

Dates Deployed: Not deployed

Dike Rock Settlement Plates

Deployed plates: 04/04/2016 at ~

Plates on Boulders 1, 2, 3, 7, 9, 10

Backup sites: 4, 5, 6, 8

Started weekly: 04/06/2016

End: still going

GPS data for plates

ID	lat	lon
DR01	32.86999	-117.25365
DR02	32.86970	-117.25373
DR03	32.86967	-117.25379
DR04	32.86915	-117.25372
DR05	32.86883	-117.25385
DR06	32.86876	-117.25391
DR07	32.86870	-117.25392
DR08	32.86866	-117.25387
DR09	32.86859	-117.25387
DR10	32.86850	-117.25389