



<b>BUG- ELECTRONICS CHECKLIST</b>		Cruise ID: <b>MGL1610</b>	Site ID: <b>SS21</b>
Instrument Type: (SP) LP ABA FLIP		Mission File: Trehu_deploy.txt	LAT (Dec°): <b>-20.31501</b>
<b>LAB CHECKOUT</b>		IRIS ID: 16-2, Network Code: XW	LON (Dec°): <b>-72.44004</b>
Date: 8/23/16	By: Sean McPeak	<b>DEPLOYMENT SETUP</b>	
<b>LOGGER INFORMATION</b>		YYYY:JD <b>2016:299</b> By: <b>EA</b>	Water Depth (M): <b>4423</b>
Logger Endcap # <b>SP200</b>		Power Relays:	(V) Voltage: <b>9.18</b>
CF Serial Number: <b>2015-007</b>		Main (QM1) <input checked="" type="checkbox"/> Trillium (QS1) <input checked="" type="checkbox"/>	Temp: <b>71.3</b>
CF Size: <b>32GB</b>		Clock (QC1) <input checked="" type="checkbox"/> Analog (QA1) <input checked="" type="checkbox"/>	Set Header: <b>SS21</b>
Number A2D files: <b>5</b>		Erase housekeeping data (he1234) <input checked="" type="checkbox"/>	
Expected Data Size: <b>10GB - mSEED</b>		Mount CF (FV): <input checked="" type="checkbox"/>	A2D Dat Files Found: <b>5</b>
Logger Module # <b>14013</b>		Current LBA static (L)?: <input checked="" type="checkbox"/> <b>1079203</b> { use multiple (L) commands }	
<b>BATTERY INFORMATION</b>		Enable FPGA Reset Detect (W4,1): <input checked="" type="checkbox"/>	
Main Power Type: Alkaline Pro Battery <b>9.70V</b>		Save Mission to EEPROM (ZL): <input checked="" type="checkbox"/>	
Quantity: 3xProBat ALK Date checked: <b>8/28/16</b>		Display Mission (X20000): <input checked="" type="checkbox"/>	Verify Mission matches expected: <input checked="" type="checkbox"/>
Clock Pack Type: Alkaline Energizer <b>3.23V</b>		Initialize Sample Rate and Gain (e.g. a50,1,1,1,64): [ ]	
Quantity: 2D Energizer Date checked: <b>8/28/16</b>		Sample Rate: <b>2000</b>	# days A2D recording: <b>60.9</b>
Anticipated Duration: 60 days		Gains: CH1 <b>64</b> CH2 <b>64</b> CH3 <b>64</b> CH4 <b>16</b>	
Notes:		A2D Check {1st two char.}: (M1): <input checked="" type="checkbox"/> (M2): <input checked="" type="checkbox"/> (M3): <input checked="" type="checkbox"/> (M4): <input checked="" type="checkbox"/>	
		Values changing on all channels @ appropriate rate? <input checked="" type="checkbox"/>	
		Clock Sync Time (U): <b>2016:299:12:11:00</b> TFOM: <b>4</b>	
<b>DEPLOYMENT INFORMATION</b>		SYS Minutes: <b>0</b> CLK Minutes: <b>0</b> Diff by ~1: <input checked="" type="checkbox"/>	
Date: <b>2016:09</b>	By: <b>EA</b>	System TAG (PS): <b>2016:299:12:12:00.0000346</b>	
Data Logger: <b>BS16-001</b>		Clock TAG (PC): <b>2016:299:12:12:59.9999976</b>	
Acoustics: <b>80</b>		Type "D" To be sure clocks zero out: <input checked="" type="checkbox"/> <b>AFT SYNC</b>	
Frame: <b>F58</b>		*** Start Mission (ZR): <input checked="" type="checkbox"/> ***	
Float: <b>M655</b>		<b>RECOVERY INFORMATION</b>	
Radio: <b>NR 48</b>		YYYY:JD <b>2016:307</b> By: <b>EA</b>	
Strobe: <b>NS 19</b>		(V) Voltage: <b>8.27</b>	Temp: <b>64.6</b>
Geophone: <b>OBS10-0P33</b>		FPGA Not Reset (R0): <input checked="" type="checkbox"/>	{ If reset <b>DO NOT</b> Click End Logging }
Hydrophone ( /DPG): <b>OBS10-AYD7H</b>		LBA Incrementing by # chans (L): <input checked="" type="checkbox"/>	{ use multiple (L) commands }
Deploy Time: <b>2016:299:13:39:00</b>		End Logging (T1234): <input checked="" type="checkbox"/>	
Acoustic Disabled <input checked="" type="checkbox"/>		Last Sector: <b>5361968</b>	# Sectors: <b>4282766</b>
Relocation Survey [Y/N/NA]		Save Time TAG (u): <b>2016:307:07:43:00</b> TFOM: <b>4</b>	
REL LAT Dec°:		** System TAG (PS): <b>2016:307:07:43:59.9945813</b>	
REL LON Dec°:		** Drift {based on 'PS' command results}: <b>-0.0054187</b>	
		Clock TAG (PC): <b>2016:307:07:45:59.9945481</b>	
		Save Housekeeping to CF (HS): <input checked="" type="checkbox"/> <b>2x</b>	

NOTES:

revised 19 Aug 2016

A2D Gains Verification  
64, 64, 64, 16 ✓

\* AT RECOVERY THE  
HYD CABLE BOOT FELT LIKE  
IT MAY HAVE BACKED OFF.  
NOT 100% SURE.

Com 42



<b>LC4x4- ELECTRONICS CHECKLIST</b>		Cruise ID: MGL1610	Site ID: <u>SS04</u>
Instrument Type: SP 4x4		IRIS ID: 16-2, Network Code: XW	LAT (Dec°): <u>-21.12392</u>
<b>LAB CHECKOUT</b>		<b>DEPLOYMENT SETUP</b>	
Date: 20 Aug 2016 By: Sean		Date: <u>2016.303</u>	LON (Dec°): <u>-78.62265</u>
<b>LOGGER INFORMATION</b> <u>SP11</u>		By: <u>MR6</u>	Water Depth (M): <u>1827</u>
CPU: <u>4708-055</u>		Software Version: <u>1.045</u>	
Seascan: <u>SIN 898</u>		<b>Sync Time With GPS:</b>	
A2D: <u>0108027</u> Jumpers Check: <input checked="" type="checkbox"/>		<u>2016:303:09:16:00</u>	
Clock: _____		OBS Time OK?: <input checked="" type="checkbox"/>	TFOM: <u>4</u>
Power: <u>5107 068</u>		TAG Time OK?: <input checked="" type="checkbox"/>	
Backplane: _____		Wakeup Time: <u>2016:303:12:00:00</u>	
CF S/N (A): <u>2008-035</u> Size: <u>16 GB</u>	# of Channels: <u>4</u>	Sample Rate: <u>200</u>	
CF S/N (B): _____ Size: _____	CH-0 (L28X) Gain: <u>04</u>	<b>CONFIG SELECTION</b> ↓ <u>N</u>	
CF S/N (C): _____ Size: _____	CH-1 (L28Y) Gain: <u>04</u>		
Expected Data Size: <u>10.46 GB</u>	CH-2 (L28Z) Gain: <u>04</u>		
<b>BATTERY INFORMATION</b>		CH-3 (HYD) Gain: <u>10</u>	
Main Power Type: Alkaline Pro Battery		Header Comment: <u>SS04</u>	
Quantity: <u>3xALK2</u> Voltage: <u>9.74V</u>		Start Experiment: <input checked="" type="checkbox"/>	TAG OK?: <input checked="" type="checkbox"/>
Clock Pack Type: Alkaline Energizer		Clock Battery OK: <input checked="" type="checkbox"/>	Dessicant: <input checked="" type="checkbox"/>
Quantity: 2D Voltage: <u>3.25V</u>		PURGE 6"Hg: <input checked="" type="checkbox"/>	Seal Screw: <input checked="" type="checkbox"/>
Estimated Duration: 60 days			
<b>DEPLOYMENT INFORMATION</b>		<b>RECOVERY INFORMATION</b>	
Date: <u>2016:303</u> By: <u>TEA</u>		Date: <u>334:0704</u> By: <u>MR6</u>	
Data Logger #: <u>008 SP11</u>		<b>OBS Time TAG (1st):</b>	
Acoustics #: <u>148</u>		<u>2016:334:07:35:00:1185819</u>	
Frame: <u>F40</u>		<b>OBS Time TAG (2nd):</b>	
Float: <u>M635</u>		<u>2016:334:07:36:00:1185857</u>	
Radio: <u>NR 29</u> On: [ ]	OBS Time OK?: <input checked="" type="checkbox"/>	TFOM: <u>4</u>	
Strobe: <u>NS 27</u> On: [ ]	<b>Drift:</b> <u>+ 0.1185857</u>		
Geophone / Trillium <u>08518 GP10</u>	Raw File Name:		
Hydrophone / DPG <u>HYD 07</u>	<u>SS04.0PS</u>		
Deploy Time (GMT): <u>2016:303:2:10:06:00</u>			
Acoustic Disabled <input checked="" type="checkbox"/>			
Relocation Survey (Y / <input checked="" type="checkbox"/> )	REL LAT (Dec°):	REL LON (Dec°):	

**NOTES:**

SOP { A2D's ✓  
Sync + TAG ✓

- No Radio  
- Strobe very Dim



<b>LC4x4- ELECTRONICS CHECKLIST</b>		Cruise ID: MGL1610	Site ID: <u>SS05</u>
Instrument Type: SP 4x4		IRIS ID: 16-2, Network Code: XW	LAT (Dec°): <u>-20.99101</u>
<b>LAB CHECKOUT</b>		<b>DEPLOYMENT SETUP</b>	
Date: 20 Aug 2016 By: Sean		Date: <u>2016:303</u>	LON (Dec°): <u>-70.64031</u>
<b>LOGGER INFORMATION</b> <u>SP56</u>		By: <u>MR6</u>	Water Depth (M): <u>1039</u>
CPU: <u>4708-030</u>		Software Version: <u>1.04K</u>	Acoustic Unit #: <u>84</u>
Seascan: <u>S/N 105</u>		<b>Sync Time With GPS:</b>	
A2D: <u>0108090</u> Jumpers Check: <input checked="" type="checkbox"/>		<u>2016:303:07:21:00</u>	
Clock: <u>                    </u>		OBS Time OK?: <input checked="" type="checkbox"/>	TFOM: <u>4</u>
Power: <u>5107049</u>		TAG Time OK?: <input checked="" type="checkbox"/>	
Backplane: <u>                    </u>		Wakeup Time: <u>2016:303:11:00:00</u>	
CF S/N (A): <u>2008-628</u> Size: <u>16 GB</u>		# of Channels: <u>4</u>	Sample Rate: <u>200</u>
CF S/N (B):	Size:	CH-0 (L28X) Gain: <u>64</u>	<b>CONFIG SELECTION</b> ↓ <u>N</u>
CF S/N (C):	Size:	CH-1 (L28Y) Gain: <u>64</u>	
Expected Data Size: <u>10.46 GB</u>		CH-2 (L28Z) Gain: <u>64</u>	
<b>BATTERY INFORMATION</b>		CH-3 (HYD) Gain: <u>16</u>	
Main Power Type: Alkaline Pro Battery		Header Comment: <u>SS05</u>	
Quantity: <u>2</u>	Voltage: <u>9.77V</u>	Start Experiment: <input checked="" type="checkbox"/>	TAG OK?: <input checked="" type="checkbox"/>
Clock Pack Type: Alkaline Energizer		Clock Battery OK: <input checked="" type="checkbox"/>	Dessicant: <input checked="" type="checkbox"/>
Quantity: 2D	Voltage: <u>3.25V</u>	PURGE 6"Hg: <input checked="" type="checkbox"/>	Seal Screw: <input checked="" type="checkbox"/>
Estimated Duration: 60 days			
<b>DEPLOYMENT INFORMATION</b>		<b>RECOVERY INFORMATION</b>	
Date: <u>2016:302</u>	By: <u>MR6</u>	Date: <u>2016:334</u>	By: <u>BA</u>
Data Logger #: <u>SP56</u>		<b>OBS Time TAG (1st):</b>	
Acoustics #: <u>84</u>		<u>2016:334:09:15:00, 0334432</u>	
Frame: <u>FL2</u>		<b>OBS Time TAG (2nd):</b>	
Float: <u>M631</u>		<u>2016:334:09:16:00, 0334436</u>	
Radio: <u>NR19</u> On: [ ]		OBS Time OK?: <input checked="" type="checkbox"/>	TFOM: <u>4</u>
Strobe: <u>NS26</u> On: [ ]		<b>Drift:</b>	
Geophone / Trillium <u>OBS10-6P16</u>		<u>0, 0334436</u>	
Hydrophone / DPG <u>OBS10-4Y068</u>		Raw File Name:	
Deploy Time (GMT): <u>2016:303:09:05:00</u>		<u>SS05.OB5</u>	
Acoustic Disabled <input checked="" type="checkbox"/>			
Relocation Survey (Y / <u>NA</u> )	REL LAT (Dec°):	REL LON (Dec°):	

Set (A2D's) ✓  
up (Sync + TAG) ✓



<b>LC4x4- ELECTRONICS CHECKLIST</b>		Cruise ID: MGL1610	Site ID: <u>SS06</u>
Instrument Type: SP 4x4		IRIS ID: 16-2, Network Code: XW	LAT (Dec°): <u>-20.85512</u>
<b>LAB CHECKOUT</b>		<b>DEPLOYMENT SETUP</b>	
Date: 20 Aug 2016 By: Sean		Date: <u>2016:302</u>	LON (Dec°): <u>-70.66034</u>
<b>LOGGER INFORMATION</b> <u>SP13</u>		By: <u>MRB</u>	Water Depth (M): <u>1785</u>
CPU: <u>A029</u>		Software Version: <u>1.04K</u>	
Seascan: <u>S/N 1949</u>		<b>Sync Time With GPS:</b>	
A2D: <u>4708-20</u> Jumpers Check: [✓]		<u>2016:302:21:33:00</u>	
Clock: _____		OBS Time OK?: [✓]	TFOM: <u>4</u>
Power: <u>5107007</u>		TAG Time OK?: [✓]	
Backplane: _____		Wakeup Time: <u>2016:303:01:00:00</u>	
CF S/N (A): <u>2015-024</u> Size: <u>16GB</u>		# of Channels: <u>4</u>	Sample Rate: <u>200</u>
CF S/N (B): _____ Size: _____		<b>CONFIG SELECTION ↓</b>	
CF S/N (C): _____ Size: _____			
Expected Data Size: <u>10.46GB</u>			
<b>BATTERY INFORMATION</b>		CH-0 (L28X) Gain: <u>04</u>	
Main Power Type: Alkaline Pro Battery		CH-1 (L28Y) Gain: <u>04</u>	
Quantity: <u>3=ALKEP203</u> Voltage: <u>9.75V</u>		CH-2 (L28Z) Gain: <u>04</u>	
Clock Pack Type: Alkaline Energizer		CH-3 (HYD) Gain: <u>10</u>	
Quantity: 2D Voltage: <u>3.23V</u>		Header Comment: <u>SS06</u>	
Estimated Duration: 60 days		Start Experiment: [✓]	TAG OK?: [✓]
<b>DEPLOYMENT INFORMATION</b>		Clock Battery OK: [✓]	Dessicant: [✓]
Date: <u>2016:302</u> By: <u>MRB</u>		PURGE 6"Hg: [✓]	Seal Screw: [✓]
<b>RECOVERY INFORMATION</b>		Seal Screw: [✓]	
Date: <u>2016:302</u> By: <u>MRB</u>		Date: <u>2016:334</u> By: <u>JA</u>	
Data Logger #: <u>SP13</u>	<b>OBS Time TAG (1st):</b>		
Acoustics #: <u>44</u>	<u>2016:334:11:23:00.0053961</u>		
Frame: <u>F96</u>	<b>OBS Time TAG (2nd):</b>		
Float: <u>M620</u>	<u>2016:334:11:24:00.0053958</u>		
Radio: <u>NR12</u> On: [✓]	OBS Time OK?: [✓]	TFOM: <u>4</u>	
Strobe: <u>NS69</u> On: [✓]	<b>Drift:</b>		
Geophone / Trillium <u>OBS10-GP64</u>	<u>0.0053958</u>		
Hydrophone / DPG <u>OBS10-HYD 73</u>	Raw File Name:		
Deploy Time (GMT): _____	<u>SS06.0B5</u>		
Acoustic Disabled [✓]	REL LAT (Dec°): _____		
Relocation Survey (Y / NA) <u>(NA)</u>	REL LON (Dec°): _____		

NOTES:

† {A2D} ✓  
 † {Sync+TAG} ✓



<b>LC4x4- ELECTRONICS CHECKLIST</b>		Cruise ID: MGL1610	Site ID: <u>SS07</u>
Instrument Type: SP 4x4		IRIS ID: 16-2, Network Code: XW	LAT (Dec°): <u>-20.73264</u>
<b>LAB CHECKOUT</b>		<b>DEPLOYMENT SETUP</b>	
Date: 20 Aug 2016 By: Sean		Date: <u>2016:302</u>	LON (Dec°): <u>-70.68350</u>
<b>LOGGER INFORMATION</b> <u>SP55</u>		By: <u>EA</u>	Water Depth (M): <u>1912</u>
CPU: <u>0108048</u>		Software Version: <u>1.0.4K</u>	
Seascan: <u>S/N 1158</u>		<b>Sync Time With GPS:</b>	
A2D: <u>01</u> Jumpers Check: [ ]		<u>3X 2016:302:19:47:00</u> ★	
Clock: <u>————</u>		OBS Time OK?: [✓]	TFOM: <u>4</u>
Power: <u>5107062</u>		TAG Time OK?: [✓]	
Backplane: <u>————</u>		Wakeup Time: <u>2016:302:23:00:00</u>	
CF S/N (A): <u>2015-027</u> Size: <u>16GB</u>	# of Channels: <u>4</u>	Sample Rate: <u>200</u>	
CF S/N (B): _____ Size: _____	CH-0 (L28X) Gain: <u>64</u>	CONFIG SELECTION ↓ <u>N</u>	
CF S/N (C): _____ Size: _____	CH-1 (L28Y) Gain: <u>64</u>		
Expected Data Size: <u>10.46GB</u>	CH-2 (L28Z) Gain: <u>64</u>		
<b>BATTERY INFORMATION</b>		CH-3 (HYD) Gain: <u>16</u>	
Main Power Type: Alkaline Pro Battery		Header Comment: <u>SS07</u>	
Quantity: <u>40D</u> Voltage: <u>9.77V</u>		Start Experiment: [✓] TAG OK?: [✓]	
Clock Pack Type: Alkaline Energizer		Clock Battery OK: [✓] Dessicant: [✓]	
Quantity: 2D Voltage: <u>3.26V</u>		PURGE 6"Hg: [✓] Seal Screw: [✓]	
Estimated Duration: 60 days			
<b>DEPLOYMENT INFORMATION</b>		<b>RECOVERY INFORMATION</b>	
Date: <u>2016:302</u> By: <u>MRB</u>		Date: <u>2016:334</u> By: <u>EA</u>	
Data Logger #: <u>55</u>	<b>OBS Time TAG (1st):</b>		
Acoustics #: <u>82</u>	<u>2016:334:13:02:59.9954964</u>		
Frame: <u>F32</u>	<b>OBS Time TAG (2nd):</b>		
Float: <u>M610</u>	<u>2016:334:13:03:59.9954966</u>		
Radio: <u>NR59</u> On: [✓]	OBS Time OK?: [✓]		TFOM: <u>4</u>
Strobe: <u>N558</u> On: [✓]	<b>Drift:</b>		
Geophone / Trillium <u>08510-6P57</u>	<u>-0.0045034</u>		
Hydrophone / DPG <u>08510-41058</u>	Raw File Name:		
Deploy Time (GMT): _____	<u>SS07.038</u>		
Acoustic Disabled [✓]			
Relocation Survey (Y / NA)	REL LAT (Dec°): _____	REL LON (Dec°): _____	

NOTES:

if ADD'S ✓  
P Sync TAG ✓

★ 4TH sync: 2016:302:19:49:00  
5TH sync: 2016:302:19:51:00  
00.0000994 OK



<b>LC4x4- ELECTRONICS CHECKLIST</b>		Cruise ID: MGL1610	Site ID: <u>SS68</u>
Instrument Type: SP 4x4		IRIS ID: 16-2, Network Code: XW	LAT (Dec°): <u>-28.63176</u>
<b>LAB CHECKOUT</b>		<b>DEPLOYMENT SETUP</b>	
Date: 20 Aug 2016 By: Sean		Date: <u>2016.302</u>	LON (Dec°): <u>-78.97072</u>
<b>LOGGER INFORMATION</b> <u>SP57</u>		By: <u>MRB</u>	Water Depth (M): <u>3772</u>
CPU: <u>Ø1Ø8Ø55</u>		Software Version: <u>1.04K</u>	Acoustic Unit #: <u>98</u>
Seascan: <u>SIN79Ø</u>		<b>Sync Time With GPS:</b>	
A2D: <u>Ø1Ø8Ø51</u> Jumpers Check: <input checked="" type="checkbox"/>		<u>2016:302:03:16:00</u>	
Clock: <u>                    </u>		OBS Time OK?: <input checked="" type="checkbox"/>	TFOM: <u>4</u>
Power: <u>ØØ6</u>		TAG Time OK?: <input checked="" type="checkbox"/>	
Backplane: <u>                    </u>		Wakeup Time: <u>2016:302:Ø7:00:00</u>	
CF S/N (A): <u>2008-541</u> Size: <u>16GB</u>	# of Channels: <u>4</u>	Sample Rate: <u>200</u>	
CF S/N (B):                      Size:	CH-0 (L28X) Gain: <u>64</u>	<b>CONFIG SELECTION ↓</b> <u>N</u>	
CF S/N (C):                      Size:	CH-1 (L28Y) Gain: <u>64</u>		
Expected Data Size: <u>10.46GB</u>	CH-2 (L28Z) Gain: <u>64</u>		
<b>BATTERY INFORMATION</b>	CH-3 (HYD) Gain: <u>16</u>		
Main Power Type: Alkaline Pro Battery	Header Comment: <u>SS68</u>		
Quantity: <del>2D</del> <u>3xALK</u> Voltage: <u>9.77V</u>	Start Experiment: <input checked="" type="checkbox"/>	TAG OK?: <input checked="" type="checkbox"/>	
Clock Pack Type: Alkaline Energizer	Clock Battery OK: <input checked="" type="checkbox"/>	Dessicant: <input checked="" type="checkbox"/>	
Quantity: 2D Voltage: <u>3.26V</u>	PURGE 6"Hg: <input checked="" type="checkbox"/>	Seal Screw: <input checked="" type="checkbox"/>	
Estimated Duration: 60 days	<b>DEPLOYMENT INFORMATION</b>		
<b>DEPLOYMENT INFORMATION</b>	<b>RECOVERY INFORMATION</b>		
Date: <u>2016.302</u> By: <u>MRB</u>	Date: <u>335</u> By: <u>SEA</u>	<b>OBS Time TAG (1st):</b>	
Data Logger #: <u>SP57</u>	<u>2016:335:Ø9:2Ø:59.437835Ø</u>		
Acoustics #: <u>98</u>	<b>OBS Time TAG (2nd):</b>		
Frame: <u>F47</u>	<u>2016:335:Ø9:21:59.4378259</u>		
Float: <u>M6 2016</u>	OBS Time OK?: <input checked="" type="checkbox"/>	TFOM: <u>4</u>	
Radio: <u>NR22</u> On: [ ]	<b>Drift:</b>		
Strobe: <u>NS85</u> On: [ ]	<u>-Ø.5621741</u>		
Geophone / Trillium <u>ØBS10-ØP12</u>	Raw File Name:		
Hydrophone / DPG <u>ØBS10-HYD18</u>	<u>SS68.ØBØ</u>		
Deploy Time (GMT):	REL LAT (Dec°):	REL LON (Dec°):	
Acoustic Disabled <input checked="" type="checkbox"/>			
Relocation Survey (Y / <u>NA</u> )			

NOTES:

revised 19 Aug 2016

Set up { ADD'SV }  
          { SHOOT TAG }

LAT: -28.63176  
LON: -78.97272



<b>LC4x4- ELECTRONICS CHECKLIST</b>		Cruise ID: MGL1610	Site ID: <u>SS61</u>
Instrument Type: SP 4x4		IRIS ID: 16-2, Network Code: XW	LAT (Dec°): <u>-20.59179</u>
<b>LAB CHECKOUT</b>		<b>DEPLOYMENT SETUP</b>	
Date: 20 Aug 2016 By: Sean		Date: <u>2016:302</u>	LON (Dec°): <u>-70.84128</u>
<b>LOGGER INFORMATION</b> <u>SP-94</u>		By: <u>MRB</u>	Water Depth (M): <u>2436</u>
CPU: <u>0108080</u>		Software Version: <u>1.04K</u>	
Seascan: <u>SIN 883</u>		<b>Sync Time With GPS:</b>	
A2D: <u>0108032</u> Jumpers Check: <input checked="" type="checkbox"/>		<u>2016:302:02:24:00</u>	
Clock: <u>                    </u>		OBS Time OK?: <input checked="" type="checkbox"/>	TFOM: <u>4</u>
Power: <u>A023</u>		TAG Time OK?: <input checked="" type="checkbox"/>	
Backplane: <u>                    </u>		Wakeup Time: <u>2016:302:05:00:00</u>	
CF S/N (A): <u>2008-607</u> Size: <u>16GB</u>		# of Channels: <u>4</u>	Sample Rate: <u>200</u>
CF S/N (B):                      Size:		CH-0 (L28X) Gain: <u>64</u>	
CF S/N (C):                      Size:		CH-1 (L28Y) Gain: <u>64</u>	
Expected Data Size: <u>10.46GB</u>		CH-2 (L28Z) Gain: <u>64</u>	
<b>BATTERY INFORMATION</b>		CH-3 (HYD) Gain: <u>16</u>	
Main Power Type: Alkaline Pro Battery		Header Comment: <u>SS61</u>	
Quantity: <del>3</del> <u>3</u> ProBA Voltage: <u>9.76V</u>		Start Experiment: <input checked="" type="checkbox"/>	
Clock Pack Type: Alkaline Energizer		TAG OK?: <input checked="" type="checkbox"/>	
Quantity: 2D Voltage: <u>3.25V</u>		Clock Battery OK: <input checked="" type="checkbox"/>	
Estimated Duration: 60 days		PURGE 6"Hg: <input checked="" type="checkbox"/>	
<b>DEPLOYMENT INFORMATION</b>		<b>RECOVERY INFORMATION</b>	
Date: <u>2016:302</u> By: <u>MRB</u>		Date: <u>335</u> By: <u>TEA</u>	
Data Logger #: <u>SP94</u>		<b>OBS Time TAG (1st):</b>	
Acoustics #: <u>27</u>		<u>2016:335:11:09:00.0402881</u>	
Frame: <u>F1Q1</u>		<b>OBS Time TAG (2nd):</b>	
Float: <u>M646</u>		<u>2016:335:11:10:00.0402889</u>	
Radio: <u>NR48</u> On: <input checked="" type="checkbox"/>		OBS Time OK?: <input checked="" type="checkbox"/>	
Strobe: <u>NS12</u> On: <input checked="" type="checkbox"/>		TFOM: <u>4</u>	
Geophone / Trillium <u>OBS10-6P409</u>		<b>Drift:</b>	
Hydrophone / DPG <u>-N/A- SN#</u>		<u>0.0402889</u>	
Deploy Time (GMT): <input checked="" type="checkbox"/>		Raw File Name:	
Acoustic Disabled <input checked="" type="checkbox"/>		<u>SS61.OBS</u>	
Relocation Survey (Y / NA)		REL LAT (Dec°):	REL LON (Dec°):

NOTES:

+ SADD's ✓  
 + Sync+TAG ✓



V

<b>LC4x4- ELECTRONICS CHECKLIST</b>		Cruise ID: MGL1610	Site ID: <u>SS08</u>
Instrument Type: SP 4x4		IRIS ID: 16-2, Network Code: XW	LAT (Dec°): <u>-20.56390</u>
<b>LAB CHECKOUT</b>		<b>DEPLOYMENT SETUP</b>	
Date: 20 Aug 2016 By: Sean		Date: <u>2016:301</u>	LON (Dec°): <u>-70.69584</u>
<b>LOGGER INFORMATION</b> <u>SP-75</u>		By: <u>MR6</u>	Water Depth (M): <u>1641</u>
CPU: <u>4708-009</u>		Software Version: <u>1045</u>	
Seascan: <u>SIN 793</u>		<b>Sync Time With GPS:</b>	
A2D: <u>0108003</u> Jumpers Check: <input checked="" type="checkbox"/>		<u>2016:301:23:12:00</u>	
Clock: <u>                    </u>		OBS Time OK?: <input checked="" type="checkbox"/>	TFOM: <u>4</u>
Power: <u>5107020</u>		TAG Time OK?: <input checked="" type="checkbox"/>	
Backplane: <u>                    </u>		Wakeup Time: <u>2016:302:03:00:00</u>	
CF S/N (A): <u>2008-539</u> Size: <u>16GB</u>		# of Channels: <u>4</u>	Sample Rate: <u>200</u>
CF S/N (B):                      Size:		CH-0 (L28X) Gain: <u>04</u>	<b>CONFIG SELECTION</b> ↓ <u>N</u>
CF S/N (C):                      Size:		CH-1 (L28Y) Gain: <u>04</u>	
Expected Data Size: <u>10.46GB</u>		CH-2 (L28Z) Gain: <u>04</u>	
<b>BATTERY INFORMATION</b>		CH-3 (HYD) Gain: <u>10</u>	
Main Power Type: Alkaline Pro Battery		Header Comment: <u>SS08</u>	
Quantity: <u>40D</u> <u>3-ALK Pro Batt</u> Voltage: <u>9.75V</u>		Start Experiment: <input checked="" type="checkbox"/>	TAG OK?: <input checked="" type="checkbox"/>
Clock Pack Type: Alkaline Energizer		Clock Battery OK: <input checked="" type="checkbox"/>	Dessicant: <input type="checkbox"/>
Quantity: 2D Voltage: <u>3.25V</u>		PURGE 6"Hg: <input checked="" type="checkbox"/>	Seal Screw: <input checked="" type="checkbox"/>
Estimated Duration: 60 days		<b>RECOVERY INFORMATION</b>	
<b>DEPLOYMENT INFORMATION</b>		Date: <u>335</u> By: <u>TEA</u>	
Date: <u>2016:302</u> By: <u>MR6</u>		<b>OBS Time TAG (1st):</b>	
Data Logger #: <u>75</u>	<u>2016:335:13:08:00.4660277</u>		
Acoustics #: <u>77</u>	<b>OBS Time TAG (2nd):</b>		
Frame: <u>F100</u>	<u>2016:335:13:08:59.7538443</u>		
Float: <u>MG49</u>	OBS Time OK?: <input checked="" type="checkbox"/>	TFOM: <u>4</u>	
Radio: <u>NR42</u> On: <input checked="" type="checkbox"/>	<b>Drift:</b>		
Strobe: <u>NS57</u> On: <input checked="" type="checkbox"/>	<u>-0.2461557</u>		
Geophone / Trillium <u>0BS10-6P30</u>	Raw File Name: <u>SS08.OBS</u>		
Hydrophone / DPG <u>2016-01</u>	REL LAT (Dec°):		
Deploy Time (GMT): <u>2016:302:02:50</u>	REL LON (Dec°):		
Acoustic Disabled <input checked="" type="checkbox"/>			
Relocation Survey (Y / NA)			

NOTES:

Setup { A2D's ✓  
          { Sync + TAG ✓

- NO RADIO NR42



<b>LC4x4- ELECTRONICS CHECKLIST</b>		Cruise ID: MGL1610	Site ID: <u>SS64</u>
Instrument Type: SP 4x4		IRIS ID: 16-2, Network Code: XW	LAT (Dec°): <u>-20.54295</u>
<b>LAB CHECKOUT</b>		<b>DEPLOYMENT SETUP</b>	
Date: 20 Aug 2016 By: Sean		Date: <u>2016:301</u>	LON (Dec°): <u>-70.55258</u>
<b>LOGGER INFORMATION</b> <u>SP-20</u>		By: <u>MR6</u>	Water Depth (M): <u>884</u>
CPU: <u>AΦ</u>	Software Version: <u>1.04K</u>		
Seascan: <u>SIN 1645</u>	Sync Time With GPS:		
A2D: <u>ΦΦ8005</u> Jumpers Check: [ <input checked="" type="checkbox"/> ]	<u>2016:301:22:54:00</u>		
Clock: <u>_____</u>	OBS Time OK?: [ <input checked="" type="checkbox"/> ]	TFOM: <u>4</u>	
Power: <u>AΦ22</u>	TAG Time OK?: [ <input checked="" type="checkbox"/> ]		
Backplane: <u>_____</u>	Wakeup Time: <u>2016:302:02:00:00</u>		
CF S/N (A): <u>248-617</u> Size: <u>16GB</u>	# of Channels: <u>4</u>	Sample Rate: <u>200</u>	
CF S/N (B): _____ Size: _____	CH-0 (L28X) Gain: <u>04</u>	CONFIG SELECTION ↓ <u>N</u>	
CF S/N (C): _____ Size: _____	CH-1 (L28Y) Gain: <u>04</u>		
Expected Data Size: <u>10.46GB</u>	CH-2 (L28Z) Gain: <u>04</u>		
<b>BATTERY INFORMATION</b>	CH-3 (HYD) Gain: <u>16</u>		
Main Power Type: Alkaline Pro Battery	Header Comment: <u>SS64</u>		
Quantity: <u>3xALK Pro BATT</u> Voltage: <u>9.77V</u>	Start Experiment: [ <input checked="" type="checkbox"/> ]	TAG OK?: [ <input checked="" type="checkbox"/> ]	
Clock Pack Type: Alkaline Energizer	Clock Battery OK: [ <input checked="" type="checkbox"/> ]	Dessicant: [ <input checked="" type="checkbox"/> ]	
Quantity: 2D Voltage: <u>3.26V</u>	PURGE 6"Hg: [ <input checked="" type="checkbox"/> ]	Seal Screw: [ <input checked="" type="checkbox"/> ]	
Estimated Duration: 60 days	<b>DEPLOYMENT INFORMATION</b>		
Date: <u>2016:301</u> By: <u>MR6</u>		<b>RECOVERY INFORMATION</b>	
Data Logger #: <u>SP-20</u>	Date: <u>335</u> By: <u>FA</u>		
Acoustics #: <u>85</u>	OBS Time TAG (1st):		
Frame: <u>F49</u>	<u>2016:335:14:53:00.3785429</u>		
Float: <u>M659</u>	OBS Time TAG (2nd):		
Radio: <u>NR58</u> On: [ <input checked="" type="checkbox"/> ]	<u>2016:335:14:54:00.3785504</u>		
Strobe: <u>NS32</u> On: [ <input checked="" type="checkbox"/> ]	OBS Time OK?: [ <input checked="" type="checkbox"/> ]	TFOM: <u>4</u>	
Geophone / Trillium <u>OBS10-6PG5</u>	Drift:		
Hydrophone / DPG <u>OBS10-HYD32</u>	<u>0.3785504</u>		
Deploy Time (GMT): <u>302:01:54</u>	Raw File Name:		
Acoustic Disabled [ <input checked="" type="checkbox"/> ]	<u>SS64.OBS</u>		
Relocation Survey (Y / NA) <u>(NA)</u>	REL LAT (Dec°): _____	REL LON (Dec°): _____	

NOTES:

revised 19 Aug 2016

Setup { A2D's ✓  
      { Sync + TAG ✓

★ F49 TIGHT (oxygen) TUBE



<b>LC4x4- ELECTRONICS CHECKLIST</b>		Cruise ID: MGL1610	Site ID: <u>SS67</u>
Instrument Type: SP 4x4		IRIS ID: 16-2, Network Code: XW	LAT (Dec°): <u>-20.48863</u>
<b>LAB CHECKOUT</b>		<b>DEPLOYMENT SETUP</b>	
Date: 20 Aug 2016 By: Sean		Date: <u>2016:301</u>	LON (Dec°): <u>-70.99122</u>
<b>LOGGER INFORMATION</b> <u>SP-61</u>		By: <u>EA</u>	Water Depth (M): <u>4063</u>
CPU: <u>0108067</u>		Acoustic Unit #: <u>31</u>	
Seascan: <u>S/N 831</u>		Software Version: <u>1.0.4K</u>	
A2D: <u>0108089</u> Jumpers Check: <input checked="" type="checkbox"/>		<b>Sync Time With GPS:</b>	
Clock: <u>                    </u>		<u>3X 2016:301:19:26:00</u>	
Power: <u>5107076</u>		OBS Time OK?: <input checked="" type="checkbox"/> TFOM: <u>4</u>	
Backplane: <u>                    </u>		TAG Time OK?: [ ]	
CF S/N (A): <u>2015-025</u> Size: <u>16 GB</u>		Wakeup Time: <u>2016:301:22:00:00</u>	
CF S/N (B):                      Size:		# of Channels: <u>4</u> Sample Rate: <u>200</u>	
CF S/N (C):                      Size:		CH-0 (L28X) Gain: <u>64</u>	
Expected Data Size: <u>10.46 GB</u>		CH-1 (L28Y) Gain: <u>64</u> CONFIG SELECTION ↓	
<b>BATTERY INFORMATION</b>		CH-2 (L28Z) Gain: <u>64</u> <u>√</u>	
Main Power Type: Alkaline Pro Battery		CH-3 (HYD) Gain: <u>16</u>	
Quantity: <u>3x ALK P. BATT</u> Voltage: <u>9.77V</u>		Header Comment: <u>SS67</u>	
Clock Pack Type: Alkaline Energizer		Start Experiment: <input checked="" type="checkbox"/> TAG OK?: <input checked="" type="checkbox"/>	
Quantity: 2D Voltage: <u>3.25V</u>		Clock Battery OK: <input checked="" type="checkbox"/> Dessicant: <input checked="" type="checkbox"/>	
Estimated Duration: 60 days		PURGE 6"Hg: <input checked="" type="checkbox"/> Seal Screw: <input checked="" type="checkbox"/>	
<b>DEPLOYMENT INFORMATION</b>		<b>RECOVERY INFORMATION</b>	
Date: <u>2016:301</u> By: <u>EA</u>		Date: <u>2016:335</u> By: <u>MRB</u>	
Data Logger #: <u>SP61</u>		<b>OBS Time TAG (1st):</b>	
Acoustics #: <u>31</u>		<u>2016:335:22:06:59.8025083</u>	
Frame: <u>F33</u>		<b>OBS Time TAG (2nd):</b>	
Float: <u>MG92</u>		<u>2016:335:22:07:59.8025083</u>	
Radio: <u>NR84</u> On: <input checked="" type="checkbox"/>		OBS Time OK?: <input checked="" type="checkbox"/> TFOM: <u>4</u>	
Strobe: <u>NS42</u> On: <input checked="" type="checkbox"/>		<b>Drift:</b>	
Geophone / Trillium		<u>-0.1974917</u>	
Hydrophone / DPG <u>OBS10-GP73</u>		Raw File Name:	
Deploy Time (GMT): <u>OBS10-HYD33</u>		<u>SS67.OBS</u>	
Acoustic Disabled <input checked="" type="checkbox"/>		REL LAT (Dec°):	
Relocation Survey (Y / NA)		REL LON (Dec°):	

NOTES:

Set-up { A2D's ✓  
 { Sync + Drift ✓

Deploy Time:  
 2016:301:20:21



<b>LC4x4- ELECTRONICS CHECKLIST</b>		Cruise ID: MGL1610	Site ID: <u>SS55</u>
Instrument Type: SP 4x4		IRIS ID: 16-2, Network Code: XW	LAT (Dec°): <u>-20.35981</u>
<b>LAB CHECKOUT</b>		<b>DEPLOYMENT SETUP</b>	
Date: 20 Aug 2016 By: Sean		Date: <u>2016:301</u>	LON (Dec°): <u>-71.00250</u>
<b>LOGGER INFORMATION</b> <u>SP73</u>		By: <u>EA</u>	Water Depth (M): <u>4261</u>
CPU: <u>0108032</u>		Acoustic Unit #: <u>88</u>	
Seascan: <u>S/N 792</u>		Software Version: <u>1.0.4 K</u>	
A2D: <u>0108078</u> Jumpers Check: <input checked="" type="checkbox"/>		<b>Sync Time With GPS:</b>	
Clock: <u>                    </u>		<u>3X 2016:301:16:32:00</u>	
Power: <u>5107044</u>		OBS Time OK?: <input checked="" type="checkbox"/> TFOM: <u>4</u>	
Backplane: <u>                    </u>		TAG Time OK?: <input checked="" type="checkbox"/>	
CF S/N (A): <u>2008-666</u> Size: <u>16GB</u>		Wakeup Time: <u>2016:301:19:00:00</u>	
CF S/N (B):                      Size:		# of Channels: <u>4</u> Sample Rate: <u>200</u>	
CF S/N (C):                      Size:		CH-0 (L28X) Gain: <u>64</u>	
Expected Data Size: <u>10.46GB</u>		CH-1 (L28Y) Gain: <u>64</u> CONFIG SELECTION ↓	
<b>BATTERY INFORMATION</b>		CH-2 (L28Z) Gain: <u>64</u> <u>N</u>	
Main Power Type: Alkaline Pro Battery		CH-3 (HYD) Gain: <u>16</u>	
Quantity: <u>40D</u> Voltage: <u>9.78V</u>		Header Comment: <u>SS55</u>	
Clock Pack Type: Alkaline Energizer		Start Experiment: <input checked="" type="checkbox"/> TAG OK?: <input checked="" type="checkbox"/>	
Quantity: 2D                      Voltage: <u>3.23V</u>		Clock Battery OK: <input checked="" type="checkbox"/> Dessicant: <input checked="" type="checkbox"/>	
Estimated Duration: 60 days		PURGE 6"Hg: [ ]                      Seal Screw: [ ]	
<b>DEPLOYMENT INFORMATION</b>		<b>RECOVERY INFORMATION</b>	
Date: <u>2016:301</u> By: <u>EA</u>		Date: <u>2016:336</u> By: <u>MRB</u>	
Data Logger #: <u>SP73</u>		<b>OBS Time TAG (1st):</b>	
Acoustics #: <u>88</u>		<u>2016:336:00:33:00.1347683</u>	
Frame: <u>F65</u>		<b>OBS Time TAG (2nd):</b>	
Float: <u>M6244</u>		<u>2016:336:00:34:00.1347731</u>	
Radio: <u>NR21</u> On: [ ]		OBS Time OK?: [ ] <u>No!</u> TFOM: <u>4</u>	
Strobe: <u>NS46</u> On: [ ]		<b>Drift:</b>	
Geophone / Trillium <u>0BS15-6P4</u>		<u>+ 0.1347731</u>	
Hydrophone / DPG <u>0BS10-44D4</u>		Raw File Name:	
Deploy Time (GMT): <u>2016:301:17:46:00</u>		<u>SS55.OBS</u>	
Acoustic Disabled <input checked="" type="checkbox"/>		REL LAT (Dec°):	
Relocation Survey (Y / <u>NA</u> )		REL LON (Dec°):	

**NOTES:**

Setup A2D's ✓  
Sync+Tag ✓

\* PPS ON  
Recovery

\* 'Real Time' 2016:336:00:36:00  
OBS Time 2016:335:04:52:54



<b>LC4x4- ELECTRONICS CHECKLIST</b>		Cruise ID: MGL1610	Site ID: <u>SS 59</u>
Instrument Type: SP 4x4		IRIS ID: 16-2, Network Code: XW	LAT (Dec°): <u>-20.32408</u>
<b>LAB CHECKOUT</b>		<b>DEPLOYMENT SETUP</b>	LON (Dec°): <u>-70.87930</u>
Date: 20 Aug 2016 By: Sean		Date: <u>2016: 301</u>	Water Depth (M): <u>3277</u>
<b>LOGGER INFORMATION</b> <u>SP-124</u>		By: <u>SEA</u>	Acoustic Unit #: <u>41</u>
CPU: <u>4708-016</u>		Software Version: <u>1.0.4K</u>	
Seascan: <u>S/N1149</u>		<b>Sync Time With GPS:</b>	
A2D: <u>4708-06</u> Jumpers Check: <input checked="" type="checkbox"/>		<u>3X 2016:301:16:08:00</u>	
Clock: <u>          </u>		OBS Time OK?: <input checked="" type="checkbox"/>	TFOM: <u>4</u>
Power: <u>4708-19</u>		TAG Time OK?: <input checked="" type="checkbox"/> <u>2016:301:16:09:00.000000</u>	
Backplane: <u>          </u>		Wakeup Time: <u>2016:301:19:00:00</u>	
CF S/N (A): <u>2008-693</u> Size: <u>16GB</u>		# of Channels: <u>4</u>	Sample Rate: <u>200</u>
CF S/N (B):                      Size:		CH-0 (L28X) Gain: <u>64</u>	CONFIG SELECTION ↓ <u>      </u>
CF S/N (C):                      Size:		CH-1 (L28Y) Gain: <u>64</u>	
Expected Data Size: <u>10.46GB</u>		CH-2 (L28Z) Gain: <u>64</u>	
<b>BATTERY INFORMATION</b>		CH-3 (HYD) Gain: <u>16</u>	
Main Power Type: Alkaline Pro Battery		Header Comment: <u>SS 59</u>	
Quantity: <u>3x Alk Pro Batt</u> Voltage: <u>9.77V</u>		Start Experiment: <input checked="" type="checkbox"/>	TAG OK?: <input checked="" type="checkbox"/>
Clock Pack Type: Alkaline Energizer		Clock Battery OK: <input checked="" type="checkbox"/>	Dessicant: <input checked="" type="checkbox"/>
Quantity: 2D Voltage: <u>3.23V</u>		PURGE 6"Hg: <input checked="" type="checkbox"/>	Seal Screw: <input checked="" type="checkbox"/>
Estimated Duration: 60 days		<b>RECOVERY INFORMATION</b>	
<b>DEPLOYMENT INFORMATION</b>		Date: <u>2016:336</u> By: <u>MRLG</u>	
Date: <u>2016:301</u> By: <u>SEA</u>		<b>OBS Time TAG (1st):</b>	
Data Logger #: <u>SP124</u>	<u>2016:336:02:52:59.8636754</u>		
Acoustics #: <u>41</u>	<b>OBS Time TAG (2nd):</b>		
Frame: <u>F54</u>	<u>2016:336:02:53:59.8636736</u>		
Float: <u>MB 27</u>	OBS Time OK?: <input checked="" type="checkbox"/>	TFOM: <u>4</u>	
Radio: <u>NR04</u> On: [ ]	<b>Drift:</b>		
Strobe: <u>NS 65</u> On: [ ]	<u>-0.1363264</u>		
Geophone / Trillium <u>OBS18-GP51</u>	Raw File Name: <u>SS 59.0B.D</u>		
Hydrophone / DPG <u>#400 2016</u>			
Deploy Time (GMT): <u>2016:301:16:51:00</u>			
Acoustic Disabled <input checked="" type="checkbox"/>			
Relocation Survey (Y / <input checked="" type="checkbox"/> NA)	REL LAT (Dec°):	REL LON (Dec°):	

## NOTES:

SEA's ✓  
SP Sync x TAG ✓



<b>LC4x4- ELECTRONICS CHECKLIST</b>		Cruise ID: MGL1610	Site ID: <u>SS 10</u>
Instrument Type: SP 4x4		IRIS ID: 16-2, Network Code: XW	LAT (Dec°): <u>-20.29416</u>
<b>LAB CHECKOUT</b>		<b>DEPLOYMENT SETUP</b>	
Date: 20 Aug 2016 By: Sean		Date: <u>2016:301</u>	LON (Dec°): <u>-70.73111</u>
<b>LOGGER INFORMATION</b> <u>SP17</u>		By: <u>TEA</u>	Water Depth (M): <u>2112</u>
CPU: <u>A017</u>		Acoustic Unit #: <u>123</u>	
Seascan: <u>SIN 467</u>		Software Version: <u>1.0.4 K</u>	
A2D: <u>4708-24</u> Jumpers Check: <input checked="" type="checkbox"/>		<b>Sync Time With GPS:</b>	
Clock: <u>                    </u>		<u>2X 2016:301:12:43:00</u>	
Power: <u>A028</u>		OBS Time OK?: <input checked="" type="checkbox"/> TFOM: <u>4</u>	
Backplane: <u>                    </u>		TAG Time OK?: <input checked="" type="checkbox"/> <u>AFT 3RD Sync</u>	
CF S/N (A): <u>2008-684</u> Size: <u>16GB</u>		Wakeup Time: <u>2016:301:15:00:00</u>	
CF S/N (B):                      Size:		# of Channels: <u>4</u> Sample Rate: <u>200</u>	
CF S/N (C):                      Size:		CH-0 (L28X) Gain: <u>64</u>	
Expected Data Size: <u>10.46GB</u>		CH-1 (L28Y) Gain: <u>64</u>	
<b>BATTERY INFORMATION</b>		CH-2 (L28Z) Gain: <u>64</u>	
Main Power Type: Alkaline Pro Battery		CH-3 (HYD) Gain: <u>16</u>	
Quantity: <u>3x ALK PRO BATT</u> Voltage: <u>9.70V</u>		Header Comment: <u>SS 10</u>	
Clock Pack Type: Alkaline Energizer		Start Experiment: <input checked="" type="checkbox"/> TAG OK?: <input checked="" type="checkbox"/>	
Quantity: 2D Voltage: <u>3.25V</u>		Clock Battery OK: <input checked="" type="checkbox"/> Dessicant: <input checked="" type="checkbox"/>	
Estimated Duration: 60 days		PURGE 6"Hg: <input checked="" type="checkbox"/> Seal Screw: <input checked="" type="checkbox"/>	
<b>DEPLOYMENT INFORMATION</b>		<b>RECOVERY INFORMATION</b>	
Date: <u>2016:301</u> By: <u>TEA</u>		Date: <u>2016:336</u> By: <u>MRB</u>	
Data Logger #: <u>SP17</u>		<b>OBS Time TAG (1st):</b>	
Acoustics #: <u>123</u>		<u>2016:336:04:46:59.7278034</u>	
Frame: <u>F57</u>		<b>OBS Time TAG (2nd):</b>	
Float: <u>M619</u>		<u>2016:336:04:47:59.7277998</u>	
Radio: <u>NS 39</u> On: [ ]		OBS Time OK?: <input checked="" type="checkbox"/> TFOM: <u>4</u>	
Strobe: <u>NS 44</u> On: [ ]		<b>Drift:</b>	
Geophone / Trillium <u>OBS15-GP9</u>		<u>-0.2722002</u>	
Hydrophone / DPG <u>OBS13-14D 304</u>		Raw File Name:	
Deploy Time (GMT): <u>2016:301:15:01:00</u>		<u>SS 10. OBS</u>	
Acoustic Disabled <input checked="" type="checkbox"/>		REL LAT (Dec°):	
Relocation Survey (Y / <input checked="" type="checkbox"/> NA)		REL LON (Dec°):	

NOTES:  
 setup SA2D's ✓  
 Sync + TAG ✓  
 The Seascan can was resoldered  
 during a setup

2ND SYNC NOT GREAT  
 3RD Sync: 2016:301:12:45:00  
 TAG = 2016:301:12:45:59.9999996  
 much better



<b>LC4x4- ELECTRONICS CHECKLIST</b>		Cruise ID: MGL1610	Site ID: <u>SS60</u>
Instrument Type: SP 4x4		IRIS ID: 16-2, Network Code: XW	LAT (Dec°): <u>-20.24992</u>
<b>LAB CHECKOUT</b>		<b>DEPLOYMENT SETUP</b>	
Date: 20 Aug 2016 By: Sean		Date: <u>2016:301</u>	LON (Dec°): <u>-70.57160</u>
<b>LOGGER INFORMATION</b> <u>SP38</u>		By: <u>EA</u>	Water Depth (M): <u>1071</u>
CPU: <u>A004</u>		Software Version: <u>1.08.4K</u>	
Seascan: <u>S/N 849</u>		<b>Sync Time With GPS:</b>	
A2D: <u>0108036</u> Jumpers Check: <input checked="" type="checkbox"/>		<u>2x 2016:301:11:20:00</u>	
Clock: <u>---</u>		OBS Time OK?: <input checked="" type="checkbox"/>	TFOM: <u>4</u>
Power: <u>A015</u>		TAG Time OK?: <input checked="" type="checkbox"/> <u>2016:301:11:20:59.9999946</u>	
Backplane: <u>---</u>		Wakeup Time: <u>2016:301:14:00:00</u>	
CF S/N (A): <u>2008-688</u> Size: <u>16 GB</u>	# of Channels: <u>4</u>	Sample Rate: <u>200</u>	
CF S/N (B): _____ Size: _____	CH-0 (L28X) Gain: <u>6Y</u>	CONFIG SELECTION ↓ <u>N</u>	
CF S/N (C): _____ Size: _____	CH-1 (L28Y) Gain: <u>6Y</u>		
Expected Data Size: <u>10.46 GB</u>	CH-2 (L28Z) Gain: <u>6Y</u>		
<b>BATTERY INFORMATION</b>	CH-3 (HYD) Gain: <u>1G</u>		
Main Power Type: Alkaline Pro Battery	Header Comment: <u>SS60</u>		
Quantity: <u>3-ACK P/B</u> Voltage: <u>9.77V</u>	Start Experiment: [ ] TAG OK?: <input checked="" type="checkbox"/>		
Clock Pack Type: Alkaline Energizer	Clock Battery OK: <input checked="" type="checkbox"/> Dessicant: <input checked="" type="checkbox"/>		
Quantity: 2D Voltage: <u>3.26V</u>	PURGE 6"Hg: <input checked="" type="checkbox"/> Seal Screw: <input checked="" type="checkbox"/>		
Estimated Duration: 60 days	<b>DEPLOYMENT INFORMATION</b>		
<b>DEPLOYMENT INFORMATION</b>		<b>RECOVERY INFORMATION</b>	
Date: <u>2016:301</u> By: <u>EA</u>	Date: <u>2016:336</u> By: <u>MRB</u>		
Data Logger #: <u>SP38</u>	<b>OBS Time TAG (1st):</b>		
Acoustics #: <u>111</u>	<u>2016:336:06:43:59.8168015</u>		
Frame: <u>F118</u>	<b>OBS Time TAG (2nd):</b>		
Float: <u>MG52</u>	<u>2016:336:06:44:59:8167972</u>		
Radio: <u>NR 20</u> On: [ ]	OBS Time OK?: <input checked="" type="checkbox"/> TFOM: <u>4</u>		
Strobe: <u>NS 68</u> On: [ ]	<b>Drift:</b>		
Geophone / Trillium <u>0BS13-GP410</u>	<u>-0.1832028</u>		
Hydrophone / DPG <u>0BS10-H4066</u>	Raw File Name:		
Deploy Time (GMT): <u>2016:301:13:43:09</u>	<u>SS60, OBS</u>		
Acoustic Disabled <input checked="" type="checkbox"/>	REL LAT (Dec°):	REL LON (Dec°):	
Relocation Survey (Y / NA)			

**NOTES:**

et {ADD'S ✓  
+ {Sync+TAG ✓



<b>LC4x4- ELECTRONICS CHECKLIST</b>		Cruise ID: MGL1610	Site ID: <u>SS58</u>
Instrument Type: SP 4x4		IRIS ID: 16-2, Network Code: XW	LAT (Dec°): <u>-28.06682</u>
<b>LAB CHECKOUT</b>		<b>DEPLOYMENT SETUP</b>	
Date: 20 Aug 2016 By: Sean		Date: <u>2016:381</u>	LON (Dec°): <u>-78.43642</u>
<b>LOGGER INFORMATION SP-85</b>		By: <u>SEA</u>	Water Depth (M): <u>1150</u>
CPU: <u>A005</u>		Acoustic Unit #: <u>67</u>	
Seascan: <u>SIN 1646</u>		Software Version: <u>1.0.4K</u>	
A2D: <u>09</u> Jumpers Check: <input checked="" type="checkbox"/>		<b>Sync Time With GPS:</b>	
Clock: <u>---</u>		<u>3X 2016:381:10:22:00</u>	
Power: <u>A009</u>		OBS Time OK?: <input checked="" type="checkbox"/>	TFOM: <u>4</u>
Backplane: <u>---</u>		TAG Time OK?: <input checked="" type="checkbox"/>	
CF S/N (A): <u>2008-682</u> Size: <u>16GB</u>		Wakeup Time: <u>2016:381:12:00:00</u>	
CF S/N (B): _____ Size: _____		# of Channels: <u>4</u>	Sample Rate: <u>2008</u>
CF S/N (C): _____ Size: _____		CH-0 (L28X) Gain: <u>6Y</u>	CONFIG SELECTION ↓ <u>√</u>
Expected Data Size: <u>10.46 GB</u>		CH-1 (L28Y) Gain: <u>6Y</u>	
<b>BATTERY INFORMATION</b>		CH-2 (L28Z) Gain: <u>6Y</u>	
Main Power Type: Alkaline Pro Battery		CH-3 (HYD) Gain: <u>6G</u>	
Quantity: <u>4</u> <del>2</del> <u>Pro Batt</u> Voltage: <u>9.76V</u>		Header Comment: <u>SS58</u>	
Clock Pack Type: Alkaline Energizer		Start Experiment: <input checked="" type="checkbox"/>	TAG OK?: <input checked="" type="checkbox"/>
Quantity: 2D Voltage: <u>3.24V</u>		Clock Battery OK: <input checked="" type="checkbox"/>	Dessicant: <input checked="" type="checkbox"/>
Estimated Duration: 60 days		PURGE 6"Hg: <input checked="" type="checkbox"/>	Seal Screw: <input checked="" type="checkbox"/>
<b>DEPLOYMENT INFORMATION</b>		<b>RECOVERY INFORMATION</b>	
Date: <u>2016:381</u> By: <u>SEA</u>		Date: <u>2016:366</u> By: <u>ML6</u>	
Data Logger #: <u>SP85</u>		<b>OBS Time TAG (1st):</b>	
Acoustics #: <u>67</u>		<u>2016:336:08:49:59.8053397</u>	
Frame: <u>F 39</u>		<b>OBS Time TAG (2nd):</b>	
Float: <u>MG54</u>		<u>2016:336:08:58:59.8053368</u>	
Radio: <u>NR 56</u> On: [ ]		OBS Time OK?: <input checked="" type="checkbox"/>	
Strobe: <u>NS 53</u> On: [ ]		TFOM: <u>4</u>	
Geophone / Trillium <u>08810 GP49</u>		<b>Drift:</b>	
Hydrophone / DPG <u>2000-0081</u>		<u>-0.1946632</u>	
Deploy Time (GMT): <u>2016:381:12:10:00</u>		Raw File Name:	
Acoustic Disabled <input checked="" type="checkbox"/>		<u>SS58.039</u>	
Relocation Survey (Y / <u>NA</u> )		REL LAT (Dec°):	REL LON (Dec°):

NOTES:  
 \* {ADD'S ✓  
 , {Sync+TAG ✓



<b>LC4x4- ELECTRONICS CHECKLIST</b>		Cruise ID: MGL1610	Site ID: <u>SS57</u>
Instrument Type: SP 4x4		IRIS ID: 16-2, Network Code: XW	LAT (Dec°): <u>-20.10275</u>
<b>LAB CHECKOUT</b>		<b>DEPLOYMENT SETUP</b>	
Date: 20 Aug 2016 By: Sean		Date: <u>2016:301</u>	LON (Dec°): <u>-78.58112</u>
<b>LOGGER INFORMATION</b> <u>SP71</u>		By: <u>EA</u>	Water Depth (M): <u>1179</u>
CPU: <u>0108052</u>		Acoustic Unit #: <u>60</u>	
Seascan: <u>SIN 828</u>		Software Version: <u>1.0.4K</u>	
A2D: <u>0108100</u> Jumpers Check: <input checked="" type="checkbox"/>		<b>Sync Time With GPS:</b>	
Clock: <u>                    </u>		<u>3X 2016:301:09:09:00</u>	
Power: <u>5107102</u>		OBS Time OK?: <input checked="" type="checkbox"/> TFOM: <u>4</u>	
Backplane: <u>                    </u>		TAG Time OK?: <input checked="" type="checkbox"/> <u>2016:301:09:09:59.9999998</u>	
CF S/N (A): <u>2015-026</u> Size: <u>16GB</u>		Wakeup Time: <u>2016:301:11:00:00</u>	
CF S/N (B):                      Size:		# of Channels: <u>4</u> Sample Rate: <u>200</u>	
CF S/N (C):                      Size:		CH-0 (L28X) Gain: <u>64</u>	
Expected Data Size: <u>10.46GB</u>		CH-1 (L28Y) Gain: <u>64</u> CONFIG SELECTION ↓	
<b>BATTERY INFORMATION</b>		CH-2 (L28Z) Gain: <u>64</u> <u>N</u>	
Main Power Type: Alkaline Pro Battery		CH-3 (HYD) Gain: <u>16</u>	
Quantity: <del>40E</del> <u>3xACK Pro</u> <u>Batt</u> Voltage: <u>9.77V</u>		Header Comment: <u>SS57</u>	
Clock Pack Type: Alkaline Energizer		Start Experiment: <input checked="" type="checkbox"/> TAG OK?: <input checked="" type="checkbox"/>	
Quantity: 2D      Voltage: <u>3.25V</u>		Clock Battery OK: <input checked="" type="checkbox"/> Dessicant: <input checked="" type="checkbox"/>	
Estimated Duration: 60 days		PURGE 6"Hg: <input checked="" type="checkbox"/> Seal Screw: <input checked="" type="checkbox"/>	
<b>DEPLOYMENT INFORMATION</b>		<b>RECOVERY INFORMATION</b>	
Date: <u>2016:301</u> By: <u>EA</u>		Date: <u>2016:306</u> By: <u>EA</u>	
Data Logger #: <u>SP71</u>		<b>OBS Time TAG (1st):</b>	
Acoustics #: <u>60</u>		<u>2016:336:10:15:00.1215517</u>	
Frame: <u>F68</u>		<b>OBS Time TAG (2nd):</b>	
Float: <u>MB 4</u>		<u>2016:336:10:16:00.1215551</u>	
Radio: <u>NR 15</u> On: [ ]		OBS Time OK?: <input checked="" type="checkbox"/> TFOM: <u>4</u>	
Strobe: <u>NS 3</u> On: [ ]		<b>Drift:</b>	
Geophone / Trillium <u>0BS10 GP32</u>		<u>0.1215551</u>	
Hydrophone / DPG <u>0BS10 HYD 64</u>		Raw File Name:	
Deploy Time (GMT): <u>2016:301:10:55:00</u>		<u>SS57.035</u>	
Acoustic Disabled <input checked="" type="checkbox"/>			
Relocation Survey (Y / NA)		REL LAT (Dec°):	REL LON (Dec°):

NOTES:

ADD'S ✓  
Sync+TAG ✓



LC4x4- ELECTRONICS CHECKLIST		Cruise ID: MGL1610	Site ID: <u>SS11</u>
Instrument Type: SP 4x4		IRIS ID: 16-2, Network Code: XW	LAT (Dec°): <u>-20.15259</u>
<b>LAB CHECKOUT</b>		<b>DEPLOYMENT SETUP</b>	
Date: 20 Aug 2016 By: Sean		Date: <u>2016:301</u>	LON (Dec°): <u>-70.7492</u>
<b>LOGGER INFORMATION</b> <u>SP93</u>		By: <u>MRL</u>	Water Depth (M): <u>2100</u>
CPU: <u>A019</u>		Software Version: <u>104K</u>	Acoustic Unit #: <u>2</u>
Seascan: <u>S/N 465</u>		<b>Sync Time With GPS:</b>	
A2D: <u>0108191</u> Jumpers Check: [ <input checked="" type="checkbox"/> ]		<u>2016:301:08:14.00</u>	
Clock: <u>5107009</u>		OBS Time OK?: [ <input checked="" type="checkbox"/> ]	TFOM: <u>4</u>
Power: <u>5107009</u>		TAG Time OK?: [ <input checked="" type="checkbox"/> ]	
Backplane: _____		Wakeup Time: <u>2016:301:14:00:00</u>	
CF S/N (A): <u>2015-023</u> Size: <u>16GB</u>		# of Channels: <u>4</u>	Sample Rate: <u>200</u>
CF S/N (B): _____ Size: _____		CH-0 (L28X) Gain: <u>64</u>	CONFIG SELECTION ↓ <u>N</u>
CF S/N (C): _____ Size: _____		CH-1 (L28Y) Gain: <u>64</u>	
Expected Data Size: <u>10.46GB</u>		CH-2 (L28Z) Gain: <u>64</u>	
<b>BATTERY INFORMATION</b>		CH-3 (HYD) Gain: <u>16</u>	
Main Power Type: Alkaline Pro Battery		Header Comment: <u>SS11</u>	
Quantity: <u>3</u> Voltage: <u>9.77V</u>		Start Experiment: [ <input checked="" type="checkbox"/> ]	
Clock Pack Type: Alkaline Energizer		TAG OK?: [ <input checked="" type="checkbox"/> ]	
Quantity: 2D Voltage: <u>3.25V</u>		Clock Battery OK: [ <input checked="" type="checkbox"/> ]	
Estimated Duration: 60 days		Dessicant: [ <input checked="" type="checkbox"/> ]	
		PURGE 6"Hg: [ <input checked="" type="checkbox"/> ]	
		Seal Screw: [ <input checked="" type="checkbox"/> ]	
<b>DEPLOYMENT INFORMATION</b>		<b>RECOVERY INFORMATION</b>	
Date: <u>2016:301</u> By: <u>MG</u>		Date: <u>2016:336</u> By: <u>TEA</u>	
Data Logger #: <u>SP93</u>		<b>OBS Time TAG (1st):</b>	
Acoustics #: <u>2</u>		<u>2016:336:12:21:59.8564738</u>	
Frame: <u>F37</u>		<b>OBS Time TAG (2nd):</b>	
Float: <u>MG 99</u>		<u>2016:336:12:22:59.8564737</u>	
Radio: <u>NR 47</u> On: [ ]		OBS Time OK?: [ <input checked="" type="checkbox"/> ]	
Strobe: <u>NS 13</u> On: [ ]		TFOM: <u>4</u>	
Geophone / Trillium <u>08818 GP42</u>		<b>Drift:</b>	
Hydrophone / DPG <u>08818 Hyd 49</u>		<u>-0.1435263</u>	
Deploy Time (GMT): <u>2016:301:09:50:00</u>		Raw File Name:	
Acoustic Disabled [ <input checked="" type="checkbox"/> ]		<u>SS11.0B3</u>	
Relocation Survey (Y / NA)		REL LAT (Dec°):	REL LON (Dec°):

## NOTES:

SP93 ✓  
Sync+TAG ✓



BUG- ELECTRONICS CHECKLIST		Cruise ID: MGL1610	Site ID: SS51
Instrument Type: (SP) LP ABA FLIP		Mission File: Trehu_deploy.txt	LAT (Dec°): <del>-20.24911</del>
LAB CHECKOUT		IRIS ID: 16-2, Network Code: XW	LON (Dec°): <del>-71.02194</del>
Date: 8/23/16	By: Sean McPeak	DEPLOYMENT SETUP	
LOGGER INFORMATION		YYYY:JD 2016:299	By: EA
Logger Endcap # SP201		Power Relays:	(V) Voltage: 9.22
CF Serial Number: 2008-506		Main (QM1) [✓] Trillium (QS1) [✓]	Temp: 70.3
CF Size: 16GB		Clock (QC1) [✓] Analog (QA1) [✓]	Set Header: SS51
Number A2D files: 4		Erase housekeeping data (he1234) [✓]	
Expected Data Size: 106B -MSEED		Mount CF (FV): [✓]	A2D Dat Files Found: 4
Logger Module # 14008		Current LBA static (L)? [✓] 1079989 {use multiple (L) commands}	
BATTERY INFORMATION		Enable FPGA Reset Detect (W4,1): [✓]	
Main Power Type: Alkaline Pro Battery 9.77V		Save Mission to EEPROM (ZL): [✓]	
Quantity: 3xProBat ALK Date checked: 9/18/16		Display Mission (X20000): [✓]	Verify Mission matches expected: [✓]
Clock Pack Type: Alkaline Energizer 3.23V		Initialize Sample Rate and Gain (e.g. a50,1,1,1,64): [✓]	
Quantity: 2D Energizer Date checked: 9/18/16		Sample Rate: 200	# days A2D recording: 55.3
Anticipated Duration: 60 days		Gains: CH1 64 CH2 64 CH3 64 CH4 16	
Notes:		A2D Check {1st two char.}: (M1): ✓ (M2): ✓ (M3): ✓ (M4): ✓	
		Values changing on all channels @ appropriate rate? [✓]	
		Clock Sync Time (U): 2016:299:14:48:08	TFOM: 4
DEPLOYMENT INFORMATION		SYS Minutes: 0	CLK Minutes: 0
Date: 2016:299	By: EA	Diff by ~1: [✓]	
Data Logger: BS16-002		System TAG (PS): 2016:299:14:49:00.00000216	
Acoustics: 34		Clock TAG (PC): 2016:299:14:49:59.9999998	
Frame: F113		Type "D" To be sure clocks zero out: [✓] AFT Sync	
Float: M653		*** Start Mission (ZR): [✓] ***	
Radio: NR88		RECOVERY INFORMATION	
Strobe: NS52		YYYY:JD 2016:336	By: EA
Geophone: OBS10-6P14		(V) Voltage: 7.53	Temp: 61.0F
Hydrophone (/DPG): OBS10-H40 34		FPGA Not Reset (R0): [✓]	{If reset DO NOT Click End Logging}
Deploy Time: 2016:300:02:35		LBA Incrementing by # chans (L): [✓]	{use multiple (L) commands}
Acoustic Disabled [✓]		End Logging (T1234): [✓]	
Relocation Survey [Y/N/NA]		Last Sector: 21412134	# Sectors: 20332226
REL LAT Dec°:		Save Time TAG (u): 2016:336:16:31:00.075512	TFOM: 4
REL LON Dec°:		** System TAG (PS): 2016:336:16:30:00.0755431	
		** Drift (based on 'PS' command results): 0.0755431	
		Clock TAG (PC): 2016:336:16:33:00.0755199	
		Save Housekeeping to CF (HS): [✓]	

NOTES:

Setup A2D Gain Verification  
 (64,64,64,16 ✓)

LAT = -20.24973  
 LON = -71.02197  
 PS = 2016:336:16:32:00.0755431  
 PC = 2016:336:16:33:00.0755199



BUG- ELECTRONICS CHECKLIST		Cruise ID: MGL1610	Site ID: 5548 ✓
Instrument Type: (SP) LP ABA FLIP		Mission File: Trehu_deploy.txt	LAT (Dec°): -19.93616
LAB CHECKOUT		IRIS ID: 16-2, Network Code: XW	LON (Dec°): -70.92642
Date: 8/23/16	By: Sean McPeak	DEPLOYMENT SETUP	
LOGGER INFORMATION		YYYY:JD 2016:300 By: MR6	Water Depth (M): 2689
Logger Endcap # SP203		Power Relays:	(V) Voltage: 9.23
CF Serial Number: 2015-008		Main (QM1) [✓] Trillium (QS1) [✓]	Temp: 71.6
CF Size: 32GB		Clock (QC1) [✓] Analog (QA1) [✓]	Set Header: 5548
Number A2D files: 5		Erase housekeeping data (he1234) [✓]	
Expected Data Size: 10GB-mSEED		Mount CF (FV): [✓]	A2D Dat Files Found: 5
Logger Module # 13024		Current LBA static (L)?: [✓] 1079203 { use multiple (L) commands }	
BATTERY INFORMATION		Enable FPGA Reset Detect (W4,1): [✓]	
Main Power Type: Alkaline Pro Battery 9.77V		Save Mission to EEPROM (ZL): [✓]	
Quantity: 3xProBat ALK Date checked: 8/27/16		Display Mission (X20000): [✓]	Verify Mission matches expected: [✓]
Clock Pack Type: Alkaline Energizer 3.23V		Initialize Sample Rate and Gain (e.g. a50,1,1,1,64): [✓]	
Quantity: 2D Energizer Date checked: 8/27/16		Sample Rate: 200	# days A2D recording: 60.9
Anticipated Duration: 60 days		Gains: CH1 64 CH2 64 CH3 64 CH4 16	
Notes:		A2D Check {1st two char.}: (M1): [✓] (M2): [✓] (M3): [✓] (M4): [✓]	
		Values changing on all channels @ appropriate rate? [✓]	
		Clock Sync Time (U): 2016:300:07:30:00	TFOM: 4
DEPLOYMENT INFORMATION		SYS Minutes: 0	CLK Minutes: 0
Date: 2016:300	By:	Diff by ~1: [✓]	
Data Logger: B516-004		System TAG (PS): 2016:300:07:30:59.9999996	
Acoustics: 102		Clock TAG (PC): 2016:300:07:31:59.9999995	
Frame: FSZ		Type "D" To be sure clocks zero out: [✓]	
Float: MG 247		*** Start Mission (ZR): [✓] ***	
Radio: NR 17		RECOVERY INFORMATION	
Strobe: NS 46		YYYY:JD 2016:336	By: MR6
Geophone: OBS 10 GP7		(V) Voltage: 7.38	Temp: 67.3
Hydrophone (/DPG): OBS 10 SP		FPGA Not Reset (R0): [✓]	{ If reset DO NOT Click End Logging }
Deploy Time: 2016:300:10:11:00		LBA Incrementing by # chans (L): [✓]	{ use multiple (L) commands }
Acoustic Disabled [✓]		End Logging (T1234): [✓]	
Relocation Survey [Y/N/NA]		Last Sector: 21148692	# Sectors: 20069490
REL LAT Dec°:		Save Time TAG (u): 2016:336:16:33:00.0755199	TFOM: 4
REL LON Dec°:		** System TAG (PS): 2016:336:16:43:59.9649804	
		** Drift {based on 'PS' command results}: -0.0350196	
		Clock TAG (PC): 2016:336:21:46:59.9649838	
		Save Housekeeping to CF (HS): [✓]	

NOTES:

A2D Gain Verification  
64, 64, 64, 16 ✓

→ 2016:336:21:42:00



BUG- ELECTRONICS CHECKLIST		Cruise ID: MGL1610	Site ID: 5552
Instrument Type: (SP) LP ABA FLIP		Mission File: Trehu_deploy.txt	LAT (Dec°): -28.07019
LAB CHECKOUT		IRIS ID: 16-2, Network Code: XW	LON (Dec°): -70.91287
Date: 8/23/16	By: Sean McPeak	DEPLOYMENT SETUP	
LOGGER INFORMATION		YYYY:JD 2016:300 By:MRB	Water Depth (M): 2729
Logger Endcap # 13017		Power Relays:	Acoustic Unit #: 47
CF Serial Number: 2448-638		Main (QM1) <input checked="" type="checkbox"/> Trillium (QS1) <input checked="" type="checkbox"/>	(V) Voltage: 9.39
CF Size: 16GB		Clock (QC1) <input checked="" type="checkbox"/> Analog (QA1) <input checked="" type="checkbox"/>	Temp: 72.5
Number A2D files: 4		Erase housekeeping data (he1234) <input checked="" type="checkbox"/>	Set Header: 5552
Expected Data Size: 10GB-mSEED		Mount CF (FV): <input checked="" type="checkbox"/>	A2D Dat Files Found: 4
Logger Module # 13012		Current LBA static (L)?: <input checked="" type="checkbox"/> 1079909 { use multiple (L) commands }	
BATTERY INFORMATION		Enable FPGA Reset Detect (W4,1): <input checked="" type="checkbox"/>	
Main Power Type: Alkaline Pro Battery		Save Mission to EEPROM (ZL): <input checked="" type="checkbox"/>	
Quantity: 3xProBat ALK Date checked: 8/24/16		Display Mission (X20000): <input checked="" type="checkbox"/>	Verify Mission matches expected: <input checked="" type="checkbox"/>
Clock Pack Type: Alkaline Energizer 8/24/16		Initialize Sample Rate and Gain (e.g. a50,1,1,1,64): [ ]	
Quantity: 2D Energizer Date checked:		Sample Rate: 200	# days A2D recording: 55.3
Anticipated Duration: 60 days		Gains: CH1 64 CH2 64 CH3 64 CH4 16	
Notes:		A2D Check {1st two char.}: (M1): <input checked="" type="checkbox"/> (M2): <input checked="" type="checkbox"/> (M3): <input checked="" type="checkbox"/> (M4): <input checked="" type="checkbox"/>	
		Values changing on all channels @ appropriate rate? <input checked="" type="checkbox"/>	
		Clock Sync Time (U): 2016:300:05:28:00	TFOM: 4
DEPLOYMENT INFORMATION		SYS Minutes: 2	CLK Minutes: 2
Date: 2016:300	By: MRB	Diff by ~1: <input checked="" type="checkbox"/>	
Data Logger: BS16-017		System TAG (PS): 2016:300:05:29:00.0000031	
Acoustics: 47		Clock TAG (PC): 2016:300:05:29:59.9999987	
Frame: F24		Type "D" To be sure clocks zero out: <input checked="" type="checkbox"/>	
Float: M634		*** Start Mission (ZR): <input checked="" type="checkbox"/> ***	
Radio: NR77		RECOVERY INFORMATION	YYYY:JD 2016:336 By:MRB
Strobe: NS86		(V) Voltage: 7.67	Temp: 60.2
Geophone: OBS10-6P03		FPGA Not Reset (R0): <input checked="" type="checkbox"/>	{ If reset DO NOT Click End Logging }
Hydrophone (/DPG): OBS10-HYD067		LBA Incrementing by # chans (L): <input checked="" type="checkbox"/>	{ use multiple (L) commands }
Deploy Time: 2016:300:09:15:00		End Logging (T1234): <input checked="" type="checkbox"/>	
Acoustic Disabled <input checked="" type="checkbox"/>		Last Sector: 21240262	# Sectors: 20160354
		Save Time TAG (u): 2016:336:23:38:00	TFOM: 4
		** System TAG (PS): 2016:336:23:39:00.0567761	
		** Drift (based on 'PS' command results): 0.0567761	
Relocation Survey [Y/N/NA]		Clock TAG (PC): 2016:336:23:40:00.0567874	
REL LAT Dec°:		Save Housekeeping to CF (HS): <input checked="" type="checkbox"/>	
REL LON Dec°:			

NOTES:

Set { A2D Gain Verification }  
 up { 64, 64, 64, 16 } ✓



<b>LC4x4- ELECTRONICS CHECKLIST</b>		Cruise ID: MGL1610	Site ID: <u>SS12</u>
Instrument Type: SP 4x4		IRIS ID: 16-2, Network Code: XW	LAT (Dec°): <del>-28.0</del> <u>1934</u>
<b>LAB CHECKOUT</b>		<b>DEPLOYMENT SETUP</b>	
Date: 20 Aug 2016 By: Sean		Date: <u>2016: 301</u>	LON (Dec°): <u>-70.7692</u>
<b>LOGGER INFORMATION</b> <u>SP-67</u>		By: <u>MRB</u>	Water Depth (M): <u>1383</u>
CPU: <u>Φ108100</u>		Software Version: <u>1.64K</u>	Acoustic Unit #: <u>30</u>
Seascan: <u>SIN 878</u>		<b>Sync Time With GPS:</b>	
A2D <u>Φ108053</u> Jumpers Check: <input checked="" type="checkbox"/>		<u>2016: 301: 07:08:00</u>	
Clock: <u>                    </u>		OBS Time OK?: <input checked="" type="checkbox"/>	TFOM: <u>4</u>
Power: <u>5107023</u>		TAG Time OK?: <input checked="" type="checkbox"/>	
Backplane: <u>                    </u>		Wakeup Time: <u>2016: 301: 13:00:00</u>	
CF S/N (A): <u>2015-028</u> Size: <u>16 GB</u>		# of Channels: <u>4</u>	Sample Rate: <u>200</u>
CF S/N (B):                      Size:		CH-0 (L28X) Gain: <u>64</u>	<b>CONFIG SELECTION ↓</b> <u>N</u>
CF S/N (C):                      Size:		CH-1 (L28Y) Gain: <u>64</u>	
Expected Data Size: <u>10.46 GB</u>		CH-2 (L28Z) Gain: <u>64</u>	
<b>BATTERY INFORMATION</b>		CH-3 (HYD) Gain: <u>16</u>	
Main Power Type: Alkaline Pro Battery		Header Comment: <u>SS12</u>	
Quantity: <del>400</del> <u>3x ALK Pro BATT</u> Voltage: <u>9.77V</u>		Start Experiment: <input checked="" type="checkbox"/>	TAG OK?: <input checked="" type="checkbox"/>
Clock Pack Type: Alkaline Energizer		Clock Battery OK: <input checked="" type="checkbox"/>	Dessicant: <input checked="" type="checkbox"/>
Quantity: 2D                      Voltage: <u>3.25V</u>		PURGE 6"Hg: <input checked="" type="checkbox"/>	Seal Screw: <input checked="" type="checkbox"/>
Estimated Duration: 60 days			
<b>DEPLOYMENT INFORMATION</b>		<b>RECOVERY INFORMATION</b>	
Date: <u>2016: 301</u> By: <u>MRB</u>		Date: <u>2016: 337</u> By: <u>MRB</u>	
Data Logger #: <u>67</u>		<b>OBS Time TAG (1st):</b>	
Acoustics #: <u>30</u>		<u>2016: 337: 01:46:00.0354987</u>	
Frame: <u>F107</u>		<b>OBS Time TAG (2nd):</b>	
Float: <u>M644</u>		<u>2016: 337: 01:47:00.0354994</u>	
Radio: <u>NR44</u> On: [ ]		OBS Time OK?: <input checked="" type="checkbox"/>	TFOM: <u>4</u>
Strobe: <u>NS44</u> On: [ ]		<b>Drift:</b> <u>* 0.0354994</u>	
Geophone / Trillium <u>0BS10-6740</u>		Raw File Name:	
Hydrophone / DPG <u>0BS10-114141</u>			
Deploy Time (GMT): <u>2016: 301: 08:58:00</u>			
Acoustic Disabled <input checked="" type="checkbox"/>			
Relocation Survey (Y / <u>NA</u> )		REL LAT (Dec°):	REL LON (Dec°):

NOTES:

SPAD ✓  
SYNCTAG ✓



<b>LC4x4- ELECTRONICS CHECKLIST</b>		Cruise ID: MGL1610	Site ID: <u>SS53</u>
Instrument Type: SP 4x4		IRIS ID: 16-2, Network Code: XW	LAT (Dec°): <u>19.96060</u>
<b>LAB CHECKOUT</b>		<b>DEPLOYMENT SETUP</b>	LON (Dec°): <u>-70.6012</u>
Date: 20 Aug 2016 By: Sean		Date: <u>2016.301</u>	Water Depth (M): <u>1236</u>
<b>LOGGER INFORMATION</b> <u>SP-95</u>		By: <u>MRB</u>	Acoustic Unit #: <u>97</u>
CPU: <u>0108098</u>		Software Version: <u>1.045</u>	
Seascan: <u>S/N 1950</u>		<b>Sync Time With GPS:</b>	
A2D: <u>A018</u> Jumpers Check: [ <input checked="" type="checkbox"/> ]		<u>2016.301.05:55:00</u>	
Clock: _____		OBS Time OK?: [ <input checked="" type="checkbox"/> ]	TFOM: <u>4</u>
Power: <u>5107085</u>		TAG Time OK?: [ <input checked="" type="checkbox"/> ]	
Backplane: _____		Wakeup Time: <u>2016.301.11:00:00</u>	
CF S/N (A): <u>2008-550</u> Size: <u>16GB</u>	# of Channels: <u>4</u>	Sample Rate: <u>200</u>	
CF S/N (B): _____ Size: _____	CH-0 (L28X) Gain: <u>64</u>	<b>CONFIG SELECTION ↓</b> <u>N</u>	
CF S/N (C): _____ Size: _____	CH-1 (L28Y) Gain: <u>64</u>		
Expected Data Size: <u>10.46GB</u>	CH-2 (L28Z) Gain: <u>64</u>		
<b>BATTERY INFORMATION</b>	CH-3 (HYD) Gain: <u>16</u>		
Main Power Type: Alkaline Pro Battery	Header Comment: <u>SS53</u>		
Quantity: <u>3xALK Pro Batt</u> Voltage: <u>9.76V</u>	Start Experiment: [ <input checked="" type="checkbox"/> ]	TAG OK?: [ <input checked="" type="checkbox"/> ]	
Clock Pack Type: Alkaline Energizer	Clock Battery OK: [ <input checked="" type="checkbox"/> ]	Dessicant: [ <input checked="" type="checkbox"/> ]	
Quantity: 2D Voltage: <u>3.26V</u>	PURGE 6"Hg: [ <input checked="" type="checkbox"/> ]	Seal Screw: [ <input checked="" type="checkbox"/> ]	
Estimated Duration: 60 days			
<b>DEPLOYMENT INFORMATION</b>	<b>RECOVERY INFORMATION</b>		
Date: <u>2016.301</u> By: <u>MRB</u>	Date: <u>2016.337</u> By: <u>MRB</u>		
Data Logger #: <u>SP95</u>	<b>OBS Time TAG (1st):</b>		
Acoustics #: <u>97</u>	<u>2016.337.03:44:00.0313938</u>		
Frame: <u>F105</u>	<b>OBS Time TAG (2nd):</b>		
Float: <u>m60.1</u>	<u>2016.337.03:45:00.0313946</u>		
Radio: <u>NR14</u> On: [ ]	OBS Time OK?: [ <input checked="" type="checkbox"/> ]	TFOM: <u>4</u>	
Strobe: <u>NS72</u> On: [ ]	<b>Drift:</b>		
Geophone / Trillium <u>0BS10-6P70</u>	<u>+ 0.0313946</u>		
Hydrophone / DPG <u>0BS10-H1D043</u>	Raw File Name:		
Deploy Time (GMT): <u>2016.301.07:45</u>			
Acoustic Disabled [ <input checked="" type="checkbox"/> ]			
Relocation Survey (Y / <u>NA</u> )	REL LAT (Dec°):	REL LON (Dec°):	

**NOTES:**

Setup { A2D's ✓  
          { Sync + TAG ✓

LAT: -19.96063  
LON: -70.60125



<b>LC4x4- ELECTRONICS CHECKLIST</b>		Cruise ID: MGL1610	Site ID: <u>SS54</u>
Instrument Type: SP 4x4		IRIS ID: 16-2, Network Code: XW	LAT (Dec°): <u>-19.91425</u>
<b>LAB CHECKOUT</b>		<b>DEPLOYMENT SETUP</b>	
Date: 20 Aug 2016 By: Sean		Date: <u>2016:301</u>	LON (Dec°): <u>-70.46923</u>
<b>LOGGER INFORMATION</b> <u>SP-92</u>		By: <u>MRB</u>	Water Depth (M): <u>1177</u>
CPU: <u>A001</u>	Software Version: <u>1.04K</u>		
Seascan: <u>SIN 447</u>	<b>Sync Time With GPS:</b>		
A2D: <u>0108008</u> Jumpers Check: [ <input checked="" type="checkbox"/> ]	<u>2016:301:04:50:00</u>		
Clock: <u>                    </u>	OBS Time OK?: [ <input checked="" type="checkbox"/> ]	TFOM: <u>4</u>	
Power: <u>5107016</u>	TAG Time OK?: [ <input checked="" type="checkbox"/> ]		
Backplane: <u>                    </u>	Wakeup Time: <u>2016:301:09:00:00</u>		
CF S/N (A): <u>2008-503</u> Size: <u>16GB</u>	# of Channels: <u>4</u>	Sample Rate: <u>200</u>	
CF S/N (B):                      Size:	CH-0 (L28X) Gain: <u>64</u>	<b>CONFIG SELECTION ↓</b> <u>N</u>	
CF S/N (C):                      Size:	CH-1 (L28Y) Gain: <u>64</u>		
Expected Data Size: <u>10.46GB</u>	CH-2 (L28Z) Gain: <u>64</u>		
<b>BATTERY INFORMATION</b>	CH-3 (HYD) Gain: <u>16</u>		
Main Power Type: Alkaline Pro Battery	Header Comment: <u>SS54</u>		
Quantity: <u>3xALK</u> Voltage: <u>9.77V</u>	Start Experiment: [ <input checked="" type="checkbox"/> ]		
Clock Pack Type: Alkaline Energizer	TAG OK?: [ <input checked="" type="checkbox"/> ]		
Quantity: 2D Voltage: <u>3.25V</u>	Clock Battery OK: [ <input checked="" type="checkbox"/> ]		
Estimated Duration: 60 days	PURGE 6"Hg: [ <input checked="" type="checkbox"/> ]		
<b>DEPLOYMENT INFORMATION</b>		<b>RECOVERY INFORMATION</b>	
Date: <u>2016:301</u> By: <u>MRB</u>	Date:	By:	
Data Logger #: <u>SP92</u>	<b>OBS Time TAG (1st):</b>		
Acoustics #: <u>01</u>	<u>2016:337:06:10:59.9436662</u>		
Frame: <u>F43</u>	<b>OBS Time TAG (2nd):</b>		
Float: <u>M694</u>	<u>2016:337:06:11:59.9436650</u>		
Radio: <u>NR66</u> On: [ <input checked="" type="checkbox"/> ]	OBS Time OK?: [ <input checked="" type="checkbox"/> ]		
Strobe: <u>NS21</u> On: [ <input checked="" type="checkbox"/> ]	TFOM: <u>4</u>		
Geophone / Trillium <u>OBS10-6P72</u>	<b>Drift:</b>		
Hydrophone / DPG <u>OBS10-H4D39</u>	<u>-0.0563350</u>		
Deploy Time (GMT): <u>2016:301:06:43</u>	Raw File Name:		
Acoustic Disabled [ <input checked="" type="checkbox"/> ]			
Relocation Survey (Y / NA)	REL LAT (Dec°):	REL LON (Dec°):	

st  
up { A2D's ✓  
      { Sync+TAG ✓

★ New  
   sucker  
   port



<b>LC4x4- ELECTRONICS CHECKLIST</b>		Cruise ID: MGL1610	Site ID: <u>SS50</u>
Instrument Type: SP 4x4		IRIS ID: 16-2, Network Code: XW	LAT (Dec°): <u>-19.77008</u>
<b>LAB CHECKOUT</b>		<b>DEPLOYMENT SETUP</b>	LON (Dec°): <u>-70.50148</u>
Date: 20 Aug 2016 By: Sean		Date: <u>2016:300</u>	Water Depth (M): <u>998m</u>
<b>LOGGER INFORMATION</b> <u>SP-126</u>		By: <u>MRB</u>	Acoustic Unit #: <u>146</u>
CPU: <u>4708-017</u>		Software Version: <u>1.04K</u>	
Seascan: <u>S/N 100</u>		<b>Sync Time With GPS:</b>	
A2D: <u>4708-25</u> Jumpers Check: <input checked="" type="checkbox"/>		<u>2016:300:22:19:00</u>	
Clock: <u>                    </u>		OBS Time OK?: <input checked="" type="checkbox"/>	TFOM: <u>4</u>
Power: <u>4708-16</u>		TAG Time OK?: <input checked="" type="checkbox"/>	
Backplane: <u>                    </u>		Wakeup Time: <u>2016:301:05:00:00</u>	
CF S/N (A): <u>2008-658</u> Size: <u>16GB</u>	# of Channels: <u>4</u>	Sample Rate: <u>200</u>	
CF S/N (B):                      Size:	CH-0 (L28X) Gain: <u>64</u>	<b>CONFIG SELECTION</b> ↓  <u>N</u>	
CF S/N (C):                      Size:	CH-1 (L28Y) Gain: <u>64</u>		
Expected Data Size: <u>10.46GB</u>	CH-2 (L28Z) Gain: <u>64</u>		
<b>BATTERY INFORMATION</b>	CH-3 (HYD) Gain: <u>16</u>		
Main Power Type: Alkaline Pro Battery	Header Comment: <u>SS50</u>		
Quantity: <u>3 ALK</u> <del>40D</del> <u>Pa-Batt</u> Voltage: <u>9.77V</u>	Start Experiment: <input checked="" type="checkbox"/>	TAG OK?: <input checked="" type="checkbox"/>	
Clock Pack Type: Alkaline Energizer	Clock Battery OK: <input checked="" type="checkbox"/>	Dessicant: <input checked="" type="checkbox"/>	
Quantity: 2D Voltage: <u>3.25V</u>	PURGE 6"Hg: <input checked="" type="checkbox"/>	Seal Screw: <input checked="" type="checkbox"/>	
Estimated Duration: 60 days			
<b>DEPLOYMENT INFORMATION</b>	<b>RECOVERY INFORMATION</b>		
Date: <u>2016:301</u> By: <u>MRB</u>	Date: <u>2016:337</u> By: <u>MRB</u>		
Data Logger #: <u>SP126</u>	<b>OBS Time TAG (1st):</b>		
Acoustics #: <u>146</u>	<u>2016:337:07:38:59.9063973</u>		
Frame: <u>F117</u>	<b>OBS Time TAG (2nd):</b>		
Float: <u>M694</u>	<u>2016:337:07:39:59.9063953</u>		
Radio: <u>NR37</u> On: <input checked="" type="checkbox"/>	OBS Time OK?: <input checked="" type="checkbox"/>	TFOM: <u>4</u>	
Strobe: <u>NS32</u> On: <input checked="" type="checkbox"/>	<b>Drift:</b> <u>-0.0936047</u>		
Geophone / Trillium <u>0BS10-6P45</u>	Raw File Name:		
Hydrophone / DPG <u>0BS10-HYD19</u>			
Deploy Time (GMT): <u>2016:301:04:27</u>			
Acoustic Disabled <input checked="" type="checkbox"/>			
Relocation Survey (Y / (NA))	REL LAT (Dec°):	REL LON (Dec°):	

**NOTES:**

Set S ADD's ✓  
 & L SYNC + TAG ✓



<b>LC4x4- ELECTRONICS CHECKLIST</b>		Cruise ID: MGL1610	Site ID: <u>SS49</u>
Instrument Type: SP 4x4		IRIS ID: 16-2, Network Code: XW	LAT (Dec°): <u>-19.83281</u>
<b>LAB CHECKOUT</b>		<b>DEPLOYMENT SETUP</b>	
Date: 20 Aug 2016 By: Sean		Date: <u>2016:301</u>	LON (Dec°): <u>-78.62779</u>
<b>LOGGER INFORMATION</b> <u>SP-86</u>		By: <u>MRB</u>	Water Depth (M): <u>1303</u>
CPU: <u>A015</u>		Software Version: <u>1.04K</u>	Acoustic Unit #: <u>150</u>
Seascan: <u>SIN 457</u>		Sync Time With GPS:	
A2D: <u>0108093</u> Jumpers Check: <input checked="" type="checkbox"/>		<u>2016:301:03:43:00</u>	
Clock: <u>                    </u>		OBS Time OK?: <input checked="" type="checkbox"/>	TFOM: <u>4</u>
Power: <u>5107040</u>		TAG Time OK?: <input checked="" type="checkbox"/>	
Backplane: <u>                    </u>		Wakeup Time: <u>2016:301:07:00:00</u>	
CF S/N (A): <u>2048-551</u> Size: <u>16GB</u>	# of Channels: <u>4</u>	Sample Rate: <u>200</u>	
CF S/N (B):                      Size:	CH-0 (L28X) Gain: <u>04</u>	CONFIG SELECTION ↓ <u>N</u>	
CF S/N (C):                      Size:	CH-1 (L28Y) Gain: <u>04</u>		
Expected Data Size: <u>10.46GB</u>	CH-2 (L28Z) Gain: <u>04</u>		
<b>BATTERY INFORMATION</b>	CH-3 (HYD) Gain: <u>16</u>		
Main Power Type: Alkaline Pro Battery	Header Comment: <u>SS49</u>		
Quantity: <del>400</del> <u>3xALK PROBAT</u> Voltage: <u>9.77V</u>	Start Experiment: <input checked="" type="checkbox"/>	TAG OK?: <input checked="" type="checkbox"/>	
Clock Pack Type: Alkaline Energizer	Clock Battery OK: <input checked="" type="checkbox"/>	Dessicant: <input checked="" type="checkbox"/>	
Quantity: 2D Voltage: <u>3.24V</u>	PURGE 6"Hg: <input checked="" type="checkbox"/>	Seal Screw: <input checked="" type="checkbox"/>	
Estimated Duration: 60 days	<b>DEPLOYMENT INFORMATION</b>		
<b>DEPLOYMENT INFORMATION</b>	<b>RECOVERY INFORMATION</b>		
Date: <u>2016:301</u> By: <u>MRB</u>	Date: <u>2016:337</u> By: <u>EA</u>		
Data Logger #: <u>SP-86</u>	OBS Time TAG (1st):		
Acoustics #: <u>150</u>	<u>2016:337:09:11:59.7757700</u>		
Frame: <u>FG3</u>	OBS Time TAG (2nd):		
Float: <u>M624</u>	<u>2016:337:09:12:59.7757661</u>		
Radio: <u>NR&amp;I</u> On: <input checked="" type="checkbox"/>	OBS Time OK?: <input checked="" type="checkbox"/>	TFOM: <u>4</u>	
Strobe: <u>NS79</u> On: <input checked="" type="checkbox"/>	Drift:		
Geophone / Trillium <u>OBS15-6P3</u>	<u>-0.2242339</u>		
Hydrophone / DPG <u>OBS10-14D11</u>	Raw File Name:		
Deploy Time (GMT): <u>2016:301:04:34</u>	<u>SS49.08J</u>		
Acoustic Disabled <input checked="" type="checkbox"/>	REL LAT (Dec°):	REL LON (Dec°):	
Relocation Survey (Y / <u>NA</u> )			

revised 19 Aug 2016

NOTES:

Setup { A2D   
          { Sync + TAG



<b>LC4x4- ELECTRONICS CHECKLIST</b>		Cruise ID: MGL1610	Site ID: <u>SS45</u>
Instrument Type: SP 4x4		IRIS ID: 16-2, Network Code: XW	LAT (Dec°): <u>-19.60539</u>
<b>LAB CHECKOUT</b>		<b>DEPLOYMENT SETUP</b>	LON (Dec°): <u>-70.54096</u>
Date: 20 Aug 2016 By: Sean		Date: <u>2016-300</u>	Water Depth (M): <u>729</u>
<b>LOGGER INFORMATION</b> <u>SP78</u>		By: <u>MLB</u>	Acoustic Unit #: <u>32</u>
CPU: <u>0108059</u>		Software Version: <u>1.04K</u>	
Seascan: <u>SIN 834</u>		<b>Sync Time With GPS:</b>	
A2D: <u>0108038</u> Jumpers Check: <input checked="" type="checkbox"/>		<u>2016:300:21:50:00</u>	
Clock: <u>                    </u>		OBS Time OK?: <input checked="" type="checkbox"/>	TFOM: <u>4</u>
Power: <u>5147017</u>		TAG Time OK?: <input checked="" type="checkbox"/>	
Backplane: <u>                    </u>		Wakeup Time: <u>2016:301:03:00:00</u>	
CF S/N (A): <u>2608-635</u> Size: <u>16GB</u>	# of Channels: <u>4</u>	Sample Rate: <u>200</u>	
CF S/N (B):                      Size:	CH-0 (L28X) Gain: <u>64</u>	<b>CONFIG SELECTION ↓</b> <u>N</u>	
CF S/N (C):                      Size:	CH-1 (L28Y) Gain: <u>64</u>		
Expected Data Size: <u>10.46GB</u>	CH-2 (L28Z) Gain: <u>64</u>		
<b>BATTERY INFORMATION</b>	CH-3 (HYD) Gain: <u>16</u>		
Main Power Type: Alkaline Pro Battery	Header Comment: <u>SS45</u>		
Quantity: <u>3xALK ProBatt</u> Voltage: <u>9.76V</u>	Start Experiment: <input checked="" type="checkbox"/>		
Clock Pack Type: Alkaline Energizer	TAG OK?: <input checked="" type="checkbox"/>		
Quantity: 2D Voltage: <u>3.25V</u>	Clock Battery OK: <input checked="" type="checkbox"/>		
Estimated Duration: 60 days	PURGE 6"Hg: <input checked="" type="checkbox"/>		
<b>DEPLOYMENT INFORMATION</b>		<b>RECOVERY INFORMATION</b>	
Date: <u>2016-300</u> By: <u>MLB</u>	Date: <u>2016:337</u> By: <u>FA</u>	<b>OBS Time TAG (1st):</b>	
Data Logger #: <u>SP78</u>	<u>2016:337:15:11:26.9227924</u>		
Acoustics #: <u>32</u>	<b>OBS Time TAG (2nd):</b>		
Frame: <u>F60</u>	<u>2016:337:15:12:26.9228022</u>		
Float: <u>M637</u>	OBS Time OK?: <input checked="" type="checkbox"/>		
Radio: <u>NR55</u> On: [ ]	TFOM: <u>4</u>		
Strobe: <u>NS22</u> On: [ ]	<b>Drift:</b> <u>+26.9228022</u>		
Geophone / Trillium <u>03515-6PA7</u>	Raw File Name: <u>SS45.OBS</u>		
Hydrophone / DPG <u>03510-14Y009</u>	REL LAT (Dec°):		
Deploy Time (GMT): <u>2016:301:03:14</u>	REL LON (Dec°):		
Acoustic Disabled <input checked="" type="checkbox"/>			
Relocation Survey (Y / <u>NA</u> )			

revised 19 Aug 2016

**NOTES:**

Set SADD's ✓  
up { Sync+TAG ✓

3RD Time TAG AFTER Reset  
2016:337:15:16:26.9228389

DRIFT = +26.9228389

From Zyper GUI

The FUP would be:

$26.9228389 - 60 = -33.0771620$

$-33.0771611$



<b>BUG- ELECTRONICS CHECKLIST</b>		Cruise ID: <b>MGL1610</b>	Site ID: <b>SS34</b>
Instrument Type: <b>(SP)</b> LP ABA FLIP	Mission File: Trehu_deploy.txt	LAT (Dec°): <del>19.402276</del> <b>19.402276</b>	
<b>LAB CHECKOUT</b>	IRIS ID: 16-2, Network Code: XW	LON (Dec°): <b>-70.44222</b>	
Date: 8/23/16 By: Sean McPeak	<b>DEPLOYMENT SETUP</b>	Water Depth (M): <b>734.92</b>	
<b>LOGGER INFORMATION</b>	YYYY:JD <b>2016:298</b> By: <b>ML6</b>	Acoustic Unit #: <b>87</b>	
Logger Endcap # <b>SP206</b>	Power Relays:	(V) Voltage: <b>9.27</b>	
CF Serial Number: <b>2048-675</b>	Main (QM1) [ <input checked="" type="checkbox"/> ] Trillium (QS1) [ <input checked="" type="checkbox"/> ]	Temp: <b>72.9</b>	
CF Size: <b>16GB</b>	Clock (QC1) [ <input checked="" type="checkbox"/> ] Analog (QA1) [ <input checked="" type="checkbox"/> ]	Set Header: <b>SS34</b>	
Number A2D files: <b>4</b>	Erase housekeeping data (he1234) [ <input checked="" type="checkbox"/> ]		
Expected Data Size: <b>10GB-mSEED</b>	Mount CF (FV): [ <input checked="" type="checkbox"/> ] A2D Dat Files Found: <b>4</b>		
Logger Module # <b>13002</b>	Current LBA static (L)?: [ ] <b>1079906</b> { use multiple (L) commands }		
<b>BATTERY INFORMATION</b>	Enable FPGA Reset Detect (W4,1): [ <input checked="" type="checkbox"/> ]		
Main Power Type: Alkaline Pro Battery <b>9.70V</b>	Save Mission to EEPROM (ZL): [ <input checked="" type="checkbox"/> ]		
Quantity: 3xProBat ALK Date checked: <b>8/25/16</b>	Display Mission (X20000): [ <input checked="" type="checkbox"/> ] Verify Mission matches expected: [ <input checked="" type="checkbox"/> ]		
Clock Pack Type: Alkaline Energizer <b>3.23V</b>	Initialize Sample Rate and Gain (e.g. a50,1,1,1,64): [ ]		
Quantity: 2D Energizer Date checked: <b>8/25/16</b>	Sample Rate: <b>200</b> # days A2D recording: <b>55.3</b>		
Anticipated Duration: 60 days	Gains: CH1 <b>64</b> CH2 <b>64</b> CH3 <b>64</b> CH4 <b>16</b>		
Notes:	A2D Check {1st two char.}: (M1): <input checked="" type="checkbox"/> (M2): <input checked="" type="checkbox"/> (M3): <input checked="" type="checkbox"/> (M4): <input checked="" type="checkbox"/>		
	Values changing on all channels @ appropriate rate? [ <input checked="" type="checkbox"/> ]		
	Clock Sync Time (U): <b>2016:298:07:04:00</b> TFOM: _____		
<b>DEPLOYMENT INFORMATION</b>	SYS Minutes: <b>0</b> CLK Minutes: <b>0</b> Diff by ~1: [ <input checked="" type="checkbox"/> ]		
Date: <b>2016:298</b> By: <b>ML6</b>	System TAG (PS): <b>2016:298:07:05:59.9999958</b>		
Data Logger: <b>BS16-007</b>	Clock TAG (PC): <b>2016:298:07:06:59.9999961</b>		
Acoustics: <b>87</b>	Type "D" To be sure clocks zero out: [ <input checked="" type="checkbox"/> ]		
Frame: <b>F115</b>	*** Start Mission (ZR): [ <input checked="" type="checkbox"/> ] ***		
Float: <b>MG42</b>	<b>RECOVERY INFORMATION</b>	YYYY:JD <b>2016:337</b> By: <b>KA</b>	
Radio: <b>XEOS</b>	(V) Voltage: <b>7.55V</b>	Temp: <b>63.9F</b>	
Strobe: <b>NS26</b>	FPGA Not Reset (R0): [ <input checked="" type="checkbox"/> ] { If reset <b>DO NOT</b> Click End Logging }		
Geophone: <b>08818-GP53</b>	LBA Incrementing by # chans (L): [ <input checked="" type="checkbox"/> ] { use multiple (L) commands }		
Hydrophone (/DPG): <b>08818-4YD023</b>	End Logging (T1234): [ <input checked="" type="checkbox"/> ]		
Deploy Time: <b>2016:298:10:07</b>	Last Sector: <b>22700790</b> # Sectors: <b>21620882</b>		
Acoustic Disabled [ <input checked="" type="checkbox"/> ]	Save Time TAG (u): <b>2016:337:17:08:00</b> TFOM: <b>4</b>		
	** System TAG (PS): <b>2016:337:17:08:59.6809433</b>		
Relocation Survey [Y/N/NA] <b>(NA)</b>	** Drift {based on 'PS' command results}: <b>-0.3190567</b>		
REL LAT Dec°:	Clock TAG (PC): <b>2016:337:17:09:59.6809406</b>		
REL LON Dec°:	Save Housekeeping to CF (HS): [ <input checked="" type="checkbox"/> ]		

revised 19 Aug 2016

NOTES:  
A2D Gain Verification  
64,64,64,16 ✓

LAT - 19.402276  
LON - 70.442221

BS16-007



BUG- ELECTRONICS CHECKLIST		Cruise ID: MGL1610	Site ID: 5533
Instrument Type: (SP) LP ABA FLIP		Mission File: Trehu_deploy.txt	LAT (Dec°): -19.45935
LAB CHECKOUT		IRIS ID: 16-2, Network Code: XW	LON (Dec°): -70.56598
Date: 8/23/16	By: Sean McPeak	DEPLOYMENT SETUP	
LOGGER INFORMATION		YYYY:JD 2016:298	By: MRL
Logger Endcap #	SP204	Power Relays:	(V) Voltage: 9.29
CF Serial Number:	2008-698	Main (QM1) [✓] Trillium (QS1) [✓]	Temp: 72.7
CF Size:	16GB	Clock (QC1) [✓] Analog (QA1) [✓]	Set Header: 5533
Number A2D files:	4	Erase housekeeping data (he1234) [✓]	
Expected Data Size:	10GB-MSEED	Mount CF (FV): [✓]	A2D Dat Files Found: 4
Logger Module #	14009	Current LBA static (L)?: [✓] 1079909	{ use multiple (L) commands }
BATTERY INFORMATION		Enable FPGA Reset Detect (W4,1): [✓]	
Main Power Type:	Alkaline Pro Battery 9.77V	Save Mission to EEPROM (ZL): [✓]	
Quantity:	3xProBat ALK Date checked: 8/27/16	Display Mission (X20000): [✓]	Verify Mission matches expected: [✓]
Clock Pack Type:	Alkaline Energizer 3.23V	Initialize Sample Rate and Gain (e.g. a50,1,1,1,64): [ ]	
Quantity:	2D Energizer Date checked: 8/27/16	Sample Rate: 200	# days A2D recording: 55.3
Anticipated Duration:	60 days	Gains: CH1 64 CH2 64 CH3 64 CH4 16	
Notes:		A2D Check {1st two char.}: (M1): ✓ (M2): ✓ (M3): ✓ (M4): ✓	
		Values changing on all channels @ appropriate rate? [✓]	
		Clock Sync Time (U): 2016:298:08:28:00	TFOM: 4
DEPLOYMENT INFORMATION		SYS Minutes: 8	CLK Minutes: 8
Date:	2016:298	By:	FEA
Data Logger:	BS16-005	System TAG (PS):	2016:298:08:29:00.0000003
Acoustics:	14	Clock TAG (PC):	2016:298:08:29:59.9999975
Frame:	F42	Type "D" To be sure clocks zero out:	[✓]
Float:	M6 28	*** Start Mission (ZR): [ ] ***	
Radio:	NS 41	RECOVERY INFORMATION	
Strobe:	x eos	YYYY:JD	2016:337
Geophone:	0BS18-GP43	By:	FEA
Hydrophone (1 DPG):	0BS18-A4D 47	(V) Voltage:	7.57V
Deploy Time:	298: 08:51:14	Temp:	64.2F
Acoustic Disabled	[✓]	FPGA Not Reset (R0): [✓]	{ If reset DO NOT Click End Logging }
		LBA Incrementing by # chans (L): [✓]	{ use multiple (L) commands }
Relocation Survey [ Y / N / NA ]		End Logging (T1234): [✓]	
REL LAT Dec°:		Last Sector: 22702278	# Sectors: 21622370
REL LON Dec°:		Save Time TAG (u):	2016:337:18:36:00
		** System TAG (PS):	2016:337:18:36:59.9926821
		** Drift (based on 'PS' command results):	-0.0073179
		Clock TAG (PC):	2016:337:18:37:59.9926909
		Save Housekeeping to CF (HS): [✓]	

NOTES:

A2D Gain Verification  
64,64,64,16 ✓

BS16-005



<b>LC4x4- ELECTRONICS CHECKLIST</b>		Cruise ID: MGL1610	Site ID: <u>SS32</u>
Instrument Type: SP 4x4		IRIS ID: 16-2, Network Code: XW	LAT (Dec°): <u>-19.51928</u>
<b>LAB CHECKOUT</b>		<b>DEPLOYMENT SETUP</b>	
Date: 20 Aug 2016 By: Sean		Date: <u>2016:300</u>	LON (Dec°): <u>-70.69110</u>
<b>LOGGER INFORMATION</b> <u>SP65</u>		By: <u>MRB</u>	Water Depth (M): <u>772</u>
CPU: <u>0108107</u>		Software Version: <u>1.04K</u>	Acoustic Unit #: <u>28</u>
Seascan: <u>SIN 833</u>		Sync Time With GPS: <u>2016:300:20:29:00</u>	
A2D: <u>0108094</u> Jumpers Check: [ <input checked="" type="checkbox"/> ]		OBS Time OK?: [ <input checked="" type="checkbox"/> ]	TFOM: <u>4</u>
Clock: <u>—————</u>		TAG Time OK?: [ <input checked="" type="checkbox"/> ]	
Power: <u>5107033</u>		Wakeup Time: <u>2016:300:23:00:00</u>	
Backplane: <u>—————</u>		# of Channels: <u>4</u>	Sample Rate: <u>200</u>
CF S/N (A): <u>2008-508</u> Size: <u>16GB</u>	CF S/N (B): _____ Size: _____	CH-0 (L28X) Gain: <u>64</u>	CONFIG SELECTION ↓
CF S/N (C): _____ Size: _____	Expected Data Size: <u>10.46GB</u>	CH-1 (L28Y) Gain: <u>64</u>	
<b>BATTERY INFORMATION</b>		CH-2 (L28Z) Gain: <u>64</u>	
Main Power Type: Alkaline Pro Battery	Quantity: <u>3xALK</u> <u>2005AH</u> Voltage: <u>9.77V</u>	CH-3 (HYD) Gain: <u>16</u>	Header Comment: <u>SS32</u>
Clock Pack Type: Alkaline Energizer	Quantity: 2D Voltage: <u>3.26V</u>	Start Experiment: [ <input checked="" type="checkbox"/> ]	TAG OK?: [ <input checked="" type="checkbox"/> ]
Estimated Duration: 60 days		Clock Battery OK: [ <input checked="" type="checkbox"/> ]	Dessicant: [ <input checked="" type="checkbox"/> ]
		PURGE 6"Hg: [ <input checked="" type="checkbox"/> ]	Seal Screw: [ <input checked="" type="checkbox"/> ]
<b>DEPLOYMENT INFORMATION</b>		<b>RECOVERY INFORMATION</b>	
Date: <u>2016:300</u> By: <u>REA</u>	Date: <u>2016:337</u> By: <u>REA</u>	OBS Time TAG (1st): <u>2016:337:19:56:00.0486588</u>	
Data Logger #: <u>SP65</u>		OBS Time TAG (2nd): <u>2016:337:19:57:00.0486613</u>	
Acoustics #: <u>28</u>		OBS Time OK?: [ <input checked="" type="checkbox"/> ]	TFOM: <u>4</u>
Frame: <u>F78</u>		Drift: <u>0.0486613</u>	
Float: <u>MG18</u>		Raw File Name: <u>SS32.OBS</u>	
Radio: <u>NR72</u> On: [ <input type="checkbox"/> ]			
Strobe: <u>NS62</u> On: [ <input type="checkbox"/> ]			
Geophone / Trillium <u>OBS 10 G102</u>			
Hydrophone / DPG <u>OBS 10 Hyd 28</u>			
Deploy Time (GMT): _____			
Acoustic Disabled [ <input checked="" type="checkbox"/> ]			
Relocation Survey (Y / <u>NA</u> )	REL LAT (Dec°): _____	REL LON (Dec°): _____	

NOTES:

Set A2D's ✓  
up S/N + TAG ✓



BUG- ELECTRONICS CHECKLIST		Cruise ID: MGL1610	Site ID: SS16
Instrument Type: (SP) LP ABA FLIP		Mission File: Trehu_deploy.txt	LAT (Dec°): -19.45178
LAB CHECKOUT		IRIS ID: 16-2, Network Code: XW	LON (Dec°): -70.85587
Date: 8/23/16	By: Sean McPeak	DEPLOYMENT SETUP	Water Depth (M): 1430
LOGGER INFORMATION	YYYY:JD 2016:300	By: EA	Acoustic Unit #: 72
Logger Endcap #: SP202	Power Relays:	(V) Voltage: 9.13	
CF Serial Number: 2008-619	Main (QM1) [✓] Trillium (QS1) [✓]	Temp: 71.4	
CF Size: 16GB	Clock (QC1) [✓] Analog (QA1) [✓]	Set Header: SS16	
Number A2D files: 4	Erase housekeeping data (he1234) [✓]		
Expected Data Size: 16GB-MSEED	Mount CF (FV): [✓]	A2D Dat Files Found: 4	
Logger Module #: 15001	Current LBA static (L)?: [✓] 1079909 { use multiple (L) commands }		
BATTERY INFORMATION	Enable FPGA Reset Detect (W4,1): [✓]		
Main Power Type: Alkaline Pro Battery 9.69V	Save Mission to EEPROM (ZL): [✓]		
Quantity: 3xProBat ALK Date checked: 8/26/16	Display Mission (X20000): [✓]	Verify Mission matches expected: [✓]	
Clock Pack Type: Alkaline Energizer 3.25V	Initialize Sample Rate and Gain (e.g. a50,1,1,1,64): [✓]		
Quantity: 2D Energizer Date checked: 8/26/16	Sample Rate: 2000	# days A2D recording: 55.3	
Anticipated Duration: 60 days	Gains: CH1 64 CH2 64 CH3 64 CH4 16		
Notes:	A2D Check {1st two char.}: (M1): ✓ (M2): ✓ (M3): ✓ (M4): ✓		
	Values changing on all channels @ appropriate rate? [✓]		
	3Clock Sync Time (U): 2016:300:18:41:00	TFOM: 4	
DEPLOYMENT INFORMATION	SYS Minutes: 0	CLK Minutes: 0	Diff by ~1: [✓]
Date: 2016:300	By: EA	System TAG (PS): 2016:300:18:41:59.9999990	
Data Logger: BS16-003	Clock TAG (PC): 2016:300:18:42:59.9999942		
Acoustics: 72	Type "D" To be sure clocks zero out: [✓] AFT SYNC		
Frame: F34	*** Start Mission (ZR): [✓] ***		
Float: M6241	RECOVERY INFORMATION	YYYY:JD 2016:337	By: M66
Radio: NR44	(V) Voltage: 7.46	Temp: 58.9	
Strobe: NS32	FPGA Not Reset (R0): [✓]	{ If reset DO NOT Click End Logging }	
Geophone: OBS15 GP2	LBA Incrementing by # chans (L): [✓]	{ use multiple (L) commands }	
Hydrophone (/DPG): OBS10 A4D56	End Logging (T1234): [✓]		
Deploy Time: 2016:300:20:02:00	Last Sector: 2146682	# Sectors: 20386774	
Acoustic Disabled [✓]	Save Time TAG (u): 2016:337:22:46:00	TFOM: 4	
	** System TAG (PS): 2016:337:22:46:59.5625705		
Relocation Survey [Y/N/NA]	** Drift {based on 'PS' command results}: -0.4374295		
REL LAT Dec°:	Clock TAG (PC): 2016:337:22:48:59.5625562		
REL LON Dec°:	Save Housekeeping to CF (HS): [✓]		

revised 19 Aug 2016

NOTES:  
A2D Gain Verification  
64,64,64,16 ✓

\* AT START mission  
THE GUI FREEZE ON THE  
SCREEN, BUT AFTER PROMPTING  
TO PULL THE USB I AFTER I  
PULLED THE USB CABLE FROM LOGGED.

Com 36



<b>BUG- ELECTRONICS CHECKLIST</b>		Cruise ID: <b>MGL1610</b>	Site ID: <b>SS40</b>
Instrument Type: (SP) LP ABA FLIP		Mission File: Trehu_deploy.txt	LAT (Dec°): -19.37879
<b>LAB CHECKOUT</b>		IRIS ID: 16-2, Network Code: XW	LON (Dec°): -70.71386
Date: 8/23/16	By: Sean McPeak	<b>DEPLOYMENT SETUP</b>	
<b>LOGGER INFORMATION</b>		YYYY:JD <b>2016:298</b> By: <b>EA</b>	Water Depth (M): <b>870</b>
Logger Endcap # <b>13036</b>		Power Relays:	(V) Voltage: <b>9.24</b>
CF Serial Number: <b>2008-680</b>		Main (QM1) <input checked="" type="checkbox"/> Trillium (QS1) <input checked="" type="checkbox"/>	Temp: <b>73.4</b>
CF Size: <b>16GB</b>		Clock (QC1) <input checked="" type="checkbox"/> Analog (QA1) <input checked="" type="checkbox"/>	Set Header: <b>SS40</b>
Number A2D files: <b>4</b>		Erase housekeeping data (he1234) <input checked="" type="checkbox"/>	
Expected Data Size: <b>106B-mSEED</b>		Mount CF (FV): <input checked="" type="checkbox"/>	A2D Dat Files Found: <b>4</b>
Logger Module # <b>14011</b>		Current LBA static (L)?: <input checked="" type="checkbox"/> <b>1079989</b> { use multiple (L) commands }	
<b>BATTERY INFORMATION</b>		Enable FPGA Reset Detect (W4,1): <input checked="" type="checkbox"/>	
Main Power Type: Alkaline Pro Battery <b>9.70V</b>		Save Mission to EEPROM (ZL): <input checked="" type="checkbox"/>	
Quantity: 3xProBat ALK Date checked <b>8/28/16</b>		Display Mission (X20000): <input checked="" type="checkbox"/>	Verify Mission matches expected: <input checked="" type="checkbox"/>
Clock Pack Type: Alkaline Energizer <b>3.23V</b>		Initialize Sample Rate and Gain (e.g. a50,1,1,1,64): <input checked="" type="checkbox"/>	
Quantity: 2D Energizer Date checked: <b>8/28/16</b>		Sample Rate: <b>208</b>	# days A2D recording: <b>55.3</b>
Anticipated Duration: 60 days		Gains: CH1 <b>64</b> CH2 <b>64</b> CH3 <b>64</b> CH4 <b>16</b>	
Notes:		A2D Check (1st two char.): (M1): <input checked="" type="checkbox"/> (M2): <input checked="" type="checkbox"/> (M3): <input checked="" type="checkbox"/> (M4): <input checked="" type="checkbox"/>	
		Values changing on all channels @ appropriate rate? <input checked="" type="checkbox"/>	
		<b>2</b> Clock Sync Time (U): <b>2016:298:09:32:00</b> TFOM: <b>4</b>	
<b>DEPLOYMENT INFORMATION</b>		SYS Minutes: <b>0</b> CLK Minutes: <b>0</b> Diff by ~1: <input checked="" type="checkbox"/>	
Date: <b>2016:298</b> By: <b>EA</b>		<b>System TAG (PS):</b> <b>2016:298:09:33:00, 0000626</b>	
Data Logger: <b>BS16-028</b>		Clock TAG (PC): <b>2016:298:09:33:59.9999962</b>	
Acoustics: <b>108</b>		Type "D" To be sure clocks zero out: <input checked="" type="checkbox"/> <b>AFTER Sync</b>	
Frame: <b>F114</b>		<b>*** Start Mission (ZR): <input checked="" type="checkbox"/> ***</b>	
Float: <b>M633</b>		<b>RECOVERY INFORMATION</b> YYYY:JD <b>2016:338</b> By: <b>MR0</b>	
Radio: <b>XEOS</b>		(V) Voltage: <b>7.52</b>	Temp: <b>58.3</b>
Strobe: <b>NS42</b>		FPGA Not Reset (R0): <input checked="" type="checkbox"/>	{ If reset <b>DO NOT</b> Click End Logging }
Geophone: <b>OBS10-GP34</b>		LBA Incrementing by # chans (L): <input checked="" type="checkbox"/>	{ use multiple (L) commands }
Hydrophone (/DPG): <b>OBS10-HYD24</b>		End Logging (T1234): <input checked="" type="checkbox"/>	
Deploy Time: <b>298:12:24</b>		Last Sector <b>22808098</b>	# Sectors: <b>21728198</b>
Acoustic Disabled <input checked="" type="checkbox"/>		<b>Save Time TAG (u):</b> <b>2016:338:00:19:00</b> TFOM: <b>4</b>	
		<b>** System TAG (PS):</b> <b>2016:338:00:19:59.9983673</b>	
Relocation Survey [Y/N/NA]		<b>** Drift {based on 'PS' command results}: -0.0016327</b>	
REL LAT Dec°:		Clock TAG (PC): <b>2016:338:00:20:59.9983074</b>	
REL LON Dec°:		Save Housekeeping to CF (HS): <input checked="" type="checkbox"/>	

**NOTES:**

Setup { A2D Gain Verification }  
 { 64, 64, 64, 16 } ✓



BUG- ELECTRONICS CHECKLIST		Cruise ID: MGL1610	Site ID: 5541
Instrument Type (SP) LP ABA FLIP		Mission File: Trehu_deploy.txt	LAT (Dec°): <del>-19° 19.304168</del>
LAB CHECKOUT		IRIS ID: 16-2, Network Code: XW	LON (Dec°): <del>-70° 35.76528W</del>
Date: 8/23/16	By: Sean McPeak	DEPLOYMENT SETUP	
LOGGER INFORMATION		YYYY:JD 2016:298	By: MR6
Logger Endcap # 13025		Power Relays:	(V) Voltage: 9.18
CF Serial Number: 2015-013		Main (QM1) [ <input checked="" type="checkbox"/> Trillium (QS1) [ <input type="checkbox"/> ]	Temp: 72.5
CF Size: 32GB		Clock (QC1) [ <input checked="" type="checkbox"/> Analog (QA1) [ <input type="checkbox"/> ]	Set Header: 5541
Number A2D files: 5		Erase housekeeping data (he1234) [ <input checked="" type="checkbox"/> ]	
Expected Data Size: 10GB-mSEED		Mount CF (FV): [ <input checked="" type="checkbox"/> ]	A2D Dat Files Found: 5
Logger Module #		Current LBA static (L)?: [ <input checked="" type="checkbox"/> 1079203 { use multiple (L) commands } ]	
BATTERY INFORMATION		Enable FPGA Reset Detect (W4,1): [ <input checked="" type="checkbox"/> ]	
Main Power Type: Alkaline Pro Battery 9.70V		Save Mission to EEPROM (ZL): [ <input checked="" type="checkbox"/> ]	
Quantity: 3xProBat ALK Date checked: 8/24/16		Display Mission (X20000): [ <input checked="" type="checkbox"/> ]	Verify Mission matches expected: [ <input checked="" type="checkbox"/> ]
Clock Pack Type: Alkaline Energizer 3.23V		Initialize Sample Rate and Gain (e.g. a50,1,1,1,64): [ <input type="checkbox"/> ]	
Quantity: 2D Energizer Date checked: 8/26/16		Sample Rate: 200	# days A2D recording: 60.9
Anticipated Duration: 60 days		Gains: CH1 64 CH2 64 CH3 64 CH4 16	
Notes:		A2D Check {1st two char.}: (M1): <input checked="" type="checkbox"/> (M2): <input checked="" type="checkbox"/> (M3): <input checked="" type="checkbox"/> (M4): <input checked="" type="checkbox"/>	
		Values changing on all channels @ appropriate rate? [ <input checked="" type="checkbox"/> ]	
		Clock Sync Time (U): 2016:298:05:55:00	TFOM: _____
DEPLOYMENT INFORMATION		SYS Minutes: 0	CLK Minutes: 0
Date: 2016	By: MR6	Diff by ~1: [ <input checked="" type="checkbox"/> ]	
Data Logger: 13025/BS16-024		System TAG (PS): 2016:298:05:55:59.9999786	
Acoustics: 71		Clock TAG (PC): 2016:298:05:56:59.9999986	
Frame: F26		Type "D" To be sure clocks zero out: [ <input checked="" type="checkbox"/> ]	
Float: <del>F26</del> M609		*** Start Mission (ZR): [ <input checked="" type="checkbox"/> ] ***	
Radio: NR 85		RECOVERY INFORMATION	YYYY:JD 2016:338
Strobe: NS29		(V) Voltage: 7.47	By: MR6
Geophone: OBS10-6P023		FPGA Not Reset (R0): [ <input checked="" type="checkbox"/> ]	Temp: 56.5
Hydrophone (1 DPG): OBS10-H4D16		{ If reset DO NOT Click End Logging }	
Deploy Time: 2016:298:08:51		LBA Incrementing by # chans (L): [ <input checked="" type="checkbox"/> ]	{ use multiple (L) commands }
Acoustic Disabled [ <input checked="" type="checkbox"/> ]		End Logging (T1234): [ <input checked="" type="checkbox"/> ]	
Relocation Survey [ Y / N / NA ]		Last Sector: 22921768	# Sectors: 21842566
REL LAT Dec°:		Save Time TAG (u): 2016:338:01:41:00	TFOM: 4
REL LON Dec°:		** System TAG (PS): 2016:338:01:41:59.9168186	
		** Drift {based on 'PS' command results}: - 0.0831814	
		Clock TAG (PC): 2016:338:01:42:59.9168418	
		Save Housekeeping to CF (HS): [ <input checked="" type="checkbox"/> ]	

NOTES:

A2D Gain Verification ✓  
64,64,64,16

LAT - 19.321737  
LON - 70.596088

BS16-024



BUG- ELECTRONICS CHECKLIST		Cruise ID: MGL1610	Site ID: 5537
Instrument Type: (SP) LP ABA FLIP		Mission File: Trehu_deploy.txt	LAT (Dec°): 19° 15.37018
LAB CHECKOUT		IRIS ID: 16-2, Network Code: XW	LON (Dec°): 70° 43.558375
Date: 8/23/16 By: Sean McPeak		DEPLOYMENT SETUP	
LOGGER INFORMATION		YYYY:JD 2016:298 By: MRB	Water Depth (M): 1049
Logger Endcap # 13034		Power Relays:	(V) Voltage: 9.27V
CF Serial Number: 2008-521		Main (QM1) [ <input checked="" type="checkbox"/> ] Trillium (QS1) [ <input checked="" type="checkbox"/> ]	Temp: 74.3V
CF Size: 16GB		Clock (QC1) [ <input checked="" type="checkbox"/> ] Analog (QA1) [ <input checked="" type="checkbox"/> ]	Set Header: 5537
Number A2D files: 4		Erase housekeeping data (he1234) [ <input checked="" type="checkbox"/> ]	
Expected Data Size: 10GB-mseed		Mount CF (FV): [ <input checked="" type="checkbox"/> ]	A2D Dat Files Found: 4
Logger Module # 14031		Current LBA static (L)?: [ <input checked="" type="checkbox"/> ] 1079909 { use multiple (L) commands }	
BATTERY INFORMATION		Enable FPGA Reset Detect (W4,1): [ <input checked="" type="checkbox"/> ]	
Main Power Type: Alkaline Pro Battery 9.7V		Save Mission to EEPROM (ZL): [ <input checked="" type="checkbox"/> ]	
Quantity: 3xProBat ALK Date checked: 8/29/16		Display Mission (X20000): [ <input checked="" type="checkbox"/> ]	Verify Mission matches expected: [ <input checked="" type="checkbox"/> ]
Clock Pack Type: Alkaline Energizer 3.24V		Initialize Sample Rate and Gain (e.g. a50,1,1,1,64): [ ]	
Quantity: 2D Energizer Date checked: 8/29/16		Sample Rate: 200	# days A2D recording: 55.3
Anticipated Duration: 60 days		Gains: CH1 64 CH2 64 CH3 64 CH4 16	
Notes:		A2D Check {1st two char.}: (M1): <input checked="" type="checkbox"/> (M2): <input checked="" type="checkbox"/> (M3): <input checked="" type="checkbox"/> (M4): <input checked="" type="checkbox"/>	
		Values changing on all channels @ appropriate rate? <input checked="" type="checkbox"/>	
		Clock Sync Time (U): 2016:298:04:48:00 TFOM: 4	
DEPLOYMENT INFORMATION		SYS Minutes: 0 CLK Minutes: 0 Diff by ~1: [ <input checked="" type="checkbox"/> ]	
Date: 2016:298 By: MRB		System TAG (PS): 2016:298:04:49:00.0000026	
Data Logger: 13034/BS16-011		Clock TAG (PC): 2016:298:04:49:59.9999979	
Acoustics: 99		Type "D" To be sure clocks zero out: [ <input checked="" type="checkbox"/> ]	
Frame: F51		*** Start Mission (ZR): [ ] ***	
Float: M695		RECOVERY INFORMATION	YYYY:JD 2016:338 By: MRB
Radio: NR30		(V) Voltage: 7.53	Temp: 61.5
Strobe: NS76		FPGA Not Reset (R0): [ <input checked="" type="checkbox"/> ]	{ If reset DO NOT Click End Logging }
Geophone: OBS10-6P25		LBA Incrementing by # chans (L): [ <input checked="" type="checkbox"/> ]	{ use multiple (L) commands }
Hydrophone (DPG): OBS10-4YD30		End Logging (T1234): [ <input checked="" type="checkbox"/> ]	
Deploy Time: 2016:298:07:41		Last Sector: 22984766	# Sectors: 21904858
Acoustic Disabled [ <input checked="" type="checkbox"/> ]		Save Time TAG (u): 2016:338:03:17:00 TFOM: 4	
		** System TAG (PS): 2016:338:03:18:00.0347119	
Relocation Survey [ Y / N / (NA) ]		** Drift {based on 'PS' command results}: +0.0347119	
REL LAT Dec°:		Clock TAG (PC): 2016:338:03:19:00.0347124	
REL LON Dec°:		Save Housekeeping to CF (HS): [ <input checked="" type="checkbox"/> ]	

NOTES:

A2D Gain Verification  
64, 64, 64, 16 ✓

★ Lost Flag  
LAT - 19.25618  
LON - 70.725973

BS16-011



BUG- ELECTRONICS CHECKLIST		Cruise ID: MGL1610	Site ID: SS20
Instrument Type: (SP) LP ABA FLIP		Mission File: Trehu_deploy.txt	LAT (Dec°): 18°54.503185
LAB CHECKOUT		IRIS ID: 16-2, Network Code: XW	LON (Dec°): 70°55.575128 W
Date: 8/23/16 By: Sam McPeak		DEPLOYMENT SETUP	Water Depth (M): 152.5
LOGGER INFORMATION	YYYY:JD 2016:297 By: MRB		Acoustic Unit #: 98
Logger Endcap # 13010	Power Relays:		(V) Voltage: 9.21
CF Serial Number: 2015-009	Main (QM1) [✓] Trillium (QS1) [✓]		Temp: 76.1 F
CF Size: 32GB	Clock (QC1) [✓] Analog (QA1) [✓]		Set Header: SS20
Number A2D files: 5	Erase housekeeping data (he1234) [✓]		
Expected Data Size: 10GB mSPEED	Mount CF (FV): [✓]	A2D Dat Files Found: 5	
Logger Module # 13037	Current LBA static (L)?: [✓] 1079203	{ use multiple (L) commands }	
BATTERY INFORMATION	Enable FPGA Reset Detect (W4,1): [✓]		
Main Power Type: Alkaline Pro Battery	Save Mission to EEPROM (ZL): [✓]		
Quantity: 489.96V Date checked: 8/23/16	Display Mission (X20000): [✓]	Verify Mission matches expected: [✓]	
Clock Pack Type: Alkaline Energizer	Initialize Sample Rate and Gain (e.g. a50,1,1,1,64): [✓]		
Quantity: 2D 3.25V Date checked: 8/23/16	Sample Rate: 200	# days A2D recording: 60.9	
Anticipated Duration: 60 days	Gains: CH1 64 CH2 64 CH3 64 CH4 16		
Notes:	A2D Check {1st two char.}: (M1): ✓ (M2): ✓ (M3): ✓ (M4): ✓		
	Values changing on all channels @ appropriate rate? [✓]		
	3Clock Sync Time (U): 2016:297:18:38:00	TFOM: 4	
DEPLOYMENT INFORMATION	DSYS Minutes: 20 CLK Minutes: 20	Diff by ~1: [✓]	
Date: 2016:298 By: MRB	System TAG (PS): 2016:297:18:42:00.0000005		
Data Logger: 13010 - BS16-012	Clock TAG (PC): 2016:297:18:44:00.0000000		
Acoustics: 98	Type "D" To be sure clocks zero out: [✓] BEFORE PS+PC		
Frame: F104	*** Start Mission (ZR): [✓] ***		
Float: M6249	RECOVERY INFORMATION	YYYY:JD 2016:338 By: MRB	
Radio: OBS10-NR07	(V) Voltage: 7.48	Temp: 59.3	
Strobe: OBS10-NS10	FPGA Not Reset (R0): [✓]	{ If reset DO NOT Click End Logging }	
Geophone: OBS10-GP50	LBA Incrementing by # chans (L): [✓]	{ use multiple (L) commands }	
Hydrophone ( / DPG): OBS10-H41D 37	End Logging (T1234): [✓]		
Deploy Time: 2016:298:04:04	Last Sector: 23274284	# Sectors: 22195082	
Acoustic Disabled [✓]	Save Time TAG (u): 2016:338:06:22:00	TFOM: 4	
	** System TAG (PS): 2016:338:06:23:00.0634264		
	** Drift {based on 'PS' command results}: + 0.0634264		
Relocation Survey [Y/N/NA]	Clock TAG (PC): 2016:338:06:24:00.0634689		
REL LAT Dec°:	Save Housekeeping to CF (HS): [✓]		
REL LON Dec°:			

NOTES:

± A2D Gains Verified  
 1/64, 64, 64, 16 ✓

LAT - 18.908386  
 LON - 70.926252

revised 19 Aug 2016

BS16-012

\* Logged module # 14006 SWAP

Logger module # 13037 IS NOT TALKING TO ME.

START UTC  
 HK Log =  
 2016:297:19:11:00



BUG- ELECTRONICS CHECKLIST		Cruise ID: MGL1610	Site ID: SS19
Instrument Type: (SP) LP ABA FLIP		Mission File: Trehu_deploy.txt	LAT (Dec°): 19° 02.40512
LAB CHECKOUT		IRIS ID: 16-2, Network Code: XW	LON (Dec°): 70° 54.317
Date: 8/23/16	By: Sean McPeak	DEPLOYMENT SETUP	
LOGGER INFORMATION		YYYY:JD 2016:297	By: EA
Logger Endcap # 13015		Power Relays:	(V) Voltage: 9.04
CF Serial Number: 2015-004		Main (QM1) <input checked="" type="checkbox"/> Trillium (QS1) <input checked="" type="checkbox"/>	Temp: 77
CF Size: 16GB		Clock (QC1) <input checked="" type="checkbox"/> Analog (QA1) <input checked="" type="checkbox"/>	Set Header: SS19
Number A2D files: 4		Erase housekeeping data (he1234) <input checked="" type="checkbox"/>	
Expected Data Size: 10GB-MSEED		Mount CF (FV): <input checked="" type="checkbox"/>	A2D Dat Files Found: 4
Logger Module # 14020		Current LBA static (L)? <input checked="" type="checkbox"/>	{ use multiple (L) commands }
BATTERY INFORMATION		Enable FPGA Reset Detect (W4,1): <input checked="" type="checkbox"/>	
Main Power Type: Alkaline Pro Battery 9.71V		Save Mission to EEPROM (ZL): <input checked="" type="checkbox"/>	
Quantity: 3xProBat ALK Date checked: 8/26/16		Display Mission (X20000): <input checked="" type="checkbox"/>	Verify Mission matches expected: <input checked="" type="checkbox"/>
Clock Pack Type: Alkaline Energizer 3.23V		Initialize Sample Rate and Gain (e.g. a50,1,1,1,64): <input checked="" type="checkbox"/>	
Quantity: 2D Energizer Date checked: 8/26/16		Sample Rate: 200	# days A2D recording: 55.3
Anticipated Duration: 60 days		Gains: CH1 64 CH2 64 CH3 64 CH4 16	
Notes:		A2D Check {1st two char.}: (M1): <input checked="" type="checkbox"/> (M2): <input checked="" type="checkbox"/> (M3): <input checked="" type="checkbox"/> (M4): <input checked="" type="checkbox"/>	
		Values changing on all channels @ appropriate rate? <input checked="" type="checkbox"/>	
		2Clock Sync Time (U): 2016:297:19:31:00	TFOM: 4
DEPLOYMENT INFORMATION		SYS Minutes: 0	CLK Minutes: 0
Date: 2016:298	By: MR6	Diff by ~1: <input checked="" type="checkbox"/>	
Data Logger: 13015/BS16-023		System TAG (PS): 2016:297:19:33:00	<del>0800 48</del>
Acoustics: 69		Clock TAG (PC): 2016:297:19:38:59	9999908
Frame: F41		Type "D" To be sure clocks zero out: <input checked="" type="checkbox"/>	
Float: M625		*** Start Mission (ZR): <input checked="" type="checkbox"/> ***	
Radio: NR36		RECOVERY INFORMATION	
Strobe: NS41		YYYY:JD 2016:338	By: MR6
Geophone: OBS10-6P63		(V) Voltage: 2.35	Temp: 58.5
Hydrophone (/DPG): OBS15-01		FPGA Not Reset (R0): <input checked="" type="checkbox"/>	{ If reset DO NOT Click End Logging }
Deploy Time: 2016:298:05:17		LBA Incrementing by # chaps (L): <input checked="" type="checkbox"/>	{ use multiple (L) commands }
Acoustic Disabled <input checked="" type="checkbox"/>		End Logging (T1234): <input checked="" type="checkbox"/>	
Relocation Survey [Y/N/NA]		Last Sector: 23303306	# Sectors: 22223298
REL LAT Dec°:		Save Time TAG (u): 2016:338:07:58:00	TFOM: 4
REL LON Dec°:		** System TAG (PS): 2016:338:07:58:59	8826855
		** Drift {based on 'PS' command results}: -0.1173145	
		Clock TAG (PC): 2016:338:08:00:59	8827036
		Save Housekeeping to CF (HS): <input checked="" type="checkbox"/>	

NOTES:

A2D Gain Verification  
64.64, 64.16 ✓

LAT - 19.040085  
LON - 70.905283

BS16-023



BUG- ELECTRONICS CHECKLIST		Cruise ID: MGL1610	Site ID: SS18
Instrument Type: (SP) LP ABA FLIP		Mission File: Trehu_deploy.txt	LAT (Dec°): 19° 11.016004
LAB CHECKOUT		IRIS ID: 16-2, Network Code: XW	LON (Dec°): 70° 53.538792
Date: 8/23/16 By: Sean McPeak	DEPLOYMENT SETUP		Water Depth (M): 1520
LOGGER INFORMATION		YYYY:JD 2016:298 By: MR6	Acoustic Unit #: 58
Logger Endcap #: 13018	Power Relays:	(V) Voltage: 9.09	Temp: 89.6
CF Serial Number: 2015-018	Main (QM1) [✓] Trillium (QS1) [✓]	Set Header: SS18	
CF Size: 32GB	Clock (QC1) [✓] Analog (QA1) [✓]		
Number A2D files: 5	Erase housekeeping data (he1234) [✓]		
Expected Data Size: 10GB - m SEED	Mount CF (FV): [✓]	A2D Dat Files Found: 5	
Logger Module #: 14010	Current LBA static (L)?: [✓] 1079203 { use multiple (L) commands }		
BATTERY INFORMATION		Enable FPGA Reset Detect (W4,1): [✓]	
Main Power Type: Alkaline Pro Battery	Save Mission to EEPROM (ZL): [✓]		
Quantity: <del>48D</del> 9.76V Date checked: 8/23/16	Display Mission (X20000): [✓]	Verify Mission matches expected: [✓]	
Clock Pack Type: Alkaline Energizer	Initialize Sample Rate and Gain (e.g. a50,1,1,1,64): [✓]		
Quantity: 2D 3.23V Date checked: 8/23/16	Sample Rate: 200	# days A2D recording: 60.9	
Anticipated Duration: 60 days	Gains: CH1 64 CH2 64 CH3 64 CH4 16		
Notes:	A2D Check {1st two char.}: (M1): [✓] (M2): [✓] (M3): [✓] (M4): [✓]		
	Values changing on all channels @ appropriate rate? [✓]		
	Clock Sync Time (U): 2016:298:02:01:00	TFOM: 4	
DEPLOYMENT INFORMATION		SYS Minutes: 0 CLK Minutes: 0	Diff by ~1: [✓]
Date: 2016:298 By: MR6	System TAG (PS): 2016:298:02:01:59.9999988		
Data Logger: 13018/B16-010	Clock TAG (PC): 2016:298:02:02:59.9999988		
Acoustics: 50	Type "D" To be sure clocks zero out: [✓]		
Frame: F66	*** Start Mission (ZR): [✓] ***		
Float: M613	RECOVERY INFORMATION		YYYY:JD 2016:338 By: EA
Radio: NR08	(V) Voltage: 7.35	Temp: 68.8 F	
Strobe: NS50	FPGA Not Reset (R0): [✓]	{ If reset DO NOT Click End Logging }	
Geophone: OBS10-6P66	LBA Incrementing by # chans (L): [✓]	{ use multiple (L) commands }	
Hydrophone (/DPG): OBS10-HYD03	End Logging (T1234): [✓]		
Deploy Time: 2016:298:06:29	Last Sector: 23196 236	# Sectors: 22117034	
Acoustic Disabled [✓]	Save Time TAG (u): 2016:338:09:47:00	TFOM: 4	
	** System TAG (PS): 2016:338:09:48:00.0820744		
Relocation Survey [Y/N/NA]	** Drift {based on 'PS' command results}: 0.0820744		
REL LAT Dec°:	Clock TAG (PC): 2016:338:09:49:00.0820997		
REL LON Dec°:	Save Housekeeping to CF (HS): [✓]		

NOTES:

Set SA2D Daughter Bd Gains ✓  
 2 64, 64, 64, 16

LAT -19.18360  
 LON -78.892313

BS16-010





BUG- ELECTRONICS CHECKLIST		Cruise ID: MGL1610	Site ID: SS17
Instrument Type: (SP) LP ABA FLIP		Mission File: Trehu_deploy.txt	LAT (Dec°): -19.30659
LAB CHECKOUT		IRIS ID: 16-2, Network Code: XW	LON (Dec°): -70.87024
Date: 8/23/16 By: Sean McPeak		DEPLOYMENT SETUP	Water Depth (M): 980
LOGGER INFORMATION	YYYY:JD 2016:298 By: EA		Acoustic Unit #: 105
Logger Endcap # 13004	Power Relays:		(V) Voltage: 9.29
CF Serial Number: 2008-510	Main (QM1) [✓] Trillium (QS1) [✓]		Temp: 71.9
CF Size: 16GB	Clock (QC1) [✓] Analog (QA1) [✓]		Set Header: SS17
Number A2D files: 4	Erase housekeeping data (he1234) [✓]		
Expected Data Size: 10GB-MSEED	Mount CF (FV): [✓]	A2D Dat Files Found: 4	
Logger Module # 14012	Current LBA static (L)? [✓] 1079909	{ use multiple (L) commands }	
BATTERY INFORMATION	Enable FPGA Reset Detect (W4,1): [✓]		
Main Power Type: Alkaline Pro Battery	Save Mission to EEPROM (ZL): [✓]		
Quantity: 3xProBat ALK Date checked: 8/24/16	Display Mission (X20000): [✓]	Verify Mission matches expected: [✓]	
Clock Pack Type: Alkaline Energizer	Initialize Sample Rate and Gain (e.g. a50,1,1,1,64): [✓]		
Quantity: 2D Energizer Date checked: 8/24/16	Sample Rate: 200	# days A2D recording: 55.3	
Anticipated Duration: 60 days	Gains: CH1 64 CH2 64 CH3 64 CH4 16		
Notes:	A2D Check {1st two char.}: (M1): ✓ (M2): ✓ (M3): ✓ (M4): ✓		
	Values changing on all channels @ appropriate rate? [✓]		
	Clock Sync Time (U): 2016:298:11:55:00	TFOM: 4	
DEPLOYMENT INFORMATION	SYS Minutes: 0	CLK Minutes: 0	Diff by ~1: [✓]
Date: 2016:298 By: EA	System TAG (PS): 2016:298:11:55:59.9999661		
Data Logger: BS16-014	Clock TAG (PC): 2016:298:11:56:59.9999952		
Acoustics: 105	Type "D" To be sure clocks zero out: [✓] AT SYNC		
Frame: F 98	*** Start Mission (ZR): [✓] ***		
Float: MG 20	RECOVERY INFORMATION	YYYY:JD 2016:338 By: EA	
Radio: Aeos	(V) Voltage: 7.57V	Temp: 61.8F	
Strobe: NS 34	FPGA Not Reset (R0): [✓]	{ If reset DO NOT Click End Logging }	
Geophone: OBS15-GPG	LBA Incrementing by # chans (L): [✓]	{ use multiple (L) commands }	
Hydrophone (/DPG): OBS18-HYD 7	End Logging (T1234): [✓]		
Deploy Time: 298:13:37:00	Last Sector: 23081514	# Sectors: 21921606	
Acoustic Disabled [✓]	Save Time TAG (u): 2016:338:11:08:00	TFOM: 4	
	** System TAG (PS): 2016:338:11:08:59.8810205		
Relocation Survey [Y/N/NA]	** Drift {based on 'PS' command results}: -0.1189795		
REL LAT Dec°:	Clock TAG (PC): 2016:338:11:09:59.8810588		
REL LON Dec°:	Save Housekeeping to CF (HS): [✓]		

NOTES:  
 A2D Gains Verified  
 64, 64, 64, 16 ✓

revised 19 Aug 2016  
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BUG- ELECTRONICS CHECKLIST		Cruise ID: MGL1610	Site ID: SS36
Instrument Type: (SP) LP ABA FLIP		Mission File: Trehu_deploy.txt	LAT (Dec°): -19.34940
LAB CHECKOUT		IRIS ID: 16-2, Network Code: XW	LON (Dec°): -71.00435
Date: 8/23/16	By: Sean McPeak	DEPLOYMENT SETUP	
LOGGER INFORMATION		YYYY:JD 2016:298	By: EA
Logger Endcap # 13024		Power Relays:	(V) Voltage: 9.12
CF Serial Number: 2015-002		Main (QM1) <input checked="" type="checkbox"/> Trillium (QS1) <input checked="" type="checkbox"/>	Temp: 72.5
CF Size: 16GB		Clock (QC1) <input checked="" type="checkbox"/> Analog (QA1) <input checked="" type="checkbox"/>	Set Header: SS36
Number A2D files: 4		Erase housekeeping data (he1234) <input checked="" type="checkbox"/>	
Expected Data Size: 10GB-MSEED		Mount CF (FV): <input checked="" type="checkbox"/>	A2D Dat Files Found: 4
Logger Module # 13005		Current LBA static (L)?: <input checked="" type="checkbox"/> 1079909	{ use multiple (L) commands }
BATTERY INFORMATION		Enable FPGA Reset Detect (W4,1): <input checked="" type="checkbox"/>	
Main Power Type: Alkaline Pro Battery 9.75V		Save Mission to EEPROM (ZL): <input checked="" type="checkbox"/>	
Quantity: 3xProBat ALK Date checked: 8/25/16		Display Mission (X20000): <input checked="" type="checkbox"/>	Verify Mission matches expected: <input checked="" type="checkbox"/>
Clock Pack Type: Alkaline Energizer 3.23V		Initialize Sample Rate and Gain (e.g. a50,1,1,1,64): <input checked="" type="checkbox"/>	
Quantity: 2D Energizer Date checked: 8/25/16		Sample Rate: 200	# days A2D recording: 55.3
Anticipated Duration: 60 days		Gains: CH1 64 CH2 64 CH3 64 CH4 16	
Notes:		A2D Check {1st two char.}: (M1): <input checked="" type="checkbox"/> (M2): <input checked="" type="checkbox"/> (M3): <input checked="" type="checkbox"/> (M4): <input checked="" type="checkbox"/>	
		Values changing on all channels @ appropriate rate? <input checked="" type="checkbox"/>	
		ZClock Sync Time (U): 2016:298:13:05:00	TFOM: 4
DEPLOYMENT INFORMATION		SYS Minutes: 1	CLK Minutes: 1
Date: 2016:298	By: EA	Diff by ~1: <input checked="" type="checkbox"/>	
Data Logger: BS16-021		System TAG (PS): 2016:298:13:07:00.0000391	
Acoustics: 115		Clock TAG (PC): 2016:298:13:08:00.0000045	
Frame: F46		Type "D" To be sure clocks zero out: <input checked="" type="checkbox"/> AT SYNC	
Float: M638		*** Start Mission (ZR): <input checked="" type="checkbox"/> ***	
Radio: NR 74		RECOVERY INFORMATION	
Strobe: NS 49		YYYY:JD 2016:338	By: EA
Geophone: OBS18-GP20		(V) Voltage: 7.34V	Temp: 56.0 F
Hydrophone (1 DPG): OBS18-14D 36		FPGA Not Reset (R0): <input checked="" type="checkbox"/>	{ If reset DO NOT Click End Logging }
Deploy Time: 298:14:41:00		LBA Incrementing by # chans (L): <input checked="" type="checkbox"/>	{ use multiple (L) commands }
Acoustic Disabled <input checked="" type="checkbox"/>		End Logging (T1234): <input checked="" type="checkbox"/>	
Relocation Survey [Y/N/NA]		Last Sector: 23012626	# Sectors: 21932718
REL LAT Dec°:		Save Time TAG (u): 2016:338:12:47:00	TFOM: 4
REL LON Dec°:		** System TAG (PS): 2016:338:12:47:59.9583024	
		** Drift {based on 'PS' command results}: -0.0416776	
		Clock TAG (PC): 2016:338:12:48:59.9583055	
		Save Housekeeping to CF (HS): <input checked="" type="checkbox"/>	

NOTES:

top SA2D Gains Verified  
64, 64, 64, 16 ✓

revised 19 Aug 2016

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BUG- ELECTRONICS CHECKLIST		Cruise ID: MGL1610	Site ID: SS35
Instrument Type (SP) LP ABA FLIP		Mission File: Trehu_deploy.txt	LAT (Dec°): -19.40318
LAB CHECKOUT		IRIS ID: 16-2, Network Code: XW	LON (Dec°): -71.16304
Date: 8/23/16	By: Sean McPeak	DEPLOYMENT SETUP	
LOGGER INFORMATION		YYYY:JD 2016:298	By: EA
Logger Endcap # 13028		Power Relays:	(V) Voltage: 9.16
CF Serial Number: 2008-639		Main (QM1) <input checked="" type="checkbox"/> Trillium (QS1) <input checked="" type="checkbox"/>	Temp: 72.5
CF Size: 16GB		Clock (QC1) <input checked="" type="checkbox"/> Analog (QA1) <input checked="" type="checkbox"/>	Set Header: SS35
Number A2D files: 4		Erase housekeeping data (he1234) <input checked="" type="checkbox"/>	
Expected Data Size: 10GB-mSEED		Mount CF (FV): <input checked="" type="checkbox"/>	A2D Dat Files Found: 4
Logger Module # 13020		Current LBA static (L)?: <input checked="" type="checkbox"/> 1079909 { use multiple (L) commands }	
BATTERY INFORMATION		Enable FPGA Reset Detect (W4,1): <input checked="" type="checkbox"/>	
Main Power Type: Alkaline Pro Battery 9.74V		Save Mission to EEPROM (ZL): <input checked="" type="checkbox"/>	
Quantity: 3xProBat ALK Date checked: 8/25/16		Display Mission (X20000): <input checked="" type="checkbox"/>	Verify Mission matches expected: <input checked="" type="checkbox"/>
Clock Pack Type: Alkaline Energizer 3.23V		Initialize Sample Rate and Gain (e.g. a50,1,1,1,64): <input checked="" type="checkbox"/>	
Quantity: 2D Energizer Date checked: 8/25/16		Sample Rate: 200	# days A2D recording: 55.3
Anticipated Duration: 60 days		Gains: CH1 64 CH2 64 CH3 64 CH4 16	
Notes:		A2D Check {1st two char.}: (M1): <input checked="" type="checkbox"/> (M2): <input checked="" type="checkbox"/> (M3): <input checked="" type="checkbox"/> (M4): <input checked="" type="checkbox"/>	
		Values changing on all channels @ appropriate rate? <input checked="" type="checkbox"/>	
		2Clock Sync Time (U): 2016:298:16:36:00	TFOM: 4
DEPLOYMENT INFORMATION		SYS Minutes: 0	CLK Minutes: 0
Date: 298:	By: EA	Diff by ~1: <input checked="" type="checkbox"/>	
Data Logger: BS16-022		System TAG (PS): 2016:298:16:36:58.9999838	
Acoustics: 73		Clock TAG (PC): 2016:298:16:38:00.0000045	
Frame: F35		Type "D" To be sure clocks zero out: <input checked="" type="checkbox"/> AFTERK SYNC	
Float: M636		*** Start Mission (ZR): <input checked="" type="checkbox"/> ***	
Radio: NR16		RECOVERY INFORMATION	
Strobe: NS61		YYYY:JD 2016:338	By: EA
Geophone: OBS10-GP28		(V) Voltage: 7.36	Temp: 71.1 F
Hydrophone (/DPG): OBS10-HYD 29		FPGA Not Reset (R0): <input checked="" type="checkbox"/>	{ If reset DO NOT Click End Logging }
Deploy Time: 2016:298:22:36		LBA Incrementing by # chans (L): <input checked="" type="checkbox"/>	{ use multiple (L) commands }
Acoustic Disabled <input checked="" type="checkbox"/>		End Logging (T1234): <input checked="" type="checkbox"/>	
Relocation Survey [Y/N/NA]		Last Sector: 22999766	# Sectors: 21919858
REL LAT Dec°:		Save Time TAG (u): 2016:338:15:45:00	TFOM: 4
REL LON Dec°:		** System TAG (PS): 2016:338:15:45:59.9643146	
		** Drift {based on 'PS' command results}: -0.0356854	
		Clock TAG (PC): 2016:338:15:46:59.9643394	
		Save Housekeeping to CF (HS): <input checked="" type="checkbox"/>	

NOTES:

Setup A2D Gain Verification  
264,64,64,16 ✓

revised 19 Aug 2016

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BUG- ELECTRONICS CHECKLIST		Cruise ID: MGL1610	Site ID: SS38
Instrument Type: (SP) LP ABA FLIP		Mission File: Trehu_deploy.txt	LAT (Dec°): -19.55237
LAB CHECKOUT		IRIS ID: 16-2, Network Code: XW	LON (Dec°): -71.13571
Date: 8/23/16 By: Sean McPeak		DEPLOYMENT SETUP	Water Depth (M): 3634
LOGGER INFORMATION	YYYY:JD 2016:300 By: EA		Acoustic Unit #: 24
Logger Endcap # 13043	Power Relays:		(V) Voltage: 9.18
CF Serial Number: 2008-663	Main (QM1) [✓] Trillium (QS1) [✓]		Temp: 70.7
CF Size: 16GB	Clock (QC1) [✓] Analog (QA1) [✓]		Set Header: SS38
Number A2D files: 4	Erase housekeeping data (he1234) [✓]		
Expected Data Size: 10GB-MSEED	Mount CF (FV): [✓]	A2D Dat Files Found: 4	
Logger Module # 13018	Current LBA static (L)?: [✓] 1079909 { use multiple (L) commands }		
BATTERY INFORMATION	Enable FPGA Reset Detect (W4,1): [✓]		
Main Power Type: Alkaline Pro Battery	Save Mission to EEPROM (ZL): [✓]		
Quantity: 3xProBat ALK Date checked: 8/25/16	Display Mission (X20000): [✓]	Verify Mission matches expected: [✓]	
Clock Pack Type: Alkaline Energizer	Initialize Sample Rate and Gain (e.g. a50,1,1,1,64): [✓]		
Quantity: 2D Energizer Date checked: 8/25/16	Sample Rate: 2000	# days A2D recording: 55.3	
Anticipated Duration: 60 days	Gains: CH1 64 CH2 64 CH3 64 CH4 16		
Notes:	A2D Check {1st two char.}: (M1): ✓ (M2): ✓ (M3): ✓ (M4): ✓		
	Values changing on all channels @ appropriate rate? [✓]		
	3Clock Sync Time (U): 2016:300:16:34:00 TFOM: 4		
DEPLOYMENT INFORMATION	SYS Minutes: 0 CLK Minutes: 0 Diff by ~1: [✓]		
Date: 2016:300 By: EA	System TAG (PS): 2016:300:16:35:00.0000008		
Data Logger: BS16-018	Clock TAG (PC): 2016:300:16:35:59.9999994		
Acoustics: 24	Type "D" To be sure clocks zero out: [✓] ART Sync		
Frame: F48	*** Start Mission (ZR): [✓] ***		
Float: MG12	RECOVERY INFORMATION	YYYY:JD 2016:338 By:	
Radio: NR71	(V) Voltage: 7.47V	Temp: 61.9	
Strobe: NS21	FPGA Not Reset (R0): [✓]	{ If reset DO NOT Click End Logging }	
Geophone: OBS18-GP31	LBA Incrementing by # chans (L): [✓]	{ use multiple (L) commands }	
Hydrophone (/DPG): OBS18-H4042	End Logging (T1234): [✓]		
Deploy Time: 2016:300:17:53:00	Last Sector: 21961222 # Sectors: 2088314		
Acoustic Disabled [✓]	Save Time TAG (u): 2016:338:18:16:00 TFOM: 4		
	** System TAG (PS): 2016:338:18:17:00.0164613		
Relocation Survey [Y/N/NA]	** Drift (based on 'PS' command results): 0.0164613		
REL LAT Dec°:	Clock TAG (PC): 2016:338:18:18:00.0164400		
REL LON Dec°:	Save Housekeeping to CF (HS): [✓]		

NOTES:

Setup { A2D Gain Verification }  
 { 64, 64, 64, 16 } ✓

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BUG- ELECTRONICS CHECKLIST		Cruise ID: MGL1610	Site ID: 5539
Instrument Type: (SP) LP ABA FLIP		Mission File: Trehu_deploy.txt	LAT (Dec°): -19.49668
LAB CHECKOUT		IRIS ID: 16-2, Network Code: XW	LON (Dec°): -70.98554
Date: 8/23/16 By: Sean M. Park		DEPLOYMENT SETUP	Water Depth (M): 2412
LOGGER INFORMATION	YYYY:JD 2016:300 By: EA		Acoustic Unit #: 3
Logger Endcap #: 13026		Power Relays:	(V) Voltage: 9.85
CF Serial Number: 2008-621		Main (QM1) [X] Trillium (QS1) [X]	Temp: 32
CF Size: 16GB		Clock (QC1) [X] Analog (QA1) [X]	Set Header: 5539
Number A2D files: 4		Erase housekeeping data (he1234) [X]	
Expected Data Size: 10GB-mSEED		Mount CF (FV): [X]	A2D Dat Files Found: 4
Logger Module #: 14001		Current LBA static (L)?: [X] 1879909 {use multiple (L) commands}	
BATTERY INFORMATION		Enable FPGA Reset Detect (W4,1): [X]	
Main Power Type: Alkaline Pro Battery		Save Mission to EEPROM (ZL): [X]	
Quantity: 480 9.77V Date checked: 8/23/16		Display Mission (X20000): [X]	Verify Mission matches expected: [X]
Clock Pack Type: Alkaline Energizer		Initialize Sample Rate and Gain (e.g. a50,1,1,1,64): [ ]	
Quantity: 2D 3.23V Date checked: 8/23/16		Sample Rate: 2000	# days A2D recording: 55.3
Anticipated Duration: 60 days		Gains: CH1 64 CH2 64 CH3 64 CH4 16	
Notes:		A2D Check {1st two char.}: (M1): [X] (M2): [X] (M3): [X] (M4): [X]	
		Values changing on all channels @ appropriate rate? [X]	
		3Clock Sync Time (U): 2016:300:17:44:00 TFOM: 4	
DEPLOYMENT INFORMATION		SYS Minutes: 0 CLK Minutes: 0 Diff by ~1: [X]	
Date: 2016:300 By: EA		System TAG (PS): 2016:300:17:45:00, 00000022	
Data Logger: BS16-013		Clock TAG (PC): 2016:300:17:46:00, 000000503	
Acoustics: 3		Type "D" To be sure clocks zero out: [X] AFT Sync	
Frame: F60		*** Start Mission (ZR): [ ] ***	
Float: M645		RECOVERY INFORMATION	YYYY:JD 2016:338 By: EA
Radio: NR 88		(V) Voltage: 7.39 [X]	Temp: 60.1 F
Strobe: NS 86		FPGA Not Reset (R0): [X]	{If reset DO NOT Click End Logging}
Geophone: 03318 8P09		LBA Incrementing by # chans (L): [X]	{use multiple (L) commands}
Hydrophone (/DPG): 03318 Hyd 48		End Logging (T1234): [X]	
Deploy Time: 2016:300:18:57:00		Last Sector: 21983152	# Sectors: 20903250
Acoustic Disabled [X]		Save Time TAG (u): 2016:338:20:24:00 TFOM: 4	
		** System TAG (PS): 2016:338:20:24:59, 9763565	
		** Drift (based on 'PS' command results): -0.0236435	
Relocation Survey [Y/N/NA]		Clock TAG (PC): 2016:338:20:25:59, 9763620	
REL LAT Dec°:		Save Housekeeping to CF (HS): [X]	
REL LON Dec°:			

NOTES:

A2D Gains Verified  
 64, 64, 16 ✓

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BUG- ELECTRONICS CHECKLIST		Cruise ID: MGL1610	Site ID: 5538
Instrument Type: (SP) LP ABA FLIP		Mission File: Trehu_deploy.txt	LAT (Dec°): -19.70370
LAB CHECKOUT		IRIS ID: 16-2, Network Code: XW	LON (Dec°): -71.11348
Date: 8/23/16	By: Sean McPeak	DEPLOYMENT SETUP	
LOGGER INFORMATION		YYYY:JD 2016:300 By: EA	Water Depth (M): 4221
Logger Endcap #: 13007		Power Relays:	(V) Voltage: 9.04
CF Serial Number: 2015-017		Main (QM1) <input checked="" type="checkbox"/> Trillium (QS1) <input checked="" type="checkbox"/>	Temp: 204.8
CF Size: 32GB		Clock (QC1) <input checked="" type="checkbox"/> Analog (QA1) <input checked="" type="checkbox"/>	Set Header: 5530
Number A2D files: 5		Erase housekeeping data (he1234) <input checked="" type="checkbox"/>	
Expected Data Size: 10GB-MSEED		Mount CF (FV): <input checked="" type="checkbox"/>	A2D Dat Files Found: 5
Logger Module #: 13013		Current LBA static (L)?: <input checked="" type="checkbox"/> 1079203 { use multiple (L) commands }	
BATTERY INFORMATION		Enable FPGA Reset Detect (W4,1): <input checked="" type="checkbox"/>	
Main Power Type: Alkaline Pro Battery		Save Mission to EEPROM (ZL): <input checked="" type="checkbox"/>	
Quantity: 3xProBat ALK <sup>9.70V</sup> Date checked: 8/25/16		Display Mission (X20000): <input checked="" type="checkbox"/>	Verify Mission matches expected: <input checked="" type="checkbox"/>
Clock Pack Type: Alkaline Energizer		Initialize Sample Rate and Gain (e.g. a50,1,1,1,64): <input checked="" type="checkbox"/>	
Quantity: 2D Energizer <sup>3.25V</sup> Date checked: 8/25/16		Sample Rate: 200	# days A2D recording: 60.7
Anticipated Duration: 60 days		Gains: CH1 64 CH2 64 CH3 64 CH4 16	
Notes:		A2D Check {1st two char.}: (M1): <input checked="" type="checkbox"/> (M2): <input checked="" type="checkbox"/> (M3): <input checked="" type="checkbox"/> (M4): <input checked="" type="checkbox"/>	
		Values changing on all channels @ appropriate rate? <input checked="" type="checkbox"/>	
		3Clock Sync Time (U): 2016:300:12:44:00	TFOM: 4
DEPLOYMENT INFORMATION		SYS Minutes: 0	CLK Minutes: 0
Date: 2016:300 By: EA		Diff by ~1: <input checked="" type="checkbox"/>	
Data Logger: BS16-019		System TAG (PS): 2016:300:12:46:00.0000060	
Acoustics: 09 96		Clock TAG (PC): 2016:300:12:46:59.9999995	
Frame: F39		Type "D" To be sure clocks zero out: <input checked="" type="checkbox"/> AFT Sync	
Float: MGS0		*** Start Mission (ZR): <input checked="" type="checkbox"/> ***	
Radio: NR 705		RECOVERY INFORMATION	
Strobe: NJ 16		YYYY:JD 2016:339 By: MRB	
Geophone: OBS10 GP 46		(V) Voltage: 7.34	Temp: 21.3-70.3
Hydrophone (1 DPG): OBS10 HYD 31		FPGA Not Reset (R0): <input checked="" type="checkbox"/>	{ If reset DO NOT Click End Logging }
Deploy Time: 2016:300:16:53:00		LBA Incrementing by # chans (L): <input checked="" type="checkbox"/>	{ use multiple (L) commands }
Acoustic Disabled <input checked="" type="checkbox"/>		End Logging (T1234): <input checked="" type="checkbox"/>	
Relocation Survey [ Y / N / NA ]		Last Sector: 22191352	# Sectors: 2112150
REL LAT Dec°:		Save Time TAG (u): 2016:339:00:32:00	TFOM: 4
REL LON Dec°:		** System TAG (PS): 2016:339:00:32:59.9246145	
		** Drift {based on 'PS' command results}: -0.0753855	
		Clock TAG (PC): 2016:399:00:33:59.9246105	
		Save Housekeeping to CF (HS): <input checked="" type="checkbox"/>	

NOTES:

Setup { A2D Gain Verification  
264,64,64,16 ✓

revised 19 Aug 2016

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<b>BUG- ELECTRONICS CHECKLIST</b>		Cruise ID: <b>MGL1610</b>	Site ID: <b>SS43</b>
Instrument Type: <b>(SP)</b> LP ABA FLIP		Mission File: Trehu_deploy.txt	LAT (Dec°): <b>-19.79281</b>
<b>LAB CHECKOUT</b>		IRIS ID: 16-2, Network Code: XW	LON (Dec°): <b>-78.94339</b>
Date: 8/23/16 By: Sean McPeak		<b>DEPLOYMENT SETUP</b>	
<b>LOGGER INFORMATION</b>		YYYY:JD <b>2016:300</b> By: <b>EA</b>	Water Depth (M): <b>3070</b>
Logger Endcap # <b>13027</b>	Power Relays:	Acoustic Unit #: <b>19</b>	
CF Serial Number: <b>2008-545</b>	Main (QM1) <input checked="" type="checkbox"/> Trillium (QS1) <input checked="" type="checkbox"/>	(V) Voltage: <b>9.26</b>	
CF Size: <b>16GB</b>	Clock (QC1) <input checked="" type="checkbox"/> Analog (QA1) <input checked="" type="checkbox"/>	Temp: <b>70.7</b>	
Number A2D files: <b>4</b>	Erase housekeeping data (he1234) <input checked="" type="checkbox"/>	Set Header: <b>SS43</b>	
Expected Data Size: <b>10GB-MSEED</b>	Mount CF (FV): <input checked="" type="checkbox"/>	A2D Dat Files Found: <b>4</b>	
Logger Module # <b>14017</b>	Current LBA static (L)?: <input checked="" type="checkbox"/> <b>1079909</b> { use multiple (L) commands }		
<b>BATTERY INFORMATION</b>		Enable FPGA Reset Detect (W4,1): <input checked="" type="checkbox"/>	
Main Power Type: Alkaline Pro Battery <b>9.70V</b>	Save Mission to EEPROM (ZL): <input checked="" type="checkbox"/>		
Quantity: 3xProBat ALK Date checked: <b>8/26/16</b>	Display Mission (X20000): <input checked="" type="checkbox"/>	Verify Mission matches expected: <input checked="" type="checkbox"/>	
Clock Pack Type: Alkaline Energizer <b>3.23V</b>	Initialize Sample Rate and Gain (e.g. a50,1,1,1,64): <input checked="" type="checkbox"/>		
Quantity: 2D Energizer Date checked: <b>8/26/16</b>	Sample Rate: <b>200</b>	# days A2D recording: <b>55.3</b>	
Anticipated Duration: 60 days	Gains: CH1 <b>64</b> CH2 <b>64</b> CH3 <b>64</b> CH4 <b>16</b>		
Notes:	A2D Check {1st two char.}: (M1): <input checked="" type="checkbox"/> (M2): <input checked="" type="checkbox"/> (M3): <input checked="" type="checkbox"/> (M4): <input checked="" type="checkbox"/>	Values changing on all channels @ appropriate rate? <input checked="" type="checkbox"/>	
	3Clock Sync Time (U): <b>2016:300:11:29:00</b> TFOM: <b>4</b>		
<b>DEPLOYMENT INFORMATION</b>		SYS Minutes: <b>0</b> CLK Minutes: <b>0</b> Diff by ~1: <input checked="" type="checkbox"/>	
Date: <b>2016:300</b> By: <b>EA</b>	<b>System TAG (PS): 2016:300:11:30:00.0000030</b>		
Data Logger: <b>BS16-025</b>	Clock TAG (PC): <b>2016:300:11:30:59.9999971</b>		
Acoustics: <b>19</b>	Type "D" To be sure clocks zero out: <input checked="" type="checkbox"/> <b>AFT SYNC</b>		
Frame: <b>F25</b>	*** Start Mission (ZR): <input checked="" type="checkbox"/> ***		
Float: <b>MG47</b>	<b>RECOVERY INFORMATION</b>		YYYY:JD <b>2016:339</b> By: <b>EA</b>
Radio: <b>NR24</b>	(V) Voltage: <b>7.52V</b>		Temp: <b>53.4F</b>
Strobe: <b>NS17</b>	FPGA Not Reset (R0): <input checked="" type="checkbox"/>		{ if reset <b>DO NOT</b> Click End Logging }
Geophone: <b>OBS10-GP44</b>	LBA Incrementing by # chans (L): <input checked="" type="checkbox"/>		{ use multiple (L) commands }
Hydrophone (1/DPG): <b>OBS16-14D1</b>	End Logging (T1234): <input checked="" type="checkbox"/>		
Deploy Time: <b>2016:300:14:43:00</b>	Last Sector: <b>22466206</b>	# Sectors: <b>21386298</b>	
Acoustic Disabled <input checked="" type="checkbox"/>	Save Time TAG (u): <b>2016:339:11:17:00</b> TFOM: <b>4</b>		
	** System TAG (PS): <b>2016:339:11:17:59.9260074</b>		
Relocation Survey [ Y / N / NA ]	** Drift (based on 'PS' command results): <b>-0.0739926</b>		
REL LAT Dec°:	Clock TAG (PC): <b>2016:339:11:18:59.9260125</b>		
REL LON Dec°:	Save Housekeeping to CF (HS): <input checked="" type="checkbox"/>		

NOTES:

A2D Gain Verification  
64,64,64,16 ✓

LON: -78.94339

revised 19 Aug 2016  
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BUG- ELECTRONICS CHECKLIST		Cruise ID: MGL1610	Site ID: 5542
Instrument Type: (SP) LP ABA FLIP		Mission File: Trehu_deploy.txt	LAT (Dec°): -19.85016
LAB CHECKOUT		IRIS ID: 16-2, Network Code: XW	LON (Dec°): -71.09276
Date: 8/23/16 By: Sean McPeak		DEPLOYMENT SETUP	Water Depth (M): 4142
LOGGER INFORMATION		YYYY:JD 2016:300 By: EA	Acoustic Unit #: 103
Logger Endcap # 13013		Power Relays:	(V) Voltage: 9.25
CF Serial Number: 2008-529		Main (QM1) [✓] Trillium (QS1) [✓]	Temp: 73.4
CF Size: 16GB		Clock (QC1) [✓] Analog (QA1) [✓]	Set Header: 5542
Number A2D files: 4		Erase housekeeping data (he1234) [✓]	
Expected Data Size: 10 GB M SEED		Mount CF (FV): [✓]	A2D Dat Files Found: 4
Logger Module # 13026		Current LBA static (L)?: [✓] 1079909 {use multiple (L) commands}	
BATTERY INFORMATION		Enable FPGA Reset Detect (W4,1): [✓]	
Main Power Type: Alkaline Pro Battery 9.77V		Save Mission to EEPROM (ZL): [✓]	
Quantity: 3xProBat ALK Date checked: 8/27/16		Display Mission (X20000): [✓]	Verify Mission matches expected: [✓]
Clock Pack Type: Alkaline Energizer 3.25V		Initialize Sample Rate and Gain (e.g. a50,1,1,1,64): [✓]	
Quantity: 2D Energizer Date checked: 8/29/16		Sample Rate: 2000	# days A2D recording: 55.3
Anticipated Duration: 60 days		Gains: CH1 64 CH2 64 CH3 64 CH4 16	
Notes:		A2D Check {1st two char.}: (M1): [✓] (M2): [✓] (M3): [✓] (M4): [✓]	
		Values changing on all channels @ appropriate rate? [✓]	
		3 Clock Sync Time (U): 2016:300:12:10:00 TFOM: 4	
DEPLOYMENT INFORMATION		SYS Minutes: 0 CLK Minutes: 0 Diff by ~1: [✓]	
Date: 2016:300 By: EA		System TAG (PS): 2016:300:12:11:00.0000035	
Data Logger: BS16-027		Clock TAG (PC): 2016:300:12:12:00.0000018	
Acoustics: 103		Type "D" To be sure clocks zero-out: [✓] AFT Sync	
Frame: F111		*** Start Mission (ZR): [✓] ***	
Float: MGL6		RECOVERY INFORMATION	YYYY:JD 2016:339 By: EA
Radio: NR 27		(V) Voltage: 7.48V	Temp: 59.4 F
Strobe: NS 66		FPGA Not Reset (R0): [✓]	{If reset DO NOT Click End Logging}
Geophone: OBSID-GP55		LBA Incrementing by # chans (L): [✓]	{use multiple (L) commands}
Hydrophone (1/DPG): OBSID-H4D 27		End Logging (T1234): [✓]	
Deploy Time: 2016:300:15:52:00		Last Sector: 22508778	# Sectors: 21428970
Acoustic Disabled [✓]		Save Time TAG (u): 2016:339:13:50:00 TFOM: 4	
		** System TAG (PS): 2016:339:13:50:59.9964290	
Relocation Survey [Y/N/NA]		** Drift (based on 'PS' command results): -0.0035710	
REL LAT Dec°:		Clock TAG (PC): 2016:339:13:51:59.9964490	
REL LON Dec°:		Save Housekeeping to CF (HS): [✓]	

NOTES:

Setup { A2D Gain Verification }  
64, 64, 64, 16 ✓

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BUG- ELECTRONICS CHECKLIST		Cruise ID: MGL1610	Site ID: 5529
Instrument Type: (SP) LP ABA FLIP		Mission File: Trehu_deploy.txt	LAT (Dec°): -19.75888
<b>LAB CHECKOUT</b>		IRIS ID: 16-2, Network Code: XW	LON (Dec°): -71.22417
Date: 8/23/16	By: Sean McPeak	<b>DEPLOYMENT SETUP</b>	
<b>LOGGER INFORMATION</b>		YYYY:JD 2016:298	By: MRB
Logger Endcap # 13002		Power Relays:	(V) Voltage: 9.11
CF Serial Number: 2008-514		Main (QM1) [✓] Trillium (QS1) [✓]	Temp: 72.5
CF Size: 16GB		Clock (QC1) [✓] Analog (QA1) [✓]	Set Header: 5529
Number A2D files: 4		Erase housekeeping data (he1234) [✓]	
Expected Data Size: 10GB -mspeed		Mount CF (FV): [✓]	A2D Dat Files Found: 4
Logger Module # 13036		Current LBA static (L)?: [✓] 1079909	{ use multiple (L) commands }
<b>BATTERY INFORMATION</b>		Enable FPGA Reset Detect (W4,1): [✓]	
Main Power Type: Alkaline Pro Battery		Save Mission to EEPROM (ZL): [✓]	
Quantity: 3xProBat ALK Date checked: 8/25/16		Display Mission (X20000): [✓]	Verify Mission matches expected: [✓]
Clock Pack Type: Alkaline Energizer 8/25/16		Initialize Sample Rate and Gain (e.g. a50,1,1,1,64): [✓]	
Quantity: 2D Energizer Date checked:		Sample Rate: 200	# days A2D recording: 55.3
Anticipated Duration: 60 days		Gains: CH1 64 CH2 64 CH3 64 CH4 16	
Notes:		A2D Check {1st two char.}: (M1): ✓ (M2): ✓ (M3): ✓ (M4): ✓	
		Values changing on all channels @ appropriate rate? [✓]	
		Clock Sync Time (U): 2016:298:23:41:00	TFOM: 4
<b>DEPLOYMENT INFORMATION</b>		SYS Minutes: 0	CLK Minutes: 0
Date: 2016:299	By: MRB	Diff by ~1: [✓]	
Data Logger: BS16-020		System TAG (PS): 2016:298:23:42:00.0000005	
Acoustics: 58		Clock TAG (PC): 2016:298:23:42:59.9999986	
Frame: F27		Type "D" To be sure clocks zero out: [✓]	
Float: M606		*** Start Mission (ZR): [✓] ***	
Radio: NR55		<b>RECOVERY INFORMATION</b>	
Strobe: NS56		YYYY:JD 2016:339	By: EA
Geophone: OBS10-6P24		(V) Voltage: 7.36V	Temp: 55.8F
Hydrophone (/ DPG): 2002.06		FPGA Not Reset (R0): [✓]	{ if reset DO NOT Click End Logging }
Deploy Time: 2016:299:02:29		LBA Incrementing by # chans (L): [✓]	{ use multiple (L) commands }
Acoustic Disabled [✓]		End Logging (T1234): [✓]	
Relocation Survey [Y/N/NA]		Last Sector: 23405558	# Sectors: 22328650
REL LAT Dec°:		Save Time TAG (u): 2016:339:16:43:00	TFOM: 4
REL LON Dec°:		** System TAG (PS): 2016:339:16:43:59.6559489	
		** Drift {based on 'PS' command results}: -0.3440511	
		Clock TAG (PC): 2016:339:16:44:59.9999890	
		Save Housekeeping to CF (HS): [✓]	

NOTES:

Setup A2D Gain Verification  
264,64,64,16 ✓



<b>LC4x4- ELECTRONICS CHECKLIST</b>		Cruise ID: MGL1610	Site ID: <u>SS21A</u>
Instrument Type: SP 4x4		IRIS ID: 16-2, Network Code: XW	LAT (Dec°): <u>-20.31518</u>
<b>LAB CHECKOUT</b>		<b>DEPLOYMENT SETUP</b>	
Date: 20 Aug 2016 By: Sean		Date: <u>2016:307</u>	LON (Dec°): <u>-72.43816</u>
<b>LOGGER INFORMATION</b> <u>SP-117</u>		By: <u>MR6</u>	Water Depth (M): <u>4400</u>
CPU: <u>4708-021</u>		Software Version: <u>1.04K</u>	Acoustic Unit #: <u>80</u>
Seascan: <u>S/N 453</u>		<b>Sync Time With GPS:</b>	
A2D: <u>4708-17</u> Jumpers Check: <input checked="" type="checkbox"/>		<u>2016:307:05:53:00</u>	
Clock: <u>                    </u>		OBS Time OK?: <input checked="" type="checkbox"/>	TFOM: <u>4</u>
Power: <u>5107-045</u>		TAG Time OK?: <input checked="" type="checkbox"/>	
Backplane: <u>                    </u>		Wakeup Time: <u>2016:307:11:00:00</u>	
CF S/N (A): <u>2008-552</u> Size: <u>16GB</u>		# of Channels: <u>4</u>	Sample Rate: <u>200</u>
CF S/N (B):                      Size:		CH-0 (L28X) Gain: <u>64</u>	CONFIG SELECTION ↓ <u>N</u>
CF S/N (C):                      Size:		CH-1 (L28Y) Gain: <u>64</u>	
Expected Data Size: <u>10.46GB</u>		CH-2 (L28Z) Gain: <u>64</u>	
<b>BATTERY INFORMATION</b>		CH-3 (HYD) Gain: <u>16</u>	
Main Power Type: Alkaline Pro Battery		Header Comment: <u>SS21A</u>	
Quantity: <u>3xALK Pro Batt</u> Voltage: <u>9.77V</u>		Start Experiment: <input checked="" type="checkbox"/>	TAG OK?: <input checked="" type="checkbox"/>
Clock Pack Type: Alkaline Energizer		Clock Battery OK: <input checked="" type="checkbox"/>	Dessicant: <input checked="" type="checkbox"/>
Quantity: 2D Voltage: <u>3.25V</u>		PURGE 6"Hg: <input checked="" type="checkbox"/>	Seal Screw: <input checked="" type="checkbox"/>
Estimated Duration: 60 days			
<b>DEPLOYMENT INFORMATION</b>		<b>RECOVERY INFORMATION</b>	
Date: <u>2016:307</u> By:		Date: <u>2016:341</u> By: <u>MR6</u>	
Data Logger #: <u>117</u>		<b>OBS Time TAG (1st):</b>	
Acoustics #: <u>80</u>		<u>2016:341:00:43:59.6850820</u>	
Frame: <u>F58</u>		<b>OBS Time TAG (2nd):</b>	
Float: <u>M655</u>		<u>2016:341:00:44:59.6850771</u>	
Radio: <u>2000-48</u> On: [ ]		OBS Time OK?: [ ]	TFOM: <u>4</u>
Strobe: <u>NS19</u> On: [ ]		<b>Drift:</b>	
Geophone / Trillium <u>08510-6P33</u>		<u>-0.3149229</u>	
Hydrophone / DPG <u>08510-6P71</u>		Raw File Name:	
Deploy Time (GMT): <u>2016:307:07:34:00</u>			
Acoustic Disabled <input checked="" type="checkbox"/>			
Relocation Survey (Y / (NA))		REL LAT (Dec°):	REL LON (Dec°):

+ (A2D's) ✓  
 P (Sync+TAG) ✓



BUG- ELECTRONICS CHECKLIST		Cruise ID: MGL1610	Site ID: SS22 ✓
Instrument Type: (SP) LP ABA FLIP	Mission File: Trehu_deploy.txt		LAT (Dec°): -20.24737
LAB CHECKOUT		IRIS ID: 16-2, Network Code: XW	LON (Dec°): -72.29748
Date: 8/23/16	By: Sean McPeak	DEPLOYMENT SETUP	
LOGGER INFORMATION		YYYY:JD 2016:299	By: EA
Logger Endcap # SP205	Power Relays:	(V) Voltage: 9.15	
CF Serial Number: 2008-631	Main (QM1) <input checked="" type="checkbox"/> Trillium (QS1) <input checked="" type="checkbox"/>	Temp: 71.6	
CF Size: 16GB	Clock (QC1) <input checked="" type="checkbox"/> Analog (QA1) <input checked="" type="checkbox"/>	Set Header: SS22	
Number A2D files: 4	Erase housekeeping data (he1234) <input checked="" type="checkbox"/>		
Expected Data Size: 10GB-mSEED	Mount CF (FV): <input checked="" type="checkbox"/>	A2D Dat Files Found: 4	
Logger Module # 14016	Current LBA static (L)?: <input checked="" type="checkbox"/> 1879909 { use multiple (L) commands }		
BATTERY INFORMATION		Enable FPGA Reset Detect (W4,1): <input checked="" type="checkbox"/>	
Main Power Type: Alkaline Pro Battery	Save Mission to EEPROM (ZL): <input checked="" type="checkbox"/>		
Quantity: 3xProBat ALK Date checked: 8/24/16	Display Mission (X20000): <input checked="" type="checkbox"/>	Verify Mission matches expected: <input checked="" type="checkbox"/>	
Clock Pack Type: Alkaline Energizer	Initialize Sample Rate and Gain (e.g. a50,1,1,1,64): <input checked="" type="checkbox"/>		
Quantity: 2D Energizer Date checked: 8/24/16	Sample Rate: 200	# days A2D recording: 55.3	
Anticipated Duration: 60 days	Gains: CH1 64 CH2 64 CH3 64 CH4 16		
Notes:	A2D Check {1st two char.}: (M1): <input checked="" type="checkbox"/> (M2): <input checked="" type="checkbox"/> (M3): <input checked="" type="checkbox"/> (M4): <input checked="" type="checkbox"/>		
	Values changing on all channels @ appropriate rate? <input checked="" type="checkbox"/>		
	2Clock Sync Time (U): 2016:299:10:52:00 TFOM: 4		
DEPLOYMENT INFORMATION		SYS Minutes: 0 CLK Minutes: 0 Diff by ~1: <input checked="" type="checkbox"/>	
Date: 299	By: EA	System TAG (PS): 2016:299:10:52:59.9999983	
Data Logger: B316-006	Clock TAG (PC): 2016:299:10:53:59.5210611		
Acoustics: 78	Type "D" To be sure clocks zero out: <input checked="" type="checkbox"/> MET SYNC		
Frame: 2000-053	*** Start Mission (ZR): <input checked="" type="checkbox"/> ***		
Float: MG 51	RECOVERY INFORMATION		YYYY:JD 2016:341 By: MK6
Radio: NR 35	(V) Voltage: 7.40	Temp: 61.3	
Strobe: NS 08	FPGA Not Reset (R0): <input checked="" type="checkbox"/>	{ If reset DO NOT Click End Logging }	
Geophone: OBS10-GP15	LBA Incrementing by # chans (L): <input checked="" type="checkbox"/>	{ use multiple (L) commands }	
Hydrophone (/DPG): OBS10-HYD 74	End Logging (T1234): <input checked="" type="checkbox"/>		
Deploy Time: 2016:299:12:23:00	Last Sector: 23944714	# Sectors: 22864806	
Acoustic Disabled <input checked="" type="checkbox"/>	Save Time TAG (u): 2016:341:03:21:00 TFOM: 4		
	** System TAG (PS): 2016:341:03:21:59.8628027		
Relocation Survey [ Y / N / NA ]	** Drift {based on 'PS' command results}: -0.1371973		
REL LAT Dec°:	Clock TAG (PC): 2016:341:03:22:59.3838754		
REL LON Dec°:	Save Housekeeping to CF (HS): <input checked="" type="checkbox"/>		

NOTES:

Set A2D Gain Verification up 64,64,64,16 ✓

This loggers SEAScan clock was missing Nylon mounting screws. They were added during lab testing.

revised 19 Aug 2016

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\* BAD PC TAG  
 \* Radio Flood



BUG- ELECTRONICS CHECKLIST		Cruise ID: MGL1610	Site ID: SS 23
Instrument Type: (SP) LP ABA FLIP		Mission File: Trehu_deploy.txt	LAT (Dec°): -20.18539
LAB CHECKOUT		IRIS ID: 16-2, Network Code: XW	LON (Dec°): -72.16244
Date: 8/23/16 By: Sean McPeak		DEPLOYMENT SETUP	Water Depth (M): 2853
LOGGER INFORMATION	YYYY:JD 2016:299 By: EA		Acoustic Unit #: 40
Logger Endcap # SP208		Power Relays:	(V) Voltage: 9.32
CF Serial Number: 2008-536		Main (QM1) [✓] Trillium (QS1) [✓]	Temp: 32
CF Size: 16GB		Clock (QC1) [✓] Analog (QA1) [✓]	Set Header: SS23
Number A2D files: 4		Erase housekeeping data (he1234) [✓]	
Expected Data Size: 10GB-mSEED		Mount CF (FV): [✓] A2D Dat Files Found: 4	
Logger Module # 13014		Current LBA static (L)?: [✓] 1079909 { use multiple (L) commands }	
BATTERY INFORMATION		Enable FPGA Reset Detect (W4,1): [✓]	
Main Power Type: Alkaline Pro Battery		Save Mission to EEPROM (ZL): [✓]	
Quantity: 3xProBat ALK Date checked: 8/23/16		Display Mission (X20000): [✓] Verify Mission matches expected: [✓]	
Clock Pack Type: Alkaline Energizer		Initialize Sample Rate and Gain (e.g. a50,1,1,1,64): [✓]	
Quantity: 2D Energizer Date checked: 8/23/16		Sample Rate: 200 # days A2D recording: 55.3	
Anticipated Duration: 60 days		Gains: CH1 64 CH2 64 CH3 64 CH4 16	
Notes:		A2D Check {1st two char.}: (M1): ✓ (M2): ✓ (M3): ✓ (M4): ✓	
		Values changing on all channels @ appropriate rate? [✓]	
		2Clock Sync Time (U): 2016:299:09:56:08 TFOM: 4	
DEPLOYMENT INFORMATION		SYS Minutes: 0 CLK Minutes: 0 Diff by ~1: [✓]	
Date: 299 By: EA		System TAG (PS): 2016:299:09:56:59.9999996	
Data Logger: BS16-009		Clock TAG (PC): 2016:299:09:57:59.9999980	
Acoustics: 40		Type "D" To be sure clocks zero out: [✓] AFTERX SYNC	
Frame: F59		*** Start Mission (ZR): [✓] ***	
Float: MG 246		RECOVERY INFORMATION	YYYY:JD 2016:341 By: MR6
Radio: NR 13		(V) Voltage: 7.49	Temp: 60.6
Strobe: NS 40		FPGA Not Reset (R0): [✓] { If reset DO NOT Click End Logging }	
Geophone: OBS 10-GP60		LBA Incrementing by # chans (L): [✓] { use multiple (L) commands }	
Hydrophone (/DPG): OBS 10-HYD 20		End Logging (T1234): [✓]	
Deploy Time: 2016:299:11:15:00		Last Sector: 24015050 # Sectors: 22935742	
Acoustic Disabled [✓]		Save Time TAG (u): 2016:341:05:31:00 TFOM: 4	
		** System TAG (PS): 2016:341:05:31:59.9742095	
Relocation Survey [Y/N/NA]		** Drift {based on 'PS' command results}: -0.0257905	
REL LAT Dec°:		Clock TAG (PC): 2016:341:05:32:59.9742199	
REL LON Dec°:		Save Housekeeping to CF (HS): [✓]	

## NOTES:

A2D Gains Verified  
64, 64, 64, 16 ✓

revised 19 Aug 2016

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BUG- ELECTRONICS CHECKLIST		Cruise ID: MGL1610	Site ID: 5524
Instrument Type: (SP) LP ABA FLIP		Mission File: Trehu_deploy.txt	LAT (Dec°): -20.12490
LAB CHECKOUT		IRIS ID: 16-2, Network Code: XW	LON (Dec°): -72.03308
Date: 8/23/16 By: Sean McPeak		DEPLOYMENT SETUP	Water Depth (M): 3330
LOGGER INFORMATION	YYYY:JD 2016:299 By: MRB		Acoustic Unit #: 23
Logger Endcap # 13039	Power Relays:		(V) Voltage: 9.28
CF Serial Number: 2008-518	Main (QM1) [✓] Trillium (QS1) [✓]		Temp: 73.4
CF Size: 16GB	Clock (QC1) [✓] Analog (QA1) [✓]		Set Header: 5524
Number A2D files: 4	Erase housekeeping data (he1234) [✓]		
Expected Data Size: 10GB-mSEED	Mount CF (FV): [✓] 1079909	A2D Dat Files Found: 4	
Logger Module # 13019	Current LBA static (L)? [✓] 1079909	{ use multiple (L) commands }	
BATTERY INFORMATION	Enable FPGA Reset Detect (W4,1): [✓]		
Main Power Type: Alkaline Pro Battery	Save Mission to EEPROM (ZL): [✓]		
Quantity: 3xProBat ALK Date checked: 8/24/16	Display Mission (X20000): [✓]	Verify Mission matches expected: [✓]	
Clock Pack Type: Alkaline Energizer	Initialize Sample Rate and Gain (e.g. a50,1,1,1,64): [✓]		
Quantity: 2D Energizer Date checked: 8/24/16	Sample Rate: 200	# days A2D recording: 55.3	
Anticipated Duration: 60 days	Gains: CH1 64 CH2 64 CH3 64 CH4 16		
Notes:	A2D Check {1st two char.}: (M1): ✓ (M2): ✓ (M3): ✓ (M4): ✓		
	Values changing on all channels @ appropriate rate? [✓]		
	Clock Sync Time (U): 2016:299:03:52:00 TFOM: 4		
DEPLOYMENT INFORMATION	SYS Minutes: 0 CLK Minutes: 0 Diff by ~1: [✓]		
Date: 2016:299:10:19 By: EA	System TAG (PS): 2016:299:03:53:00.0000009		
Data Logger: BS16-015	Clock TAG (PC): 2016:299:03:53:59.9999972		
Acoustics: 23	Type "D" To be sure clocks zero out: [✓]		
Frame: F48	*** Start Mission (ZR): [ ] ***		
Float: MGS	RECOVERY INFORMATION	YYYY:JD 2016:341 By: MRB	
Radio: NR 58	(V) Voltage: 7.46	Temp: 56.5	
Strobe: NS 63	FPGA Not Reset (R0): [✓]	{ If reset DO NOT Click End Logging }	
Geophone: OBS10-6P48	LBA Incrementing by # chans (L): [✓]	{ use multiple (L) commands }	
Hydrophone ( / DPG): OBS10-H4D 302	End Logging (T1234): [✓]		
Deploy Time: 299:10:19:00	Last Sector: 24204594	# Sectors: 23174680	
Acoustic Disabled [✓]	Save Time TAG (u): 2016:341:07:43:00 TFOM: 4		
	** System TAG (PS): 2016:341:07:43:59.9767774		
Relocation Survey [ Y / N / NA ]	** Drift {based on 'PS' command results}: -0.0232226		
REL LAT Dec°:	Clock TAG (PC): 2016:341:07:44:59.9767770		
REL LON Dec°:	Save Housekeeping to CF (HS): [✓]		

NOTES:

Set A2D Gain Verification  
VR 64,64,64,16



BUG- ELECTRONICS CHECKLIST		Cruise ID: MGL1610	Site ID: 5525 ✓
Instrument Type (SP) LP ABA FLIP		Mission File: Trehu_deploy.txt	LAT (Dec°): -20.06297
LAB CHECKOUT		IRIS ID: 16-2, Network Code: XW	LON (Dec°): -71.90005
Date: 8/23/16	By: Sean McPeak	DEPLOYMENT SETUP	
LOGGER INFORMATION		YYYY:JD 2016	By:
Logger Endcap # 13038		Power Relays:	(V) Voltage: 9.25
CF Serial Number: 2015-001		Main (QM1) [✓] Trillium (QS1) [✓]	Temp: 32 *A
CF Size: 16GB		Clock (QC1) [✓] Analog (QA1) [✓]	Set Header: 5525
Number A2D files: 4		Erase housekeeping data (he1234) [✓]	
Expected Data Size: 106B-mSEED		Mount CF (FV): [✓]	A2D Dat Files Found: 4
Logger Module # 13031		Current LBA static (L)?: [✓] 1079909	{ use multiple (L) commands }
BATTERY INFORMATION		Enable FPGA Reset Detect (W4,1): [✓]	
Main Power Type: Alkaline Pro Battery 9.75V		Save Mission to EEPROM (ZL): [✓]	
Quantity: 3xProBat ALK Date checked: 8/27/16		Display Mission (X20000): [✓]	Verify Mission matches expected: [✓]
Clock Pack Type: Alkaline Energizer 3.23V		Initialize Sample Rate and Gain (e.g. a50,1,1,1,64): [✓]	
Quantity: 2D Energizer Date checked: 8/27/16		Sample Rate: 200	# days A2D recording: 55.3
Anticipated Duration: 60 days		Gains: CH1 64 CH2 64 CH3 64 CH4 16	
Notes:		A2D Check {1st two char.}: (M1): [✓] (M2): [✓] (M3): [✓] (M4): [✓]	
		Values changing on all channels @ appropriate rate? [✓]	
		Clock Sync Time (U): 2016:299:00:32:00	TFOM: 4
DEPLOYMENT INFORMATION		SYS Minutes: 2	CLK Minutes: 2
Date: 2016:299	By: MG	Diff by ~1: [✓]	
Data Logger: B516-026		System TAG (PS): 2016:299:00:33:00.0000029	
Acoustics: 55		Clock TAG (PC): 2016:299:00:34:00.0000053	
Frame: 2000-09		Type "D" To be sure clocks zero out: [✓]	
Float: MG 58		*** Start Mission (ZR): [✓] ***	
Radio: NR 82		RECOVERY INFORMATION	YYYY:JD 2016:341
Strobe: NS 33		(V) Voltage: 7.44V	By: EA
Geophone: OBS10-GP54		FPGA Not Reset (R0): [✓]	Temp: 54.8 F
Hydrophone (/DPG): OBS10-HYD40		LBA Incrementing by # chans (L): [✓]	{ If reset DO NOT Click End Logging }
Deploy Time: 299:09:18:00		End Logging (T1234): [✓]	
Acoustic Disabled [✓]		Last Sector: 24340226	# Sectors: 23260318
		Save Time TAG (u): 2016:341:10:19:00	TFOM: 4
		** System TAG (PS): 2016:341:10:20:00.0549015	
Relocation Survey [Y/N/NA]		** Drift (based on 'PS' command results): 0.0549015	
REL LAT Dec°:		Clock TAG (PC): 2016:341:10:21:00.0549327	
REL LON Dec°:		Save Housekeeping to CF (HS): [✓]	

NOTES:

A2D Gain Verification  
 64, 64, 64, 16 ✓  
 Temp Reporting is exhibiting  
 issue

LON = -71.90005





BUG- ELECTRONICS CHECKLIST		Cruise ID: MGL1610	Site ID: SS26
Instrument Type: (SP) LP ABA FLIP		Mission File: Trehu_deploy.txt	LAT (Dec°): -20.00459
LAB CHECKOUT		IRIS ID: 16-2, Network Code: XW	LON (Dec°): -71.77042
Date: 8/23/16	By: Sean McPeak	DEPLOYMENT SETUP	
LOGGER INFORMATION		YYYY:JD 2016:299	By: MRB
Logger Endcap #	13011	Power Relays:	(V) Voltage: 9.35
CF Serial Number:	2015-010	Main (QM1) <input checked="" type="checkbox"/> Trillium (QS1) <input checked="" type="checkbox"/>	Temp: 74.3
CF Size:	64GB	Clock (QC1) <input checked="" type="checkbox"/> Analog (QA1) <input checked="" type="checkbox"/>	Set Header: SS26
Number A2D files:	5	Erase housekeeping data (he1234) <input checked="" type="checkbox"/>	
Expected Data Size:	10GB-mSEED	Mount CF (FV): <input checked="" type="checkbox"/>	A2D Dat Files Found: 5
Logger Module #	14024	Current LBA static (L)?: <input checked="" type="checkbox"/> 1079243	{ use multiple (L) commands }
BATTERY INFORMATION		Enable FPGA Reset Detect (W4,1): <input checked="" type="checkbox"/>	
Main Power Type:	Alkaline Pro Battery	Save Mission to EEPROM (ZL): <input checked="" type="checkbox"/>	
Quantity:	3xProBat ALK <sup>9.71V</sup> Date checked: 8/24/16	Display Mission (X20000): <input checked="" type="checkbox"/>	Verify Mission matches expected: <input checked="" type="checkbox"/>
Clock Pack Type:	Alkaline Energizer	Initialize Sample Rate and Gain (e.g. a50,1,1,1,64): <input checked="" type="checkbox"/>	
Quantity:	2D Energizer <sup>3.23V</sup> Date checked: 8/24/16	Sample Rate: 200	# days A2D recording: 60.9
Anticipated Duration:	60 days	Gains: CH1 64 CH2 64 CH3 64 CH4 16	
Notes:		A2D Check {1st two char.}: (M1): <input checked="" type="checkbox"/> (M2): <input checked="" type="checkbox"/> (M3): <input checked="" type="checkbox"/> (M4): <input checked="" type="checkbox"/>	
		Values changing on all channels @ appropriate rate? <input checked="" type="checkbox"/>	
		Clock Sync Time (U): 2016:299:00:10:00	TFOM: 4
DEPLOYMENT INFORMATION		SYS Minutes: 0	CLK Minutes: 0
Date: 2016:299	By: MRB	Diff by ~1: <input checked="" type="checkbox"/>	
Data Logger:	BS16-016	System TAG (PS): 2016:299:00:11:00.0000006	
Acoustics:	38	Clock TAG (PC): 2016:299:00:11:59.9999957	
Frame:	F109	Type "D" To be sure clocks zero out: <input checked="" type="checkbox"/>	
Float:	M660	*** Start Mission (ZR): <input checked="" type="checkbox"/> ***	
Radio:	NR23	RECOVERY INFORMATION	
Strobe:	NS82	YYYY:JD 2016:341	By: EA
Geophone:	OBS10-6P21	(V) Voltage: 7.54V	Temp: 56.8F
Hydrophone (/DPG):	OBS10-141035	FPGA Not Reset (R0): <input checked="" type="checkbox"/>	{ If reset DO NOT Click End Logging }
Deploy Time:	2016:299:08:16	LBA Incrementing by # chans (L): <input checked="" type="checkbox"/>	{ use multiple (L) commands }
Acoustic Disabled <input checked="" type="checkbox"/>		End Logging (T1234): <input checked="" type="checkbox"/>	
Relocation Survey [Y/N/NA]		Last Sector: 24488068	# Sectors: 25328226
REL LAT Dec°:		Save Time TAG (u): 2016:341:12:57:00	TFOM: 4
REL LON Dec°:		** System TAG (PS): 2016:341:12:57:59.9199755	
		** Drift (based on 'PS' command results): -0.0800245	
		Clock TAG (PC): 2016:341:12:58:59.9199896	
		Save Housekeeping to CF (HS): <input checked="" type="checkbox"/>	

NOTES:  
 Set 5 A2D Gain Verification  
 up 264, 64, 64, 16

Rough Bottom