	Date 11 /4 /2014 INSTALL SHEET (Q330 Su Local Date/Time: 11:20 A	M JULARON GMT	Telemetry) T Date/Time: 19	Station 48 B	(soll-up door) 1
	Field Team:	Prestigard		<u> </u>	
	GPS Location of Site:				
	Equipment	U		4Te -7	
	Sensor S/N:	[10033	Sensor Type:	7/3/1	Q location
DLOOD ON AIB9F	160 33 Niag	0926	(122) ·	06300	Baler Tag
,	Modem S/N:			204.114.29.37	
	Clock S/N:	(•	DYSA 10107	
	Flash Disk 1 S/N:		Size:	- 101.01	
	Flash Disk 2 S/N: INSTALL SENSOR Record the declination of your co	mpass degr	Size: ees W (E) (circle one)	Switch labe	1: 4880 SW I
	Place an arrow on the figure belo avoid sign errors)		•		oss check against above to does not work and - a lighment
	E		W		. 1
	Sweep any dirt from theAttach the alignment jigLock feet of sensorConnect the sensor cableReattach the alignment jidegree align and relevel beTrillium or STS2Sweep any dirt from the	and use it to simultaneously to the sensor and then to to g and fill out the alignment sefore making final measure	ly level and orient the the DAS (leave enough at table below (4 meas rements.	sensor h slack to allow you to urements). If initial o	reattach the alignment jig) rientation is off by more than 1
	∠ Connect the sensor cable ∠ Align the sensor using th ALL SENSORS	to control box and sensor e mark and the alignment	rod, level, repeat until		out table below)
Ν	Use a fish tape to pull the Unlock masses Center masses	se to run from sensor vaul e DAS to control box cable	e through the fire hose		S
NI	★ Working with your partn Install vault cover with so Cover vault with at least Bury sensor using sandba	crews	·		o top

Use Brunton compass adjacent to sensor measurement jig, measuring North (N) and South (S). Reverse the jig and repeat recording the 4 measurements below. Record to your best guess of the nearest 0.1 degree. If orientation is more than 1 degree away from NS try to realign. For Trillium and STS2 sensors use left and right side of alignment rod

Station Name

Brunton Left (N)	Brunton Left (S)	Brunton Right (N)	Brunton Right (S)

	Q330 Hardware Setup						
	Install solar panels on post using brackets and wood screws.						
dN.	Reconfigure guy wires if necessary						
1/1	Place the dog house near the solar panel pole with the door facing downhill to allow water to drain						
	Install GPS on top of pole (must see the sky)						
	Install Wilan radio on the pole (make sure the antenna is on the side facing Yates)						
	Run GPS and network cables and connect to Q330 (do not bundle up until testing is finished)						
	Connect the baler to the Q330						
	7						
	Power system tests: Initial battery voltage (V)						
	Initial battery voltage (V)						
	Solar panel output test:						
	Sun condition when tested (circle one): (a) sun on panels, (b) cloudy, (c) sun on panels at low angle						
	Panel 1 output (V) 7 N/A Panel 2 output (V) 7						
	Equipment power up:						
	MA Make sure power box is set for sealed battery mode						
	Make sure power box is set for sealed battery flode AttANDive hetters into negues here. Becard voltage showing on LCD display (V) 13.5						
	Plug battery into power box. Record voltage showing on LCD display (V) 13.5 V/A Connect both solar panels to power box. Record voltage on display (V) V/A						
	VIPConnect both solar panels to power box. Record voltage on display (v) VI						
	✓ If all looks ok, connect the Q330 to power (Note with Guralp unlock cannot happen till now)						
	Check here when the GPS LED goes yellow						
	O220 Operations with the Clie (pregram O220D147 on the SONV Clie DDA)						
	Q330 Operations with the Clie (program Q330B147 on the SONY Clie PDA)						
	N / Clone the program into the Q330						
	Clone the program into the Q330 Commands->Cloning						
	N / Clone the program into the Q330						
	Clone the program into the Q330 Commands->Cloning >Select file to clone based on sensor type >Station names >Palm overrides 330						
	Clone the program into the Q330 Commands->Cloning >Select file to clone based on sensor type >Station names >Palm overrides 330 >"Check" Edit/Verify						
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	Clone the program into the Q330 Commands->Cloning >Select file to clone based on sensor type >Station names >Palm overrides 330 >"Check" Edit/Verify >IP Addresses >Palm overrides 330 >"Un-Check" Edit/Verify !Send >Station Names >DP4 >New !Enter current station name (All CAPS and up to 5 letter/number characters)						
	Clone the program into the Q330 Commands->Cloning >Select file to clone based on sensor type >Station names >Palm overrides 330 >"Check" Edit/Verify >IP Addresses >Palm overrides 330 >"Un-Check" Edit/Verify !Send >Station Names >DP4 >New !Enter current station name (All CAPS and up to 5 letter/number characters)						
	Clone the program into the Q330 Commands->Cloning >Select file to clone based on sensor type >Station names Palm overrides 330 >"Check" Edit/Verify >IP Addresses Palm overrides 330 >"Un-Check" Edit/Verify !Send >Station Names >DP4 >New !Enter current station name (All CAPS and up to 5 letter/number characters) !Ok !Save/Reboot !Save/Reboot !Ok						
	Clone the program into the Q330 Commands->Cloning >Select file to clone based on sensor type >Station names >Palm overrides 330 >"Check" Edit/Verify >IP Addresses >Palm overrides 330 >"Un-Check" Edit/Verify !Send >Station Names >DP4 >New !Enter current station name (All CAPS and up to 5 letter/number characters) !Ok !Save/Reboot !Ok Views ->Data Recording ->DP *Station name (Sensor Type)						
	Clone the program into the Q330 Commands->Cloning >Select file to clone based on sensor type >Station names Palm overrides 330 >"Check" Edit/Verify >IP Addresses Palm overrides 330 >"Un-Check" Edit/Verify !Send Station Names >DP4 >New !Enter current station name (All CAPS and up to 5 letter/number characters) IOk Save/Reboot IOk Sa						
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Date 11/19/2014	Station_	48B	3
SENSOR Unlock Procedure CMG-3T: Attach extra power to 3T BOB. Use the BOB to test if the Enable Buttons for about 10 seconds. Watch the LED light	ne sensor is locked. ht (4-6 blinks in ~3	Press and hold both the sec = Locked: indicate	e <u>Lock</u> and es OK to
use.) Next, unlock the sensor. Press and hold both the <u>Unlock</u> . buttons when the LED light illuminates (2 blinks and sol TURN OVER			Release
STS-2: Use an STS-2 screwdriver to smoothly unlock all 3 elemusing the button on the host box.	ents. Give the STS-	·2 and initial centering p	pulse
Views > Sensor: !Center A (STS-2))		
Views->System: *Main Current: 39 MA *Input Volts: 13.7 *Temp: 1.70	<u>(>12.5 full</u>	sun, >11.5 no sun)	
*Q330 SW Vers: 1.145 *Last Boot: Winterful	19:26:34 *Last Res	sync: 19/11/2014 19:20	6250
▼ Views -> Clock: *Last Lock: Var *Ph *Clock Quality: 80%	ase error: Zol	μs.	
Status -> GPS *GPS Time: 11.30.23 *GPS Date: *Height: 1643.5m *Latitude: 44.21 6.02 Views -> Sensors !Refresh *Boom Positions (within +/-15, i.e. within +/-15)	11/19/2014 41/15 = 140	(given in DD/MM/de: 163° 451 4.11641	/YYYY) <u>⊬</u>
1 2 2 4 2 4 2 4 2 4 2 4 4 2 4 4 4 4 4 4	+7-1.5 VOI(8)		
** If the Boom Positions are out – recenter sensor: Views ->Sensor	ors !Center A		
Views ->Quickview ->chan 1,2,3 -> !Start Stomp test: ch 1: ⊠ OK ch 2: ☑ OK ch 3: ☒ OK (stomp seen?) -> !Stop Write values:			
ch 1: maxmin RMS			
ch 2: max min RMS ch3 max min RMS			
(Values should be ~10,000 counts)			
Status -> Data Port Txfr -> Data4 *Packet buffer used (increasing?)	YES NO		
Commands ->Baler Cmds Turn on baler power control Send Baler Command (Baler should turn on) Do No Note: If the baler times out BEFORE is		on to power baler	,
Status -> Data Port Txfr -> Data4 *Packet Buffer (Decreases to zero)	(YES NO		
*Data packets sent578			
NOTE: If the Q330 does not transfer data to the Baler try clearing the Bal button in until the light turns solid red (~5 sec). Release the button and the Attention button once to shut down the Baler. Repeat the process once mo	n, after the light be	gins to flash green, pres	ss the
Status->General*Total ReSyncs 308			
Views -> Sensor: *Boom Positions (less than +/-15, i.e. less than +/-1.5	volts)		
1 3 2 -5 3	5		
☐ App ->Make Docfile !OK to default filename Conf-YrMoDy-Q330	0		
SITE NOTES (Anything strange or notable)			

Checklist

Paperwork

Completed pages 1-3

Šensor

Compass declination set and recorded

7 Oriented

∠ Level

★ Feet locked

Power system

Battery terminals tight

All power box connection tight

Any external power cables to box secured from rodent damage

Cables in the air have drip lines

No cables are on the ground without protection

SOLAR: panel boxes closed

AC: battery minder plugged in powered

Q330

ALA

X Completed paperwork on pages 1-2

X Acquiring data

XAll unused connectors capped

Site

Multiple layers of plastic on top of vault

Plastic configured to not collect water around sensor vault

Vault well covered with sandbags and dirt (6 inches minimum)

Cables all secured

Dog house door is secured

Cable entry plugged with plumber's putty

Frenton

STS-2, Z cables (onnge), breakout box

PSH + Depresentation for proposed pox

Q330 + Baler

Q330 Serial -> Baler + power cable

Q330 QNET + ethernet cable

Q330 QNET + ethernet cable

Zx dual optical cable &C to Fc)

Ly will be fixed by James

2 2x 4 4 5 5 4 5 5 C

Battery tender + Battery.

3 may power cable

(505 trancoher)

Power box

+

Battery tender

OBS trancoher -> Q 330 cable (haw)