

Nearshore Larval Transport: Spring-Summer 2015 Sampling Report

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

8-m subsurface mooring deployment

Date Deployed: 21 April 2015

Time Deployed: 8:43 a.m. (local time)

Date Retrieved: 2 August 2015

Time Retrieved: 10:45 am (local time)

Deployment location: 32° 48' 37.0'' / 117° 16' 40.9''

Water depth: 29' from diver depth gauge

Instrument	Serial #	Turned on (GMT)	Sample rate	height	Comments
SBE 56 T	3843	19 April 12:00:00	5 s	6.3 mab	
SBE 39 T&P	6784	20 April 0:00:00	60 s	5.3 mab	
SBE 56 T	3842	19 April 12:00:00	5 s	4.7 mab	
SBE 56 T	3841	19 April 12:00:00	5 s	3.6 mab	
SBE 56 T	3840	19 April 12:00:00	5 s	2.4 mab	
SBE 56 T	3839	19 April 12:00:00	5 s	1.2 mab	

8-m tripod deployment

Date Deployed: 21 April 2015

Time Deployed: 11:15 am (local time)

Date Retrieved: 2 August 2015

Time Retrieved: 10:23 am (local time)

Deployment location: 32° 48' 37.5'' / 117° 16' 39.4''

Water depth: 28' based on diver gauge (placed in large sand patch)

Instrument	Serial #	Turned on (GMT)	Height Measured	Sample rate	Comments
RDI ADCP		20 April 20:00:00	0.52 mab	2 sec sample interval	100 days duration, 22 number of depth cells 0.4 depth cell size
Seagauge P	361	19 April 21:10:00	0.56 mab	10 min	Wave-burst every 3 hrs 1024 samples at 0.25 s
SBE 56 T	3838	19 April 12:00:00	0.3 mab	5 s	

8-m surface Telemetry mooring deployment

Date Deployed: 21 April 2015

Time Deployed: 8:28 am (local time)

Date Retrieved: 31 May 2015

Time Retrieved: 10:30 am

Deployment location: 32° 48'35.6" /117° 16' 40.6"

Water depth: 29' based on diver depth gauge; deployed in sand patch

Instrument	Serial #	Turned on (GMT)	Depth (below surface)	Sample rate	Comments
SBE 56	3846	19 April 12:00:00	25 cm	5 sec	
T- Hobo	10524917-1		1.92 m		Log every minute, but connect every 10 min
T-Hobo	10524918-1		3.92 m		""
T-Hobo	10524919-1		6.0 m		""

6-m Surface mooring deployment

Date Deployed: 31 May 2015; moved on 6/7/15~10:30-11:20 (was finding a good place for it) to place near 5-m ADCP

Time Deployed: 9:56 am (local time)

Date Retrieved: 2 August 2015

Time Retrieved: 9:53 am (local time)

Deployment location: 32° 47'36.2" /117° 16' 25.4" (from boat GPS)

new location 32 48 36.2/117 16 25.4

Water depth: 5.7m from Castway

Instrument	Serial #	Turned on (GMT)	Depth (below surface)	Sample rate	Comments
SBE 56	3845	19 April 12:00:00	35 cm	5 sec	

6-m ADCP deployment

Date Deployed: June 7, 2015

Time Deployed: 11:20 am (local time)

Date Retrieved: 2 August 2015

Time Retrieved: 9:44 am (local time)

Deployment location: 32 48 36.4/-117 16 22.4 (boat GPS called ADCP-3)

Water depth: 5.79 on Castaway; 16' on diver gauge

Instrument	Serial #	Turned on (GMT)	Height Measured	Sample rate	Comments
RDI ADCP		7 June 13:00:00	42 cmab	2 sec sample interval	56 days duration, 12 number of depth cells 0.4 depth cell size

5-m trawl frame deployment

Date Deployed: 21 April 2015

Time Deployed: 9:00 am (local time)

Date Retrieved: 2 August 2015

Time Retrieved: 9:21 am (local time)

Deployment location: 32° 48' 37.5" / 117° 16' 22.2"

Water depth:

Instrument	Serial #	Turned on (GMT)	height	Sample rate	Comments
Aquadopp	5329	20 April 20:00:00	36 cmab	90 sec	10 of 0.5 m bins
Seagauge P	360	19 April 12:10:00	22 cmab	10 min	Wave bursts – 1024 samples at 4 Hz and 4 samples a second every three hours.
SBE 56 T	3835	19 April 12:00:00	2 cmab	5 s	
SBE 56 T	3836	19 April 12:00:00	1 mab	5 s	

2-m site deployment

Date Deployed: 20 April 2015

Time Deployed: ~6:00 am (local time)

Date Retrieved: 2 August 2015

Time Retrieved: 5:50 am (local time)

Deployment location: 32.8102, -117.2702 from Castaway GPS

Water depth: ~2m

1-m site deployment

Date Deployed: 20 April 2015

Time Deployed: ~6:15 am (local time)

Date Retrieved: 2 August 2015

Time Retrieved: 5:55 am (local time)

Deployment location: 32.8098, -117.2701 from Castaway GPS

Water depth: ~1m

Instrument	Serial #	Turned on (GMT)	height	Sample rate	Comments
SBE 39 T&P	6783	20 April 0:00:00	~2m	60 s	clamped to 40lbs of flat weight
SBE 56 T	3833	19 April 12:00:00	~1m	5 s	clamped to 40lbs of flat weight

Intertidal sites deployment

Date Deployed: 20 April 2015 Time Deployed: ~6:30 am (local time)

Date/Time retrieved: both retrieved 8/26/15 at 1:50 am (local time)

Instrument	Serial #	Turned on (GMT)	height	Sample rate	lat	lon	waypt	Water depth
SBE 56 T	3819	19 April 12:00:00		5 s				Bottom under rock #2
SBE 56 T	3828	19 April 12:00:00		5 s				Bottom under rock # 11

Settlement plates

Date Deployed: Daily plates started on 4/23/15

Date Retrieved: 2 August 2015 (last plates for daily record)

On Aug 5, started weekly plate deployments.

Larval traps

Date Deployed: Daily traps started on 4/24/15

**on 6/5/15 at 6 am local time (nice negative tide), NR, JP, KH, DF, SR went to intertidal and moved larval trap #5 from existing location and repositioned to a northern location at our study site. Trap has been re-named to TRAP 7. We also drilled a new plate location here to pair with the trap, now called 'plate -1'. We drilled a second new plate location, called 'plate 0'. Used JP's GPS:

Plate -1: 32 48.617, -117 16.176 (located near trap 7)

Trap 7: 32 48.617, -117 16.176

Plate 0: 32 48.613, -117 16.178

Trap 6: 32 48.610, -117 16.180

Trap 4: 32 48.602, -117 16.174 (near plate 5)

Trap 3: 32 48.597, -117 16.174 (near plate 7)

Trap 2: 32 48.598, -117 16.169 (near plate 10)

Trap 1: 32 48.593, -117 16.165 (near plate 12)

Date Retrieved: 2 August 2015 (last trap for summer season)