Iridium-Enabled Portable Tide Gauge Setup, Configuration, and Data Export Procedures

Procedure Number:SOP # 5.4.1.1.C2Created:May 2011Created By:Seattle Instrument Lab (SIL) personnel: Dan Johnson and Keith BrkichApproved By:Team Lead, Seattle Instrument Lab, Caleb GostnellUpdated:April 18, 2014

- 1) **Title:** Iridium-Enabled Portable Tide Gauge Setup, Configuration, and Data Export Procedures
- 2) Purpose: To provide a basic overview of the Portable Tide Gauge (PTG) system and familiarize the user with the gauge's physical setup, 9210B data collection platform (DCP) configuration, data export, and the procedures for setting up communications via Iridium Short Burst Data modem.
- **3) Background/History:** The Portable Tide Gauge is the next generation of water level measurement system for use by hydrographic field parties and other users for temporary installations in locations without the infrastructure to support a typical full installation. The PTG is a stand-alone water level station housed in a ruggedized weatherproof housing and includes all components necessary to measure, record, and transmit near real-time water levels from anywhere within the Iridium footprint. The PTG uses a pump instead of compressed nitrogen for its bubbler system, which reduces the overall weight and complexity of the system.
- 4) **Scope/Applicability:** This SOP applies to Office of Coast Survey (OCS) Hydrographic Field Units, contractor personnel, and Field Operations Division (FOD). OCS and contractor personnel will utilize the following procedures for preparing and operating PTGs in remote areas, primarily in Alaska.
- 5) Main Processes: Setup and connect ancillary components, power system on, configure station specific information, and download data.

Software Installation: Communications with the PTG require use of Xterm.exe. This is a small executable file which does not require administrator privileges to run. This software was provided by CO-OPS and should be available on the ship's server.

Hardware Required: Complete PTG kit which includes the gauge itself, Iridium antennae and mount, 40W solar panel, 40Ah battery, tripod, orifice, bubbler tubing and necessary cables. Additionally, a computer with an available serial port and a DB-9 serial cable are required to configure the DCP and/or manually download data.

6) **Detailed Sub-Processes/Checklists:** Use the following step-by-step procedures to setup and configure the Portable Tide Gauge.

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I. Portable Tide Gauge Component Familiarization:

 The Portable Tide Gauge components are housed within a ruggedized, weatherproof housing. Inside the housing are mounted a Sutron 9210B Data Collection Platform (DCP), a WaterLog H-355 Pump, and a Paroscientific 6000-30G pressure sensor. There are five external connections on the outside of the housing for connecting peripheral components.

***NOTE**: To ensure proper opening/closing of the Portable Tide Gauge case, make sure the stays on either side of the housing are in sync with each other before closing. If you get resistance when attempting to close the case, first lift the lid and then lower it. Please do not force the lid closed as it may damage the hinge.



- 1) Orifice quick connect
- 2) Iridium antenna connection (Type-N)
- 3) GPS antenna connection (SMA) Not used
- 4) Solar panel connection (2 pins)
- 5) Battery connection (4 pins)





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2) The DCP enclosure houses a Sutron 9210B DCP module; the data recorder and communications device. Mounted directly behind the 9210B is a Sutron Satlink2 satellite transmitter. Mounted on an aluminum plate next to the 9210B is the Sutron Iridium modem. The fuse block is also located inside the DCP enclosure; there are three fuses 1A for the DCP, 5A for the Pump, and 8A for the Satlink. Push these fuses into the engaged position to power the system up; pull the fuses to disengage and power off the system.

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*Note: For Iridium operation the 8A fuse for the Satlink should NOT be engaged.



3) The Pump includes a compressor, a compressed air cylinder, and various electronic components. On the left side of the enclosure is a circuit board with a purge button. To purge the system, hold the white button down for several seconds and then release it. The pump with start running and there should be bubbles coming out of the orifice. You may need to repeat the purge several times for long tubing runs.



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*Note: Ensure that the fuse block latches are disengaged prior to connecting the battery and solar panel. Engage them after there is power available to prevent possibly blowing one or more fuses.

- 1) Connect the four ancillary components, moving front to back:
 - 1) Orifice Ensure compression fittings are firmly seated, the bubbler tubing is not kinked, and the orifice is mounted to a stable structure.
 - 2) Iridium Antenna Mount with a clear line of site to the sky.
 - 3) GPS Antenna Not needed for Iridium transmissions.
 - 4) Solar Panel Mount facing south with good solar exposure (2 pin connector).
 - 5) Battery Place upright on stable ground (4 pin connector). Also, please provide a top off charge to the battery prior to operational installation to lengthen the overall battery life.
- 2) If you are configuring the DCP prior to the actual installation it is only necessary to connect the battery and the orifice pigtail. The battery is needed to power the system up and the orifice pigtail is needed to ensure that the system doesn't over pressurize and damage the Paros sensor.





- 3) After the needed connections have been made, engage the two fuses located inside the DCP, thus powering up the DCP and the pump. Do not engage the 8A Satlink fuse as the Satlink is not used and will consume power unnecessarily. The DCP typically takes 5-10 minutes to fully load and allow communications and control.
- 4) If the Station ID was already setup the station is now up and running. If not, please use the procedure below to configure the Station ID.

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III. Configuring the Station Specific Information in the DCP

1) Once the system has powered up, locate the Sutron 9210B DCP within the DCP enclosure and connect your computer to COM1 on the 9210B using a DB-9 serial cable. COM1 is located on the bottom surface of the bottom right corner of the DCP.



2) Open the XTerm.exe application on your computer.



This is a small executable file that does not require admin privileges to run and should be on the ship's server. Alternately, this software can be downloaded from:

http://www.sutron.com/downloads/software.htm

3) Verify that the COM port selected corresponds to the COM port being used on your computer (typically COM1 for a laptop), that the Baud Rate is set to 115200, and that Hardware is set to Direct as shown in the below graphic. Enter a User Name of **hydro** and a Password of **ptg** and click **OK**.

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| XTerm Communications | × |
|--|----------------------|
| Com Port: Baud Rate: COM1: ▼ 115200 ▼ Setup | Hardware © Direct |
| URL: localhost | - O Modem |
| <u> </u> | C Radio |
| To: | C TCPIP |
| From: PC | C TELNET |
| User Name: hydro | ☑ 640x480 |
| Password: | Telnet Port: |
| Phone #: | 23 |
| Sample Command Line: Create | Desktop Shortcut |
| XTerm COM1:115200 /U hydro /P ***** | |
| | |

4) This will bring up the GUI interface with the DCP as shown below. Click the **Setup Access** button to proceed with setup.

| X XTerm COM5:115200 /U hydro /P ***** | _ 🗆 🗵 |
|--|---|
| Select type of access: | C Rx C Tx C Xp C Err File Transfer Set Clock |
| Retrieval Access for data retrieval | Upgrade Status |
| Setup Access $_{ m k}$ for station setup | V Auto Update |
| | |

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| Main Setup Sensors Iridium Data Log Status | Bx C Tx |
|---|---|
| | ×p ⊂ Err |
| Station Info Date/Time: 01/23/2014 18:10:32 Station name: 99999011 Battery voltage External: 13.5 | File Transfer Set Clock Connect Upgrade Status Web Server Auto Update ight click for ore options. |

6) Enter the correct eight digit Station ID into the field using either the numbers on the top of your keyboard or by clicking on the numbers on the screen (your computer's number pad will not work in this field) and click on **OK**.

| χ XTerm COM5:115200 /U hy | 'dro /P ***** | | | - D × |
|--------------------------------|---------------|------|--------------|--------------------|
| | | | оқ 🗙 🖏 | Rx ⊙Tx Xp CErr |
| 94502962 | | | | ile Transfer |
| 123 | 4 5 | 6 7 | 890-+ | Connect Upgrade |
| QWE | RT | ΥU | I O P [] | Status |
| A S D | FG | нJ | K L ; ' \ 🗸 | Auto Update |
| Z X C | V B | ΝΜ | , . / ° | |
| CAPS shft | S | oace | Clr Bspc Del | |

7) Verify that the Station Name is correct and then click on the Setup Tab at the top of the XTerm window

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| XTerm COM5:115200 /U hydro /P ***** | | | | | |
|--|---|--|--|--|--|
| Main Setup, Sensors Data Log Status | | | | | |
| Station Info Date/Time: 04/12/2010 21:10:53 Station name: 94502962 | Station Status Recording: ON Stop Alarm: NORMAL Clear | File Transfer Set Clock Connect Upgrade Status | | | |
| Contrast 19.000 | Battery voltage Ext: 14.3 Int: Ok out | V Auto Update | | | |

8) Next, save the setup file named with the Station ID. This will ensure that if the station is rebooted or power cycles it will automatically load the setup file upon boot. To do this, click on the words **Setup File** to highlight it and then click the **Save As** button.



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9) Now, in the Name field at the bottom of the window use your cursor to highlight the eight numerical digits of the name file and overwrite them with the new Station ID using the numbers at the top of your keyboard. Ensure that the station number is followed by .ssf and click **OK**.



10) This will take you back to the Setup tab. Now, to create a backup of the setup file highlight **Setup File** and click the **Save As** button again. This time simply highlight the file with the correct name and click the **OK** button again.

| 2 | XTerm COM5:115200 /U hydro /P ***** | - 🗆 🗡 |
|---|-------------------------------------|---------------------|
| | Ma File name | ORx OTx ⊙Xp OErr |
| | Dir: \Flash Disk\ | File Transfer |
| | G 🗐 99999011,ssf | Connect Upgrade |
| | e Up | Status |
| | g Type: | Veb Server |
| | E *.ssf 💌 | 🔽 Auto Update |
| | | |
| | Name: 94502962.ssf | |

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11) This will return you to the Setup tab again. Now, to verify that data are being logged click on the Log tab at the top of the screen.

| X XTerm COM5:115200 /U hydro /P ***** | |
|---------------------------------------|---------------------|
| Main Setur Sensors Data Log Status | ORx OTx OXD OErr |
| | File Transfer |
| 🖳 🖽 Basic 🔼 | Set Cleak |
| The Coms | Jerclock |
| E7Set in Measurements | Connect |
| | Upgrade |
| | Status |
| I ± 1/0 Modules | I Julah Canada |
| E ⊕ Log files | I. web server |
| i ⊡- Satlink | Auto Update |
| Self-test | |
| 🔄 Setup File (94502962.ssf) 🛛 🔍 | |
| | |
| | |

12) The system should automatically bring up the SSP.log. If not, click the small down arrow next to the Select Log field to access the dropdown and select SSP.log from the list. This will bring up the water level data that the system is recording. Verify that the Paros1 values are updating. All times are UTC. Note that it may take 6-12 minutes after starting logging for the first data point to appear.

| X XTer | m COM5:115200 | /U hydro /P ***** | | | | |
|-------------------------------------|---------------|-------------------|---------|---|---------|---------------|
| Γ | ime | Sensor | Data | Q | Units 🔺 | • Xp • Err |
| 2 | 1:31:30 | PAROS1 | 8.762 💦 | G | Avg | Set Clock |
| 2 | 1:31:30 | P1STD | 0.000 | G | Std | |
| 2 | 1:31:30 | P1OUT | 0 | G | Sample | Connect |
| 2 | 1:36:00 | SNS | 0.000 | G | M | Upgrade |
| 2 | 1:36:00 | DAT | 10.000 | G | м | Status |
| 2 | 1:36:00 | BAT | 14.3 | G | ∨ 🗖 | Veb Server |
| | | | | | Þ | 🔽 Auto Update |
| Select Log: NFlash Disk\SSP.log | | | | | | |
| Export + Day - Day Find Clear Close | | | | | | |





- 14) If you were configuring the system in advance of deployment you should now disengage the fuses to power the system down and detach any ancillary components prior to transport. This concludes the Station Specific Configuration procedure.
- 15) To ensure proper closing of the Portable Tide Gauge case, make sure the stays on either side of the housing are in sync with each other before closing. If you get resistance when attempting to close the case, first lift the lid and then lower it. Please do not force it as this may damage the enclosure hinge.



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IV. Exporting Data from the Portable Tide Gauge using XTerm

1) Connect to the DCP as in step III using Xterm, the appropriate COM port and user name/password combination. As in Step III, choose Setup Access at the "type of access" prompt.

| XTerm Communications | | |
|--|--|-------------------------------------|
| Com Port: Baud Rate: Hardware | | |
| COM1: VI115200 V Setup O Direct | T | 7 |
| C Radio | A remit conduct 1 2200 Au super instance | KTEIN COND. 117200 70 Super IP |
| | Select type of access: | Select type of access: |
| From: PC | | |
| User Name: hydro 🔽 640x480 | | |
| Password: Telet Port | Retrieval Access for data retrieval | Retrieval Access for data retrieval |
| Phone #: 23 | | |
| Sample Command Line: Create Desktop Shortcut | Setup Access 🔖 for station setup | Setup Access 🗟 for station setup |
| XTerm COM1:115200 /U hydro /P ***** | | |
| | | |
| | | |

2) Once you are logged on, click on the Log tab at the upper right edge of the screen.

| X- XTerm COM5:115200 /U super /P ***** | \frown | |
|--|-------------------|----------------------------|
| Main Setup Sensors Dat | | CRx CTx €∑B CErr |
| Station Info | Station Status | File Transfer Set Clock |
| 04/16/2010 18:13:47 | | Connect Upgrade |
| Station name: | Alarm: | Status |
| 99999011 | NORMAL Clear | 🔽 Web Server |
| Contrast | Battery voltage | 🔽 Auto Update |
| 19.000 | Ext: 14.2 Int: Ok | |
| Logi | out | |

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3) Select \Flash Disk\SSP.log from the Select Log dropdown (usually the default)

| Х- XTerm C0M5:115200 /U super /P ***** | | | | | | | |
|--|-------------------------------------|--------|-------|-------|---------|---------------|--|
| | | | | | | C Rx C Tx | |
| | Time | Sensor | Data | Q | Units 🔺 | • Xp • Err | |
| | 17:43:30 | PAROS1 | 8.746 | G | Avg | Set Cleak | |
| | 17:43:30 | P1STD | 0.000 | G | Std | | |
| | 17:43:30 | P1OUT | 0 | G | Sample | Connect | |
| | 17:48:00 | SNS | 0.000 | G | M | Upgrade | |
| | 17:48:00 | DAT | 0.000 | G | M | Status | |
| | 17:48:00 | BAT | 14.2 | G | ∨ 🗖 | 🔽 Web Server | |
| | | | | | | 🔽 Auto Update | |
| | | [] | | | | | |
| | Select Log: NFlash Disk\SSP.log | | | | | | |
| | Evport + Day - Day Find Clear Clear | | | | | | |
| | | | | Cieal | | | |
| | └────────── | | | | | | |

4) Click the Export button at the bottom left

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| X | XTerm COM5:1152 | 00 /U super /P ***** | | | | |
|---|--|--|---------------------------------------|-----------------------|--------------------------------|---|
| | Time | Sensor | Data | Q | Units 🔺 | ⊙ Hx O Tx ⊙ Xp O Err |
| | 17:43:30 17:43:30 17:43:30 17:48:00 17:48:00 | PAROS1 P1STD P1OUT SNS DAT | 8.746 0.000 0 0.000 0.000 | G G G G G | Avg Std Sample M M | Set Clock Connect Upgrade Status |
| | 17:48:00 | ВАТ | 14.2 | G | ✓ ▼ | Veb Server |
| (| Select Log: Flash Disk/SSP.log | | | | | |

5) In the Export Log window you will be able to choose the dates and times of the data you want to export. Keep the default format "Comma Delimited".

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| X۳ | XTerm (| COM5:115200 /U super /P ***** | |
|----|------------|---------------------------------|----------------|
| I | Tiŋ | ne Sensor Data O Units 4 | |
| | 17: | Export Log 🛛 🛛 🗙 | Set Clock |
| | 17: 17: | Format: Comma Delimited 🔽 | Connect |
| | 17: 17: | Download: Since last export | Upgrade |
| | 17: 17: | Start Time: 04/15/2010 17:55:05 | Web Server |
| ļ | | End Time: 04/16/2010 17:55:05 | J✓ Auto Update |
| | Se Ex | OK Cancel | |

6) From the drop down menu next to Download, select "Start time to end time."

| Х. XTerm COM5:115200 /U super /Р ***** | |
|--|-------------------------|
| Tim <u>e Sensor Data O Units</u> 🔺 | C Rx C Tx • Xp C Err |
| 17: Export Log | Set Clock |
| 17: Format: Comma Delimited | Connect |
| 17: Download: Start time to end time | Status |
| 17: Start Time: Since last export | Veb Server |
| End Time: Start time to end log | |
| | |
| | |

7) Click on the three dots (...) next to the Start Time field specify the section of the data you want to download.

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| Χ | XTerm (| COM5:115200 /U super /P ***** | | |
|----------|---------|---------------------------------|-------------|--------------------|
| Г | | | | ORx OTx ⊙Xn OEm |
| | Tirr | <u>pe Sensor Data O Unit</u> | | File Transfer |
| | 17: | Export Log | × | Set Cleak |
| | 17: | | | JECOCK |
| | 17: | Format: Comma Delimited 📘 | _ _ | Connect |
| | 17: | | - | Upgrade |
| | 17: | Download: atanu ume to end ume | <u> </u> | Status |
| | 17: | Stort Time: 04/15/2010 17:55:05 | | ✓ Web Server |
| | 17 | | | Auto Llodate |
| | Щ | End Time: 04/16/2010 17:55:05 | | |
| | Se | | - F | |
| | | OK Cancel | | |
| | Ex | | | |
| | | | | |

8) Enter the Date and Time (UTC) that you would like to start the data from and Click OK.

| XXTerm COM5:115200 /U super /P ***** | |
|---|--|
| Enter Start Time | ORx OTx ⊙Xp OErr |
| Date Time Year Month Day 2010 04 15 | File Transfer Set Clock Connect Upgrade Status |
| 7 8 9 4 5 6 1 2 3 + OK | Veb Server |
| | |

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| X-XTerm C0M5:115200 /U super /P ***** | X-XTerm COM5:115200 /U super /P ***** | |
|--|---|--|
| Time Sensor Data O Units Image: Sensor For Cancel 17: Export Log X Image: Sensor For mat: Set Cont 17: Format: Comma Delimited Image: Set Cont Set Cont 17: Format: Comma Delimited Image: Set Cont Set Cont 17: Download: Start time to end time Image: Start Start 17: Start Time: 04/15/2010 17:55:05 Image: Plant Plant Vet Serve 17: Start Time: 04/16/2010 17:55:05 Image: Plant Plant Vet Serve Set OK Cancel Cancel Export Plant Vet Serve | Enter End Time Date Year Month Day 2010 04 16 17 55 7 8 4 5 1 2 3 + 0 < | C R₄ C T₄ Fle Tranufer Set Clock Connect Upgrade Status Veb Server Veb Server Veb Server |

10) Browse to a location **on your machine** to save the file. It's recommended to leave the file name as the default SSP.txt until after the download and then change the name to something station specific after the file is on your computer. Click Save.

| Xen | XTerm | COM5:11520 | 0 /U super /P ***** | | | | | |
|-----|-------|------------|-----------------------------------|------|----------|-----------------|---|-------------------------|
| | Tin | ne | Sensor | Data | Ο | Units | | ⊙ Rx O Tx ⊙ Xp O Err |
| | 17: | Expor | t Loa | | | X | | File Transfer |
| | 17: | Fo | Save As Save in: 🗁 Xpert Downl | pads | • 🔶 🖻 | <u>?</u> ⊻ ≝ | | Connect |
| | 17: | | | | | | | Upgrade |
| | 17: | Dow | r | | | | | Status |
| | 17: | Start | | | | | Ţ | 🔽 Web Server |
| | | End | File name: SSP.txt | | - | Save Cancel | | 🔽 Auto Update |
| | Se | | | ОК | Ca | ancel | Ľ | |
| | Ex | porc | | | | | ; | |

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If the Xpert prompts you to save the file to Dir: \Flash Disk\, DO NOT SAVE the file as it can fill the Flash Disk and cause the system to become unstable and/or crash. This is a known glitch in the Xterm software that occasionally happens. If this occurs, simply cancel out of the File Name screen and restart the export procedure.

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| X··· X | Ferm TELNET12345://166.161.194.234 /U super | /P ***** | |
|--------|---|--------------------------------|--|
| Г | File name | | ⊂ Bx ⊂ Tx ⊙ Xp ⊂ Err |
| | Dir: \Flash Disk\ | Cancel Up Type: *.txt | File Transfer Set Clock Connect Upgrade Status Veb Server Veb Server |
| | s Name: ssp.txt | | |

11) After your log is saved to the appropriate folder on your computer, click the OK button when notified that the export is complete.

| X | XTerm COM5:1152 | 00 /U super /P ***** | | | | |
|---|---------------------------------|----------------------|-------------|--------|---------|-------------------------|
| | Time | Sensor | Data | Q | Units 🔺 | ⊙ Hx O Tx ⊙ Xp O Err |
| | 18:07:30 | PAROS1 | 8.756 | G | Avg | File Transfer |
| | 18:07:30 | P1STD | 0.000 | G | Std | Connect |
| | 18:07:30 | | | л л | fample | |
| | 18:07:35 | xpert | U | к L× | | Upgrade |
| | 18:07:35 | A . | | | | Status |
| | 18:07:35 | | export comp | olete. | | Veb Server |
| | • | | | | | 🔽 Auto Update |
| | Select Log: \Flash Disk\SSP.log | | | | | |
| | Export | + Day - Day | Find | Clea | r Close | |



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12) At this time, you can to browse to the location where the file was saved to verify that the desired data are present in the .txt file. It's also a good time to change the name to something like 99999011_SSP.txt (where 99999011 is the Station ID) so that it will be uniquely identifiable.



13) After you know the data have been exported, go back to Xterm and click the Close button on the bottom right corner of the Log screen. Log export is complete!

| χ | XTerm COM5:1152 | 00 /U super /P ***** | | | | |
|---|-----------------------------------|----------------------|----------------|--------|------------|---------------------|
| | Time | Sensor | Data | Ο | Units 🔺 | CRx CTx €Xp CErr |
| | 17:43:30 17:43:30 | PAROS1 | 8.746 0.000 | G | Avg Std | File Transfer |
| | 17:43:30 | PIOUT | 0 | G | Sample | Connect |
| | 17:48:00 17:48:00 | SNS DAT | 0.000 0.000 | G G | M M | Status |
| | 17:48:00 | BAT | 14.2 | G | × 🖵 | Veb Server |
| | | | | | Þ | I✓ Auto Update |
| | Select Log: \Flash Disk\SSP.log 💽 | | | | | |
| | Export | + Day - Day | Find | Clear | r Close | |



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- a. Click the Logout button on the bottom of the Main tab
- b. Click the Connect button on the type of access screen to disconnect
- c. Close out of Xterm and disconnect your cable. Secure 9210B and Portable Tide Gauge enclosures.

| X XTerm COM5:115200 /U super /P ***** | | X XTerm COM5:115200 /U super /P ***** | |
|---|--|--|---|
| Xtem Colds:112:00 AJ upper AP **** Main Setup Sensors Data Log Status Station Info Date/Time: D4/16/2010 18:07:20 Station name: 99999011 Contrast Contrast Contrast Contrast | Re Crite Set Deck Connect Upgade Stable Veb Server Veb Server P Auto Update | Select type of access: Retrieval Access for data retrieval | Connect File Transfer Set Dock Connect Papadoe Statue V Web Server Auto Update |
| Contrast 19.000 Ext: 14.2 Int: Ok Logout | | Setup Access for station setup | Allo opose |

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V. Verifying Iridium Transmissions Using TidePool

1) Iridium transmissions can be verified via an FTP server called TidePool. This is very much like a standard website and can be accessed via any internet browser by going to <u>ftp://tidepool.nos.noaa.gov/pub/outgoing/iridium/</u>

| Index of /pub/ | /outgoing/ir × | |
|-----------------|--|-----|
| ← → C fi | ftp://tidepool.nos.noaa.gov/pub/outgoing/iridium/ | ☆ = |
| Apps 🙁 Gma | ail: Email from G 🕒 Index of /pub/outgo 🧀 Imported From IE | |
| | | |
| Index o | f /pub/outgoing/iridium/ | |
| Name | Size Date Modified | |
| 🖺 [parent direc | ctory] | |
| 01/ | 1/1/14 11:59:00 PM | |
| 02/ | 1/2/14 11:59:00 PM | |
| 03/ | 1/3/14 11:59:00 PM | |
| 04/ | 1/4/14 11:59:00 PM | |
| 05/ | 1/5/14 11:59:00 PM | |
| 06/ | 1/6/14 11:59:00 PM | |
| 07/ | 1/7/14 11:59:00 PM | |
| 08/ | 1/8/14 11:59:00 PM | |
| 09/ | 1/9/14 11:59:00 PM | |
| 10/ | 1/10/14 11:59:00 PM | |
| 11/ | 1/11/14 11:59:00 PM | |
| 12/ | 1/12/14 11:59:00 PM | |
| 13/ | 1/13/14 11:59:00 PM | |
| 14/ | 1/14/14 11:59:00 PM | |
| 15/ | 1/15/14 11:59:00 PM | |
| 16/ | 1/16/14 11:59:00 PM | |
| | 1/1//14 11:59:00 PM | |
| 18/ | 1/18/14 11:59:00 PM | |
| 19/ | 1/19/14 11:58:00 PM | |
| 20/ | 1/20/14 11:59:00 PM | |
| 21/ | 1/21/14 11:59:00 PM | |
| 22/ | 1/23/14 7-01:00 PM | |
| 24/ | 1/23/14 12:00:00 AM | |
| 25/ | 12/25/13 11-59-00 PM | |
| 26/ | 12/26/13 11:59:00 PM | |
| 27/ | 12/27/13 11:59:00 PM | |
| 28/ | 12/28/13 11:58:00 PM | |
| 29/ | 12/29/13 11:59:00 PM | |
| 30/ | 12/30/13 11:59:00 PM | |

- 2) Once this page is open look for the day of the month that the transmission occurred. *Note: All times are UTC
- 3) Click on the corresponding folder and you will see a list of messages.

| ← C M http://tidepool.nos.noea.gov/pub/outgoing/iridium/23// 1 ## Apps: Granit Email from G Index of /pub/outgo Imported From IE ## 390498119_200034012340310_5179.sbd 111 B 123141 523800 PM ## 1390498123_200334060743650_5183.sbd 127 B 123141 53300 PM ## 1390498123_200334060743650_5183.sbd 127 B 123141 534000 PM ## 1390498125_300234060743650_5183.sbd 127 B 123141 545000 PM ## 1390499812_300234060743650_5183.sbd 127 B 123141 545000 PM ## 1390499812_300234060743650_5183.sbd 127 B 123141 55200 PM ## 1390499815_30024060743650_5183.sbd 127 B 123141 55200 PM ## 1390499815_30024400743650_5183.sbd 127 B 123141 55200 PM ## 1390499815_30024400743650_5183.sbd 127 B 123141 55200 PM ## 1390499812_3002340012340310_5183.sbd 111 B 123141 55200 PM ## 1390499812_3002340012340310_5183.sbd 112 B 12314 56300 PM ## 1390499142_3002340012340310_5183.sbd 112 B 123141 66000 PM ## | Index of /pub/outgoing/ir × | | | |
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| 1390500275_300034012340310_5193.sbd 111 B 1/23/14 6:04:00 PM 1390500661_300034012340310_5195.sbd 117 B 1/23/14 6:11:00 PM 1390500677_300034012340310_5195.sbd 111 B 1/23/14 6:11:00 PM 1390500945_300234060743650_5197.sbd 111 B 1/23/14 6:11:00 PM 1390500953_300234060743650_5197.sbd 111 B 1/23/14 6:15:00 PM 1390500352_300234060743650_5197.sbd 111 B 1/23/14 6:16:00 PM 1390501352_300234060743650_5199.sbd 127 B 1/23/14 6:22:00 PM 1390501355_300034012340310_5200.sbd 111 B 1/23/14 6:22:00 PM 1390501742_300034012340310_5202.sbd 111 B 1/23/14 6:29:00 PM 1390502022_300234060743650_5203.sbd 127 B 1/23/14 6:30:00 PM 1390502045_30034012340310_5202.sbd 111 B 1/23/14 6:30:00 PM 1390502475_300034012340310_5204.sbd 111 B 1/23/14 6:30:00 PM 1390502475_300034012340310_5205.sbd 127 B 1/23/14 6:40:00 PM 1390502438_300034012340310_5206.sbd 111 B 1/23/14 6:40:00 PM 1390502438_300034012340310_5206.sbd 111 B 1/23/14 6:40:00 PM 139050241_300034012340310_5208.sbd 111 B 1/23/14 6:40:00 PM 1390502310_300034 | 1390500220_300234060743650_5192.sbd | 127 B | 1/23/14 6:03:00 PM | |
| 1390500591_300234060743650_5194.sbd 127 B 1/23/14 6:09:00 PM 1390500661_300034012340310_5195.sbd 111 B 1/23/14 6:11:00 PM 1390500945_300234060743650_5197.sbd 127 B 1/23/14 6:15:00 PM 1390500995_300034012340310_5198.sbd 111 B 1/23/14 6:16:00 PM 1390501352_300234060743650_5199.sbd 127 B 1/23/14 6:20:00 PM 1390501355_300034012340310_5200.sbd 111 B 1/23/14 6:22:00 PM 1390501663_300234060743650_5199.sbd 127 B 1/23/14 6:22:00 PM 139050163_300234060743650_5201.sbd 127 B 1/23/14 6:22:00 PM 139050163_300234060743650_520.sbd 127 B 1/23/14 6:29:00 PM 139050122_30034012340310_520.sbd 111 B 1/23/14 6:33:00 PM 1390502023_30034012340310_5204.sbd 111 B 1/23/14 6:34:00 PM 1390502438_300034012340310_5206.sbd 111 B 1/23/14 6:40:00 PM 1390502438_300034012340310_5206.sbd 111 B 1/23/14 6:40:00 PM 1390503101_300234060743650_5207.sbd 127 B 1/23/14 6:40:00 PM 1390503101_30034012340310_520.sbd 111 B 1/23/14 6:50:00 PM 1390503101_30034012340310_5210.sbd 111 B 1/23/14 6:51:00 PM 1390503151_30003401234031 | 1390500275_300034012340310_5193.sbd | 111 B | 1/23/14 6:04:00 PM | |
| 1390500661_300034012340310_5195.sbd 111 B 1/23/14 6:11:00 PM 1390500677_300034012340310_5196.sbd 111 B 1/23/14 6:11:00 PM 1390500995_300034012340310_5196.sbd 111 B 1/23/14 6:15:00 PM 1390500995_300034012340310_5198.sbd 111 B 1/23/14 6:2:00 PM 1390501352_300234060743650_5199.sbd 127 B 1/23/14 6:2:00 PM 1390501663_300234060743650_5201.sbd 111 B 1/23/14 6:2:00 PM 1390501742_300034012340310_5202.sbd 111 B 1/23/14 6:3:00 PM 1390502023_300234060743650_5205.sbd 127 B 1/23/14 6:3:00 PM 1390502431_300234060743650_5205.sbd 127 B 1/23/14 6:4:0:00 PM 1390502733_300234060743650_5207.sbd 127 B 1/23/14 6:4:0:0 PM 139050210_300034012340310_5208.sbd 111 B 1/23/14 6:4:0:0 PM 1390502310_30034012340310_5208.sbd 111 B 1/23/14 6:4:0:0 PM 1390502310_30034012340310_5208.sbd 111 B 1/23/14 6:5:0:0 PM 1390503101_30023406074365 | 1390500591_300234060743650_5194.sbd | 127 B | 1/23/14 6:09:00 PM | |
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| 1390502022_300234060743650_5203.sbd 127 B 1/23/14 6:33:00 PM 1390502075_300034012340310_5204.sbd 111 B 1/23/14 6:34:00 PM 1390502431_300234060743650_5205.sbd 127 B 1/23/14 6:40:00 PM 1390502438_300034012340310_5206.sbd 111 B 1/23/14 6:40:00 PM 1390502733_300234060743650_5207.sbd 127 B 1/23/14 6:40:00 PM 1390502810_30034012340310_5206.sbd 111 B 1/23/14 6:45:00 PM 1390502810_30034012340310_5208.sbd 111 B 1/23/14 6:50:00 PM 1390503101_300234060743650_5209.sbd 127 B 1/23/14 6:51:00 PM 1390503155_300034012340310_5210.sbd 111 B 1/23/14 6:52:00 PM 1390503515_300034012340310_5210.sbd 111 B 1/23/14 6:52:00 PM 1390503516_300234060743650_5211.sbd 127 B 1/23/14 6:58:00 PM 1390503518_30034012340310_5211.sbd 112 B 1/23/14 6:58:00 PM 1390503518_30034012340310_5211.sbd 112 B 1/23/14 6:58:00 PM | 1390501742_300034012340310_5202.sbd | 111 B | 1/23/14 6:29:00 PM | |
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| 1390502431_300234060743650_5205.sbd 127 B 1/23/14 6:40:00 PM 1390502438_300034012340310_5206.sbd 111 B 1/23/14 6:40:00 PM 1390502733_300234060743650_5207.sbd 127 B 1/23/14 6:45:00 PM 1390502810_300034012340310_5208.sbd 111 B 1/23/14 6:46:00 PM 1390503101_300234060743650_5209.sbd 111 B 1/23/14 6:51:00 PM 1390503155_300034012340310_5210.sbd 111 B 1/23/14 6:51:00 PM 1390503515_300034012340310_5210.sbd 111 B 1/23/14 6:51:00 PM 1390503515_300034012340310_5210.sbd 111 B 1/23/14 6:51:00 PM 1390503515_300034012340310_5210.sbd 111 B 1/23/14 6:51:00 PM 1390503516_300234060743650_5211.sbd 111 B 1/23/14 6:58:00 PM 1390503518_30034012340310_5212.sbd 112 P 1/23/14 6:58:00 PM | 1390502075_300034012340310_5204.sbd | 111 B | 1/23/14 6:34:00 PM | |
| 1390502438_300034012340310_5206.sbd 111 B 1/23/14 6:40:00 PM 1390502733_300234060743650_5207.sbd 127 B 1/23/14 6:45:00 PM 1390502810_300034012340310_5208.sbd 111 B 1/23/14 6:46:00 PM 1390503101_300234060743650_5209.sbd 127 B 1/23/14 6:51:00 PM 1390503155_300034012340310_5210.sbd 111 B 1/23/14 6:51:00 PM 1390503516_300234060743650_5211.sbd 111 B 1/23/14 6:58:00 PM 1390503516_300234060743650_5211.sbd 112 B 1/23/14 6:58:00 PM 1390503518_30034012340310_5212.sbd 112 B 1/23/14 6:58:00 PM | 1390502431_300234060743650_5205.sbd | 127 B | 1/23/14 6:40:00 PM | |
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| 1390502810_300034012340310_5208.sbd 111 B 1/23/14 6:46:00 PM 1390503101_300234060743650_5209.sbd 127 B 1/23/14 6:51:00 PM 1390503155_300034012340310_5210.sbd 111 B 1/23/14 6:52:00 PM 1390503516_300234060743650_5211.sbd 127 B 1/23/14 6:58:00 PM 1390503516_300234060743650_5211.sbd 127 B 1/23/14 6:58:00 PM 1390503518_300234061743650_5211.sbd 127 B 1/23/14 6:58:00 PM | 1390502733_300234060743650_5207.sbd | 127 B | 1/23/14 6:45:00 PM | |
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| 1200503518 200034012340310 5212 cbd 111 P 1/23/14 6-59:00 PM | 1390503516_300234060743650_5211.sbd | 127 B | 1/23/14 6:58:00 PM | |
| 1350505518 500054012540510 5212.50d 111 B 1/25/14 0.50.00 PM | 1390503518 300034012340310 5212.sbd | 111 B | 1/23/14 6:58:00 PM | |
| 1390503648 3002340119C2710 5213 sbd 78 B 1/23/14 7:00:00 PM | 1390503648 300234011902710 5213 sbd | 78 B | 1/23/14 7:00:00 PM | |

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4) You can find your message by looking for the IMEI of the Iridium modem. The IMEI is listed on a sticker on the front of the modem and also the equipment. Click on the blue link and this should begin to download of the message or it may prompt you asking where you would like to save the message.

5) Once the message has been downloaded open it and the message will look very similar to a standard GOES message with some additional information in front of the station ID.



6) This message can be decoded using the standard GOES decoders if you replace the header of the Iridium message with one from a GOES message. This can be easily done by opening the desired message in Notepad and editing the text to reflect the highlighted section below.

```
ex: Á K4ê'300234011902710 - RáX2, ŸN99999011@@@@@@@@@@
```

7) Cut and paste highlighted section below into the Iridium message before the N9XXX, the message should then look like:
 334BA43414087154231G44-0NN052WXW00161"N99999011@@@@@@@@@@@@

*See DOMSAT Download SOP for decoding procedure.

VI. Common Troubleshooting Procedures

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Use these procedures to attempt to repair a malfunctioning gauge. Alternately you may contact the Seattle Instrument Lab at <u>SIL@noaa.gov</u> or 206.526.6915 or 206.526.6360.

SYMPTOM: <u>Persistent</u> black screen during boot up (usually accompanied by only the Tx button flashing)



- 1) Check the Xpert to make sure that its fuse is engaged
- 2) Check your cable to make sure you are connected to the Xpert in COM 1
- Check your computer's COM port to make sure that the port you've selected in Xterm is the port you are using. To find out more information about your COM ports:
 - a) Go to My Computer
 - b) Single click on Local Disk (C:) and choose "View system information" on the left hand bar

| my computer | | | | |
|--|--|-------------------------------|------------|------------|
| ile Edit View Favorites | Fools Help | | | <u>_</u> |
| 子 Back 🝷 🕥 🕤 🏂 🦕 | 🔎 Search 🎼 Folders 🔢 🕂 | | | |
| ldress 😼 My Computer | | | | 💌 🄁 Go |
| | Name | Туре | Total Size | Free Space |
| System Tasks | Hard Disk Drives | | | |
| View system information | Local Disk (C:) | Local Disk | 148 GB | 107 GB |
| Add or remove p Shows in | ormation about your computer, such as the processor speed and th | e amount of installed memory. | | |
| Change a setting | Devices with Kemovable Storage | | - | |
| | 31/2 Floppy (A:) | 31/2-Inch Floppy Disk | | |
| Other Places | DVD-RW Drive (D:) | CD Drive | | |
| en | Removable Disk (V:) | Removable Disk | | |
| Second Se | Removable Disk (W:) | Removable Disk | | |
| My Documents | Removable Disk (X:) | Removable Disk | | |
| 🚱 Control Panel | Removable Disk (Z:) | Removable Disk | | |
| | Network Drives | | | |
| Details | 8 | | | |
| Local Diels (C) | PROcommon on 'co-ops-s-pro1' (H:) | Network Drive | | |
| Local Disk | station_riles on Hie Server (6th Hoor) (co-ops-s-ssmc2) | (K:) Network Drive | 1.36 18 | /62 GB |
| File System: NTFS | Software on 'co-ops-s-pro1' (5:) | Network Drive | 408 GB | 321 GE |
| Free Space: 107 GB | Tuata on co-ops-s-pro1' (T:) | Network Drive | 1.63 TB | 1.53 TB |
| Total Size: 148 GB | Subsers on 'co-ops-s-pro1' (U:) | Network Drive | 1.63 TB | 1.46 TB |
| | | | | |

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c) In the "System Properties" window that pops up, choose the "Hardware" tab.



d) Click on "Device Manager"

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e) Scroll down to "Ports (COM & LPT)" and expand using the [+] box f)Ensure that Xterm is set to the appropriate COM Port shown



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| X XTerm COM7:115200 /U super /P ***** | |
|---------------------------------------|----------------|
| | ORX OTX |
| | OXp OEm |
| | |
| | File I ransfer |
| | |
| | Set Clock |
| | |
| | Connect |
| | |
| | Upgrade |
| | N N N |
| | Status |
| | |
| | 🔽 Web Server |
| | |
| | 🔽 Auto Update |
| | |
| | |
| | |
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| | |
| | |
| | |
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| | |

SYMPTOM: Persistent white screen during boot up

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***NOTE:** The Xpert does take a while to boot up and connect. In general, if you see the "Rx" and "Tx" buttons flashing, the Xpert is still booting. If the white screen persists for more than 15 minutes, try the following:

- 1) Perform a "hard reboot" on the Xpert: disengage and reengage the 1 Amp fuse
- 2) Contact the Seattle Instrument Lab at (206) 526-6915 for a walk through of re-loading the Xpert operating system

SYMPTOM: Not transmitting via Iridium

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- 1) Ensure that the Iridium antenna has a clear view of the sky
- 2) Double check your Iridium cable connections to the antenna and the Portable Tide Gauge enclosure. Also double check the connections inside the PTG enclosure between the Pelican case and the 9210B DCP (small black cable).
- 3) Check the signal strength and status of the Iridium modem, click the tab labeled Iridium. This tab will show the modem status, it's next scheduled transmit time and signal quality. Click update to get the most recent signal strength.

| 🦟 XTerm COM2:115200 /U SUPER | | _ 0 X |
|---|------------|---|
| Main Setup Sensors Iridium Data Log Status | | ⊂ Bx ⊂ Tx |
| Modem status: SelfTimed Tx | | File Transfer Set Clock |
| Next task: SelfTimed | | Connect |
| Next task time: 19:00:00 | (19:00:18) | Upgrade |
| Last msg rx: None | More | 🔽 Web Server |
| Signal quality: <mark>3 (0-5)</mark> | Update | ✓ Auto Update Right click for more options. |
| Self-timed statistics Total data statistics | | |
| Alarm statistics Test tr | ansmission | |

- 4) Check the other properties of the Iridium transmission.
 - a) Expand Iridium by clicking on the +



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b) Select "Transmit" and click "Edit...

| | - 0 X |
|--|----------------------------------|
| Main Setup Sensors Iridium Data Log Status | CRx CTx ⊙Xp CErr |
| Coms (SSP/CL) EZSetup Measurements Graphical Setup | File Transfer Set Clock Connect |
| ⊡ I/O Modules | Upgrade Status Veb Server |
| LAN Settings LAN files ▼ | Right click for more options. |
| Edit | |

c) The "Transmit" window contains the Iridium TX interval, transmission time and transmission format. Make sure that Include Header is **NOT** checked.

| XTerm COM2:115200 /U SUPER | | |
|--|----------------------------------|--|
| Main Setun Sensors Tridium Data Lon Status | | |
| Iridium Transmission Settings 🛛 🗙 | | |
| TxInterval: D1:00:00 OK | Set Clock Connect | |
| TxTime: 00:00:00 Cancel | Upgrade | |
| TxFormat: PseudoBin-C 🔽 Content | <u>Status</u> | |
| Num Values: 4 | Auto Update | |
| AlarmData: 🛛 AllSensors 🛛 💌 | Right click for more options. | |
| 🗌 Include header | | |
| | | |



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| ン XTerm COM4:115200 /U super /P ***** | |
|--|---|
| Main Setup Sensors Data Log Status | ORx OTx ⊙Xp OEm |
| Station Info Station Status Date/Time: 04/21/2010 16:15:50 OFF Station name: 99999011 OFF Battery voltage Ext: 13.5 Logout | File Transfer Set Clock Connect Upgrade Status Veb Server Auto Update |

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This is fine. This occurs if a log file is deleted from the SD storage card or Xpert flash disk. The Xpert will recreate the missing file for you; however it may take a LONG time. So, go get a cup of coffee or enjoy the scenery while the Xpert works.

- 7) Quality Assurance/Control: Problems with the PTG units or any erroneous content in this SOP should be directed to the Seattle Instrument Lab (SIL) via email (sil@noaa.gov) or phone (206-526-6915, 206-526-6923, or 206-526-6360).
- 8) Management/Responsibility: The Seattle Instrument Lab (SIL)Team Lead is responsible for maintaining this SOP.



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