

TROPICAL ATMOSPHERE-OCEAN (TAO)
PROGRAM FINAL CRUISE REPORT
TA-17-02-RHB

Area: Equatorial Pacific: 8°S 95°W to 8°N 95°W and 8°S 110°W to 8°N 110°W

Itinerary:

TA-17-02 DEP *May 20, 2017, Arica, Chile*
 ARR *July 8, 2017, Key West, FL*

CRUISE DESCRIPTION

The Tropical Atmosphere Ocean (TAO) array consists of 55 buoys utilizing a taut line mooring configuration used to mount data collection sensors for climate research purposes. Repair and maintenance of the buoys is performed by NDBC contracted personnel on an annual basis utilizing the NOAA Ships and other contract vessels. The buoys' deployment lifecycles are up to 18 months to ensure at least one year of data collection can be completed.

TAO Cruise Objective and Plan:

The objective of this cruise was the maintenance of the TAO Array along the 95°W and 110°W meridians.

The scientific complement for the cruise embarked at Arica, Chile on May 19, 2017. The ship departed on May 20, 2017 and conducted operations as listed in Section 2.1. The ship arrived at Key West, FL on July 8, 2017.

1.0 PERSONNEL

1.1 CRUISE LEAD AND PARTICIPATING SCIENTISTS:

Cruise Lead: William Thompson

Participating Scientists:

| Name | Gender | Nationality | Affiliation |
|------------------|--------|-------------|-------------|
| William Thompson | M | US | NOAA/NDBC |
| Josh Lee | M | US | NOAA/NDBC |
| Casey Burge | M | US | NOAA/NDBC |

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| Kendall Lumpkin | M | US | NOAA/NDBC |
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2.0 OPERATIONS

2.1 TAO Data Recovery Summary

Mooring Operations conducted are shown in the tables below. The following provides details on the data recovery efforts for the buoys serviced. All noted times in this summary report are Coordinated Universal Time (UTC):

TAO Cruise Summary

| | |
|---|---------------------------------|
| Buoy Site: 8S 110W Refresh | |
| Mooring Operation: Recovery | Mooring ID#: DM183A |
| Deployed Location: 07 57.42S 110 04.71W | Deployed Date: 3/21/2016 |
| Recovered Location: 07 57.40S 110 04.41W | Recovered Date: 6/5/2017 |
| Sensors/Equipment Lost at Sea: Acoustic Release | |
| Sensors Damaged/Fouled: SSC, T40, T60 | |
| Fishing/Vandalism: YES, Long line fishing gear around the mooring. | |
| Sensors/Tubes Downloaded: Sent to Lab for download | |
| General Comments: Acoustic release had good coms but never released. After recovering all sensors a line cutter was sent down but failed. Mooring was cut at the deck. | |

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|---|--------------------------------|
| Buoy Site: 8S 110W Refresh | Mooring Depth: 3490M |
| Mooring Operation: Deployment | Mooring ID#: DM231A |
| Deployed Location: 07 57.38S 110 04.66W | Deployed Date: 6/6/2017 |
| Pre-Deployment On Deck Instrument Failures: NONE | |
| Sensors/Equipment Lost at Sea: NONE | |
| Sensors Damaged During Deployment: NONE | |
| General Comments: Data comparison made with ship's sonic wind sensor, ship's RM Young out of commission. | |

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|---|---------------------------------|
| Buoy Site: 5S 110W Refresh | |
| Mooring Operation: Recovery | Mooring ID#: DM184A |
| Deployed Location: 04 57.30S 109 57.83W | Deployed Date: 4/11/2016 |
| Recovered Location: 04 57.68S 109 59.00W | Recovered Date: 6/7/2017 |
| Sensors/Equipment Lost at Sea: NONE | |
| Sensors Damaged/Fouled: SSC, T20 | |
| Fishing/Vandalism: YES, A tow line was attached upon arrival and a plastic bag was hanging from the tower. | |
| Sensors/Tubes Downloaded: Sent to Lab for download | |
| General Comments: NONE | |

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|---|--------------------------------|
| Buoy Site: 5S 110W Refresh | Mooring Depth: 3728M |
| Mooring Operation: Deployment | Mooring ID#: DM232A |
| Deployed Location: 04 57.48S 109 58.24W | Deployed Date: 6/7/2017 |
| Pre-Deployment On Deck Instrument Failures: NONE | |
| Sensors/Equipment Lost at Sea: NONE | |
| Sensors Damaged During Deployment: NONE | |

General Comments: Data comparison made with ship's sonic wind sensor, ship's RM Young out of commission.

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| Buoy Site: 2S 110W Refresh | |
| Mooring Operation: Recovery | Mooring ID#: DM185A |
| Deployed Location: 01 58.66S 109 58.28W | Deployed Date: 4/12/2016 |
| Recovered Location: 04 58.55S 109 57.71W | Recovered Date: 6/8/2017 |
| Sensors/Equipment Lost at Sea: NONE | |
| Sensors Damaged/Fouled: SSC, T20 | |
| Fishing/Vandalism: YES, Tow rope hooked to buoy. Line wrapped around the top section. | |
| Sensors/Tubes Downloaded: Sent to Lab for download | |
| General Comments: NONE | |

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|---|--------------------------------|
| Buoy Site: 2S 110W Refresh | Mooring Depth: 3946M |
| Mooring Operation: Deployment | Mooring ID#: DM233A |
| Deployed Location: 01 58.87S 109 58.14W | Deployed Date: 6/8/2017 |
| Pre-Deployment On Deck Instrument Failures: NONE | |
| Sensors/Equipment Lost at Sea: NONE | |
| Sensors Damaged During Deployment: NONE | |
| General Comments: Data comparison made with ship's sonic wind sensor, ship's RM Young out of commission. | |

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|---|----------------------------------|
| Buoy Site: 0 110W Refresh Flux | |
| Mooring Operation: Recovery | Mooring ID#: DM186A |
| Deployed Location: 00 02.00N 109 54.09W | Deployed Date: 4/13/2016 |
| Recovered Location: 03 08.48N 111 04.68W | Recovered Date: 6/11/2017 |
| Sensors/Equipment Lost at Sea: Wind, Acoustic release, Sontek 10m, TC40 and under. | |
| Sensors Damaged/Fouled: All sensors not lost. | |
| Fishing/Vandalism: Yes. Rain gauge, radiation sensors, and both cameras had plastic bags and cloth taped over them. Steel towing cable was choked onto Nilspin. Tow lines were attached to the buoy. | |
| Sensors/Tubes Downloaded: Sent to Lab for download | |
| General Comments: The mooring failure occurred just after the 29M mark on the Nilspin. The break was clean, from over tension. The Nilspin was black plastic coated sourced from Service Rigging. | |

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|---|---------------------------------|
| Buoy Site: 0 110W Refresh Flux | Mooring Depth: 3796M |
| Mooring Operation: Deployment | Mooring ID#: DM234A |
| Deployed Location: 00 03.51N 109 53.90W | Deployed Date: 6/10/2017 |
| Pre-Deployment On Deck Instrument Failures: NONE | |
| Sensors/Equipment Lost at Sea: SWR, LWR Mount failed on deployment | |
| Sensors Damaged During Deployment: NONE | |
| General Comments: Data comparison made with ship's sonic wind sensor, ship's RM Young out of commission. | |

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| Buoy Site: 0 110W ADCP | |
| Mooring Operation: Recovery | Mooring ID#: EA023 |
| Deployed Location: 00 01.17S 109 55.34W | Deployed Date: 4/13/2017 |

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|---|---------------------------------|
| Recovered Location: 00 01.17S 109 55.34W | Recovered Date: 6/9/2017 |
| Sensors/Equipment Lost at Sea: NONE | |
| Sensors Damaged/Fouled: NONE | |
| Fishing/Vandalism: NONE | |
| Sensors/Tubes Downloaded: Sent to lab for download | |
| General Comments: NONE | |

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|--|--------------------------------|
| Buoy Site: 0 110W ADCP | Mooring Depth: 3812M |
| Mooring Operation: Deployment | Mooring ID#: EA024 |
| Deployed Location: 00 00.53N 109 55.27W | Deployed Date: 6/9/2017 |
| Pre-Deployment On Deck Instrument Failures: NONE | |
| Sensors/Equipment Lost at Sea: NONE | |
| Sensors Damaged During Deployment: NONE | |
| General Comments: Eliminated nylon below the float with field splice of HMPE in order to reduce the stretch of the mooring. | |

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| Buoy Site: 2N 110W Refresh | |
| Mooring Operation: Recovery | Mooring ID#: DM138A |
| Deployed Location: 02 00.64N 110 01.75W | Deployed Date: 4/30/2017 |
| Recovered Location: 02 00.64N 110 02.36W | Recovered Date: 6/10/2017 |
| Sensors/Equipment Lost at Sea: NONE | |
| Sensors Damaged/Fouled: SSC, T20 | |
| Fishing/Vandalism: NONE | |
| Sensors/Tubes Downloaded: Sent to Lab for download | |
| General Comments: No sensors had electrical tape on them causing sensors to slide within mounts. | |

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|---|---------------------------------|
| Buoy Site: 2N 110W Refresh | Mooring Depth: 3724M |
| Mooring Operation: Deployment | Mooring ID#: DM235A |
| Deployed Location: 02 01.71N 110 02.33W | Deployed Date: 6/10/2017 |
| Pre-Deployment On Deck Instrument Failures: NONE | |
| Sensors/Equipment Lost at Sea: NONE | |
| Sensors Damaged During Deployment: NONE | |
| General Comments: High currents and waves causing sea spray around the buoy. Data comparison made with ship's sonic wind sensor, ship's RM Young out of commission. | |

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|---|----------------------------------|
| Buoy Site: 5N 110W Refresh | |
| Mooring Operation: Recovery | Mooring ID#: DM139A |
| Deployed Location: 04 59.91N 110 03.62W | Deployed Date: 5/1/2017 |
| Recovered Location: 05 00.20N 110 04.56W | Recovered Date: 6/12/2017 |
| Sensors/Equipment Lost at Sea: NONE | |
| Sensors Damaged/Fouled: Payload, SSC, T20-T60 | |
| Fishing/Vandalism: NONE | |
| Sensors/Tubes Downloaded: Sent to Lab for download | |
| General Comments: NONE | |

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|--|---------------------------------|
| Buoy Site: 5N 110W Refresh | Mooring Depth: 4238M |
| Mooring Operation: Deployment | Mooring ID#: DM236A |
| Deployed Location: 05 00.34N 110 04.80W | Deployed Date: 6/12/2017 |

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| Pre-Deployment On Deck Instrument Failures: NONE |
| Sensors/Equipment Lost at Sea: NONE |
| Sensors Damaged During Deployment: NONE |
| General Comments: Data comparison made with ship's sonic wind sensor, ship's RM Young out of commission. |

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|---|---------------------------------|
| Buoy Site: 8N 110W Refresh | |
| Mooring Operation: Recovery | Mooring ID#: DM140A |
| Deployed Location: 08 04.40N 110 04.72W | Deployed Date: 5/2/2017 |
| Recovered Location: 08 04.44N 110 04.17W | Recovered Date: 3/4/2016 |
| Sensors/Equipment Lost at Sea: T180 | |
| Sensors Damaged/Fouled: SSC, T20, T40 | |
| Fishing/Vandalism: NONE | |
| Sensors/Tubes Downloaded: Sent to Lab for download | |
| General Comments: NONE | |

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|---|---------------------------------|
| Buoy Site: 8N 110W Refresh | Mooring Depth: 4223M |
| Mooring Operation: Deployment | Mooring ID#: DM237A |
| Deployed Location: 08 02.30N 110 08.46W | Deployed Date: 6/13/2017 |
| Pre-Deployment On Deck Instrument Failures: NONE | |
| Sensors/Equipment Lost at Sea: NONE | |
| Sensors Damaged During Deployment: NONE | |
| General Comments: Constant squalls moving through as deployment and flyby took place. Data comparison made with ship's sonic wind sensor, ship's RM Young out of commission. | |

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|---|----------------------------------|
| Buoy Site: 8N 95W Refresh | |
| Mooring Operation: Recovery | Mooring ID#: DM176A |
| Deployed Location: 08 02.16N 94 58.18W | Deployed Date: 3/9/2016 |
| Recovered Location: 08 02.09N 94 56.84W | Recovered Date: 6/17/2017 |
| Sensors/Equipment Lost at Sea: NONE | |
| Sensors Damaged/Fouled: WIND, AT/RH, SSC, T20 | |
| Fishing/Vandalism: YES, Tow lines hooked to buoy, long line wrapped around the mooring, net wrapped around where top section meets the nilspin. Sensors and cameras wrapped in bags and tape. Wind Stanchion broken and taped back in place with a wooden stick for support. One blade of wind bird prop broken off. | |
| Sensors/Tubes Downloaded: Sent to Lab for download | |
| General Comments: Top section was pulled out and wires broke. Net wrapped around where top section bolts to the nilspin. Tow ropes attached to buoy. | |
| Acoustic release had to be disabled in order for release command to work properly. Likely low power. | |

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|--|---------------------------------|
| Buoy Site: 8N 95W Refresh | Mooring Depth: 3696M |
| Mooring Operation: Deployment | Mooring ID#: DM238A |
| Deployed Location: 08 01.13N 94 58.01W | Deployed Date: 6/17/2017 |
| Pre-Deployment On Deck Instrument Failures: NONE | |
| Sensors/Equipment Lost at Sea: NONE | |
| Sensors Damaged During Deployment: NONE | |
| General Comments: Data comparison made with ship's sonic wind sensor, ship's RM Young | |

out of commission.

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|---|-------------------------------|
| Buoy Site: 5N 110W Refresh | Mooring Depth: 3570M |
| Mooring Operation: VISIT | Mooring ID#: DM177B |
| Repair Location: 04 58.81N 95 00.50W | Repair Date: 6/18/2017 |
| General Comments: VANDALISM, Tower missing, all top side sensors missing. Fishing vessel actively tied off to it prevented recovery of station. It is now collocated with DM239A. No comms with acoustic release either damaged or low on power. | |

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| Buoy Site: 5N 95W Refresh | Mooring Depth: 3574M |
| Mooring Operation: Deployment | Mooring ID#: DM239A |
| Deployed Location: 05 05.21N 94 57.08W | Deployed Date: 6/18/2017 |
| Pre-Deployment On Deck Instrument Failures: NONE | |
| Sensors/Equipment Lost at Sea: NONE | |
| Sensors Damaged During Deployment: NONE | |
| General Comments: Mooring is collocated with DM177B due to fishing vessel being tied up and unable to recover the station. Data comparison made with ship's sonic wind sensor, ship's RM Young out of commission. | |

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| Buoy Site: 2N 95W Refresh | |
| Mooring Operation: Recovery | Mooring ID#: DM178A |
| Deployed Location: 01 55.91N 95 19.46W | Deployed Date: 3/11/2016 |
| Recovered Location: 01 56.40N 95 20.93W | Recovered Date: 6/19/2017 |
| Sensors/Equipment Lost at Sea: WIND | |
| Sensors Damaged/Fouled: SSC, AT/RH, SSC, T20-T100, CAMERA | |
| Fishing/Vandalism: YES. Wind stanchion was broken. Camera was broken off of its mount and covered with a black plastic bag. | |
| Sensors/Tubes Downloaded: Sent to Lab for download | |
| General Comments: NONE | |

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|--|---------------------------------|
| Buoy Site: 2N 95W Refresh | Mooring Depth: 2830M |
| Mooring Operation: Deployment | Mooring ID#: DM240A |
| Deployed Location: 01 56.12N 95 19.66W | Deployed Date: 6/19/2017 |
| Pre-Deployment On Deck Instrument Failures: NONE | |
| Sensors/Equipment Lost at Sea: NONE | |
| Sensors Damaged During Deployment: NONE | |
| General Comments: 1.8 Knot current at time of flyby. Data comparison made with ship's sonic wind sensor, ship's RM Young out of commission. | |

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|---|----------------------------------|
| Buoy Site: 0 95W Refresh | |
| Mooring Operation: Recovery | Mooring ID#: DM179A |
| Deployed Location: 00 05.43N 95 26.34W | Deployed Date: 3/9/2015 |
| Recovered Location: NA | Recovered Date: 6/20/2017 |
| Sensors/Equipment Lost at Sea: ALL, ADRIFT NOT TRANSMITTING | |
| Sensors Damaged/Fouled: NONE | |
| Fishing/Vandalism: YES, Buoy adrift, not transmitting. Mooring broken, acoustic release verified on ocean floor. | |
| Sensors/Tubes Downloaded: Sent to Lab for download | |
| General Comments: NONE | |

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|---|---------------------------------|
| Buoy Site: 0 95W Refresh | Mooring Depth: 3245M |
| Mooring Operation: Deployment | Mooring ID#: DM241A |
| Deployed Location: 00 05.70N 95 26.56W | Deployed Date: 6/20/2017 |
| Pre-Deployment On Deck Instrument Failures: NONE | |
| Sensors/Equipment Lost at Sea: NONE | |
| Sensors Damaged During Deployment: NONE | |
| General Comments: Data comparison made with ship's sonic wind sensor, ship's RM Young out of commission. | |

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| Buoy Site: 2S 95W Refresh | |
| Mooring Operation: Recovery | Mooring ID#: DM180A |
| Deployed Location: 01 59.55S 95 11.86W | Deployed Date: 3/14/2016 |
| Recovered Location: 01 59.11S 95 11.97W | Recovered Date: 6/21/2017 |
| Sensors/Equipment Lost at Sea: ALL MET, TOWER MISSING | |
| Sensors Damaged/Fouled: SSC, T20, T40 | |
| Fishing/Vandalism: YES, Long line on bridle and top sensor. Tower was unbolted and missing. Lead weights taken. | |
| Sensors/Tubes Downloaded: Sent to Lab for download | |
| General Comments: NONE | |

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|---|---------------------------------|
| Buoy Site: 2S 95W Refresh | Mooring Depth: 3424M |
| Mooring Operation: Deployment | Mooring ID#: DM242A |
| Deployed Location: 01 58.52S 95 08.82W | Deployed Date: 6/21/2017 |
| Pre-Deployment On Deck Instrument Failures: NONE | |
| Sensors/Equipment Lost at Sea: NONE | |
| Sensors Damaged During Deployment: NONE | |
| General Comments: Data comparison made with ship's sonic wind sensor, ship's RM Young out of commission. | |

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|---|----------------------------------|
| Buoy Site: 5S 95W Refresh | |
| Mooring Operation: Recovery | Mooring ID#: DM181A |
| Deployed Location: 04 58.72S 94 59.51W | Deployed Date: 3/15/2016 |
| Recovered Location: 04 57.50S 94 59.95W | Recovered Date: 6/22/2017 |
| Sensors/Equipment Lost at Sea: ALL MET, TOWER MISSING, ACOUSTIC RELEASE | |
| Sensors Damaged/Fouled: SSC, T20, T40 | |
| Fishing/Vandalism: YES, Mast and all top side sensors were missing. Part of the buoy hull was cut off due to being hit by a ship. | |
| Sensors/Tubes Downloaded: Sent to Lab for download | |
| General Comments: No comms with acoustic release therefore we couldn't get a release and Nilspin was cut below the last subsurface sensor. | |

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| Buoy Site: 5S 95W Refresh | Mooring Depth: 3925M |
| Mooring Operation: Deployment | Mooring ID#: DM243A |
| Deployed Location: 04 58.35S 94 59.80W | Deployed Date: 6/22/2017 |
| Pre-Deployment On Deck Instrument Failures: NONE | |
| Sensors/Equipment Lost at Sea: NONE | |
| Sensors Damaged During Deployment: NONE | |
| General Comments: Data comparison made with ship's sonic wind sensor, ship's RM Young | |

out of commission.

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|---|----------------------------------|
| Buoy Site: 8S 95W Refresh | |
| Mooring Operation: Recovery | Mooring ID#: DM182A |
| Deployed Location: 07 59.41S 95 15.02W | Deployed Date: 3/5/2015 |
| Recovered Location: 07 59.95S 95 15.21W | Recovered Date: 6/23/2017 |
| Sensors/Equipment Lost at Sea: NONE | |
| Sensors Damaged/Fouled: SSC, T20-T60 | |
| Fishing/Vandalism: NONE | |
| Sensors/Tubes Downloaded: Sent to Lab for download | |
| General Comments: NONE | |

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|---|---------------------------------|
| Buoy Site: 8S 95W Refresh | Mooring Depth: 3966M |
| Mooring Operation: Deployment | Mooring ID#: DM244A |
| Deployed Location: 07 59.35S 95 15.25W | Deployed Date: 6/23/2017 |
| Pre-Deployment On Deck Instrument Failures: NONE | |
| Sensors/Equipment Lost at Sea: NONE | |
| Sensors Damaged During Deployment: NONE | |
| General Comments: Data comparison made with ship's sonic wind sensor, ship's RM Young out of commission. | |

2.2. CTD Casts Completed

Fourteen (14) CTD casts were taken on this cruise

| CTD Operations | | | | |
|-----------------------------|-------------|-------------|---------------|-----------------|
| Coordinates LAT/LONG | | Date | Cast # | Comments |
| 07 58.20 S | 110 03.06 W | Jun 06 2017 | 001_8S_110W | NONE |
| 04 56.84 S | 109 58.60 W | Jun 07 2017 | 002_5S_110W | NONE |
| 01 59.05 S | 109 57.06 W | Jun 08 2017 | 003_2S_110W | NONE |
| 00 02.09 N | 109 53.99 W | Jun 10 2017 | 004_0_110W | NONE |
| 02 00.58 N | 110 01.20 W | Jun 11 2017 | 005_2N_110W | NONE |
| 04 59.31 N | 110 04.45 W | Jun 12 2017 | 006_5N_110W | NONE |
| 08 01.16 N | 110 08.34 W | Jun 13 2017 | 007_8N_110W | NONE |
| 07 59.58 N | 094 56.04 W | Jun 17 2017 | 008_8N_95W | NONE |
| 05 04.11 N | 094 57.79 W | Jun 18 2017 | 009_5N_95W | NONE |
| 01 55.51 N | 095 18.61 W | Jun 19 2017 | 010_2N_95W | NONE |
| 00 04.84 N | 095 25.96 W | Jun 20 2017 | 011_0N_95W | NONE |
| 01 58.93 S | 095 07.42 W | Jun 21 2017 | 012_2S_95W | NONE |
| 04 59.58 S | 094 58.85 W | Jun 22 2017 | 013_5S_95W | NONE |
| 07 59.83 S | 095 13.91 W | Jun 23 2017 | 014_8S_95W | NONE |

2.3. Ancillary Science Projects Supported by the Cruise

The following outlines the ancillary science work performed in conjunction with the TAO operations on this cruise:

Atlantic Oceanographic and Meteorological Laboratory (AMOL) Surface Drifting Floats

Sixteen (16) AOML Surface Drifters were scheduled for deployment on this cruise. The chief scientist verified and briefed the Operations Officer on the deployment positions prior to the start of the cruise. All AOML Surface Drifter deployments were completed as scheduled.

Questions concerning AOML Surface Drifters should be directed to:

Shaun Dolk,
NOAA/AOML
Global Drifter
Center,
Tel: (305) 361-4546
Fax: (305) 361-4436
E-mail: shaun.dolk@noaa.gov

The following outlines the AOML Drifting floats deployed during this cruise:

| AOML Floats | | | | |
|-----------------------------|-------------|-------------|-----------------|-----------------|
| Coordinates LAT/LONG | | Date | SN# | Comments |
| 07 57.038S | 110 04.398W | 6/6/2017 | 300234064763650 | 8S 110W |
| 04 57.403S | 109 58.121W | 6/7/2017 | 300234064761600 | 5S 110W |
| 02 59.913S | 109 58.121W | 6/8/2017 | 300234064760630 | 3S 110W |
| 02 59.913S | 109 57.944W | 6/8/2017 | 300234064760570 | 3S 110W |
| 00 01.147N | 109 55.280W | 6/10/2017 | 300234064760600 | 0 110W |
| 00 01.365N | 109 55.297W | 6/10/2017 | 300234064761570 | 0 110W |
| 03 00.004N | 110 57.614W | 6/11/2017 | 300234064763640 | 3N 110W |
| 03 00.004N | 110 57.614W | 6/11/2017 | 300234064761560 | 3N 110W |
| 05 00.897N | 110 04.156W | 6/12/2017 | 300234064760620 | 5N 110W |
| 05 00.933N | 110 04.159W | 6/12/2017 | 300234064760660 | 5N 110W |
| 08 02.522N | 110 08.421W | 6/13/2017 | 300234064760560 | 8N 110W |
| 05 03.064N | 094 57.304W | 6/18/2017 | 300234064763660 | 5N 95W |
| 03 00.015N | 095 12.807W | 6/19/2017 | 300234064764570 | 3N 95W |
| 03 00.002N | 095 12.809W | 6/19/2017 | 300234064760690 | 3N 95W |
| 00 05.414N | 095 26.634W | 6/20/2017 | 300234064763620 | 0 95W |
| 00 05.398N | 095 26.627W | 6/20/2017 | 300234064764630 | 0 95W |
| 00 05.377N | 095 26.614W | 6/20/2017 | 300234064764310 | 0 95W |
| 03 00.000S | 095 05.954W | 6/22/2017 | 300234064764560 | 3S 95W |
| 03 00.125S | 095 05.949W | 6/22/2017 | 300234064764640 | 3S 95W |
| 04 57.946S | 094 59.942W | 6/22/2017 | 300234064764680 | 5S 95W |

Four (4) SOLO-2 floats were scheduled for deployment on this cruise. Questions concerning these floats should be directed to:

Bill Hansen, NOAA/NDBC
Tel: (228) 688-1410
E-mail: bill.hansen@noaa.gov

The following outlines the SOLO-2 floats deployed during the cruise:

| WHOI SOLO-2 Floats | | | | | |
|-----------------------------|-------------|-------------|-------------|------------|-----------------|
| Coordinates LAT/LONG | | Date | Time | SN# | Comments |
| 15 00.00S | 094 21.6W | 6/1/2017 | 12:34 | 7420 | NONE |
| 11 59.90S | 102.14.3W | 6/3/2017 | 04:04 | 7417 | NONE |
| 08 59.832S | 109 44.237W | 6/4/2017 | 21:10 | 7421 | NONE |
| 05 59.977S | 095 05.414W | 6/22/2017 | 04:22 | 7422 | NONE |