



IMPROVE

Interagency Monitoring of Protected Visual Environments

2020 CALENDAR

IMPROVE is a collaborative association of state, tribal, and federal agencies, and international partners. US Environmental Protection Agency is the primary funding source, with contracting and research support from the National Park Service. The Air Quality Research Center (AQRC) at the University of California, Davis provides field maintenance and operator support, sample handling, elemental analysis, and data processing; Research Triangle Institute (RTI) performs ions analysis; and Desert Research Institute (DRI) performs carbon analysis. IMPROVE data and

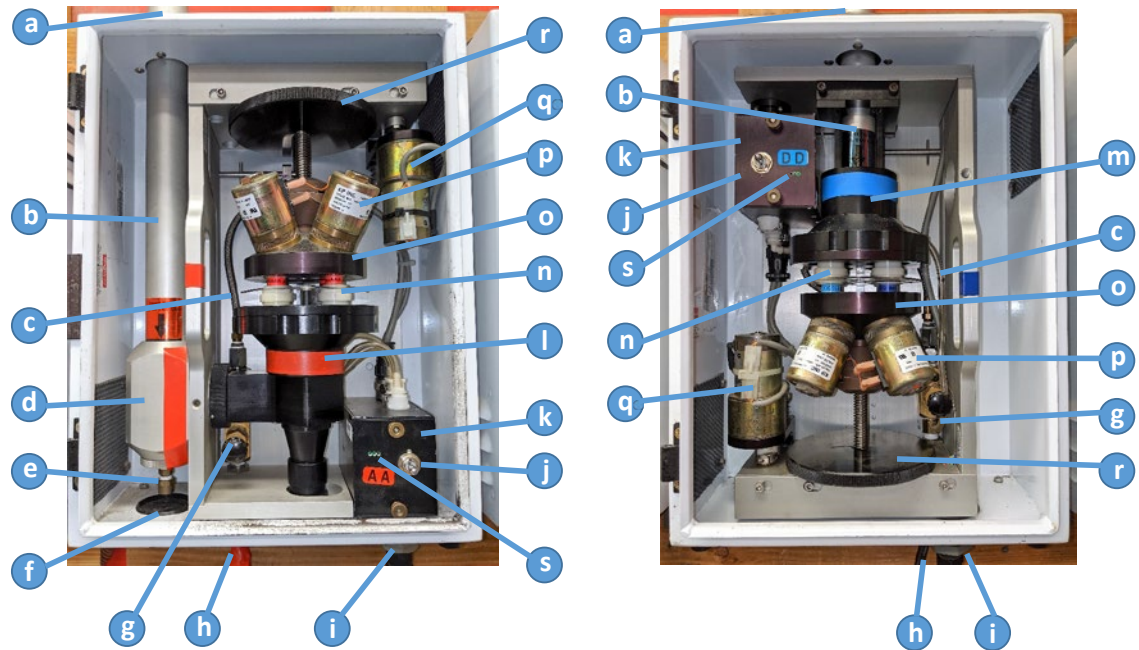
documentation are available from the website <http://vista.cira.colostate.edu/improve/> maintained by the Cooperative Institute for Research in the Atmosphere (CIRA).

For questions or problems with optical or scene monitoring equipment, contact Mark Tigges, Air Resource Specialists, Fort Collins, CO at 970-224-9300. For questions or problems with air sampler controllers, filters or flow checks, contact Air Quality Research Center, UC Davis at 530-752-1123, improvehelpdesk@ucdavis.edu, or visit <https://aqrc.ucdavis.edu/resources-for-operators>.





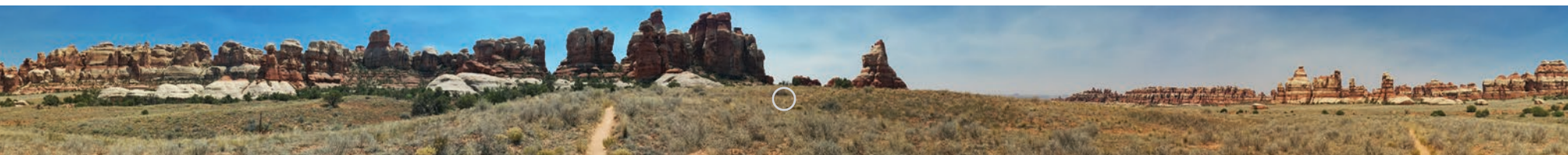
QUICK REFERENCE: MODULE SCHEMATIC



- a. stack compression sleeve
- b. inlet stack
- c. braided hose
- d. inlet tee
- e. tee plug
- f. black cap
- g. flow control valve
- h. pump hose connector
- i. module cable connector
- j. motor control toggle switch
- k. electronics box (ebox)
- l. cyclone
- m. funnel
- n. cartridge with 4 filter cassettes
- o. solenoid manifold
- p. solenoid valve (4)
- q. motor assembly to raise solenoid manifold
- r. handwheel (flywheel) to raise manifold
- s. Ebox status LED lights

IMPROVE operator training videos: <https://aqrc.ucdavis.edu/resources-for-operators>

UC Davis General Lab: 530-752-1123
 IMPROVE Help Desk: improvehelpdesk@ucdavis.edu



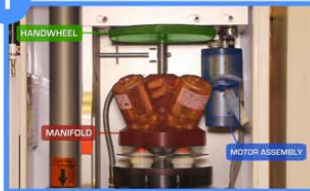


QUICK REFERENCE: OPERATOR TROUBLESHOOTING



Disengaging Manifold Motor to Manually Raise/Lower the Manifold

1



Locate the motor assembly in the module.

4



Spin the hand wheel to the right to lower the manifold.

2



Separate the motor assembly from the coupling sliding the assembly down. Then pivot it towards to the hand wheel.

4.a



The spinning direction to raise and lower the manifold is opposite for the D module.

2.a



A gentle wiggle may be required to slide the assembly up or down.

5



If the motor starts to work again it can be reengaged with the hand wheel. Pivot the motor assembly back to its original location.

3



For the A, B, and C modules spin the hand wheel to the left to raise the manifold.

6



Rotate the hand wheel until the coupling snaps into alignment.

Electronics-Box Replacement

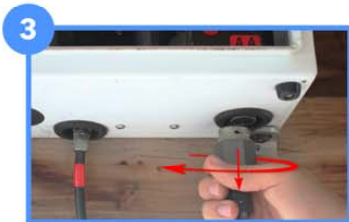
(For A,B, and C modules. For the D module skip steps 3 and 9)



1 Disconnect the Orifice (ORI) and Cyclone (CYC) hoses by depressing the metal clasp and pulling on the hose.



2 Disconnect the grey cable located on top of the box by turning the metal collar counter-clockwise.



3 Disconnect the grey module cable at the bottom of the module, by turning the connector body counter-clockwise.



4 Loosen the brass knobs located on the black electronics box.



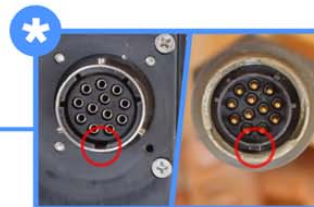
5 Remove old electronics box and insert the new box.



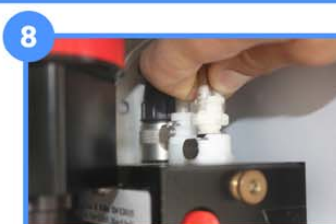
6 Tighten the brass knobs.



7 Re-connect grey cable on the top of the box.



(line up the key and keyway when connecting the electronic connectors)



8 Re-connect the hoses to the electronics box.



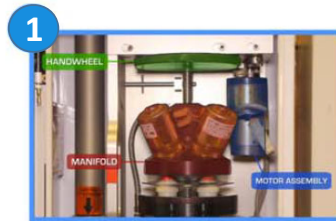
9 Re-connect the bottom grey module cable.



QUICK REFERENCE: OPERATOR TROUBLESHOOTING



Replacing Plastic Motor Coupler



1 Locate the motor assembly in the module



4 If the plastic motor coupler does not line up with the upper hub, use the hand wheel to put it into place



2 Separate the motor assembly from the coupling sliding the assembly down. Then pivot it towards the hand wheel.



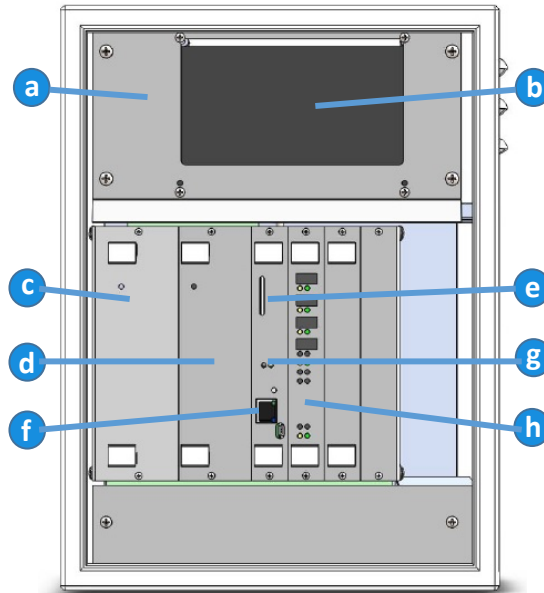
3 Remove the old plastic coupler and place the new one in. Make sure to center it on the metal hub.



5 The motor should slide into place and the upper and lower hubs should fit securely into the plastic motor coupler

QUICK REFERENCE: CONTROLLER

Controller Information



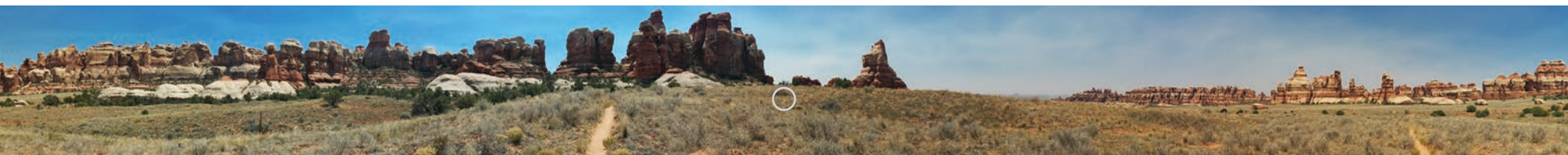
- | | |
|---------------------------|------------------|
| a. Display Faceplate | e. SD Card Slot |
| b. LCD Touch Screen | f. Ethernet Port |
| c. 5 V Power Supply Card | g. CPU Card |
| d. 24 V Power Supply Card | h. Hub Card |

Home Page Description

- 1 Today's date and time
- 2 Site name
- 3 How long the controller has been running
- 4 Temperature probe Readings
- 5 Current week's filters
- 6 Sampling status
- 7 Perform Filter Readings
- 8 Help Page
- 9 Controller and module information
- 10 Configuration menu for configuring controller and modules

The screenshot shows a home page with a navigation sidebar on the left containing icons for Home, Back, Status, Page ID (HELP2), and Help. The main content area displays: 01/29/18 12:58:23, ABCD9 up 1 hour, -1.10°C, Week 2 Filters installed, Sampling, Filter Readings, and buttons for Help, Info, and Menu.

- ← Click here at anytime to go to the home page.
- ← Click here at anytime to go to the previous page.
- ← This indicates the controller's status. If it's red or yellow a problem has been detected. Press button to enter troubleshooting mode.
- ← Page: HELP1. ← The current page ID.
- ← While viewing most page, clicking this button will give you more information.



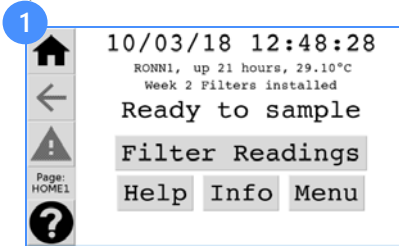


QUICK REFERENCE: CONTROLLER

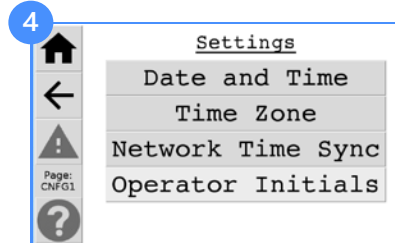


Change Date/Time on New Controller

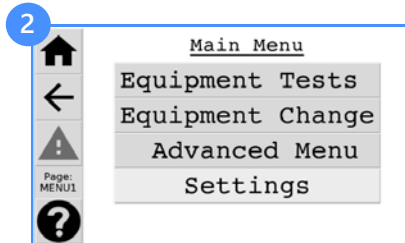
(If the controller is connected to the internet please only edit the time zone)



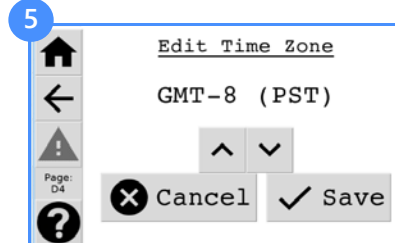
Press the 'Menu' on the home screen.



Press 'Time Zone'



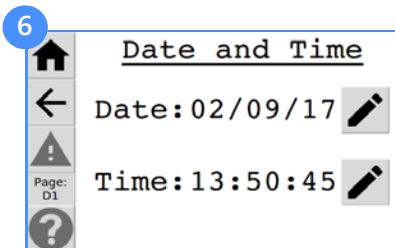
Press 'Settings'



Use up/down arrows to select the time zone offset based on step 3



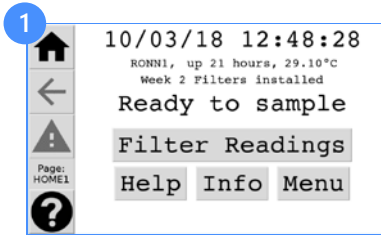
Look up your time zone on the reference map and note the corresponding GMT offset in **Bold**



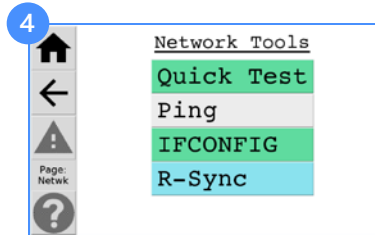
Only if your site is **not** connected to the internet do you select the "Date and Time" option in step 4 to manually edit the time.

Press the icon to edit the time

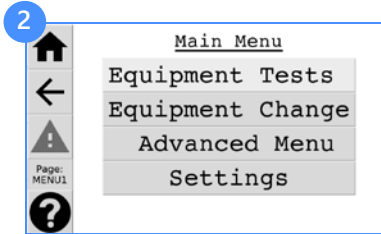
Test Network Connection and Send Data to Server



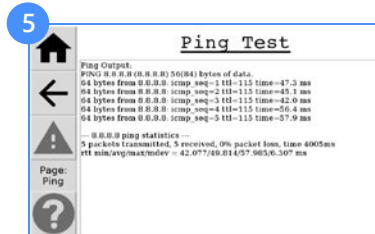
Press the 'Menu' on the home screen.



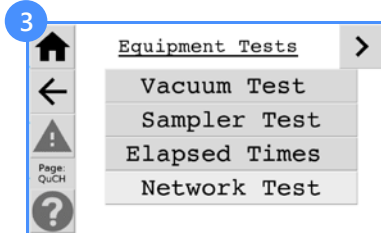
Press 'Ping'



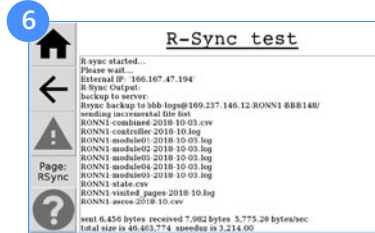
Press 'Equipment Tests'



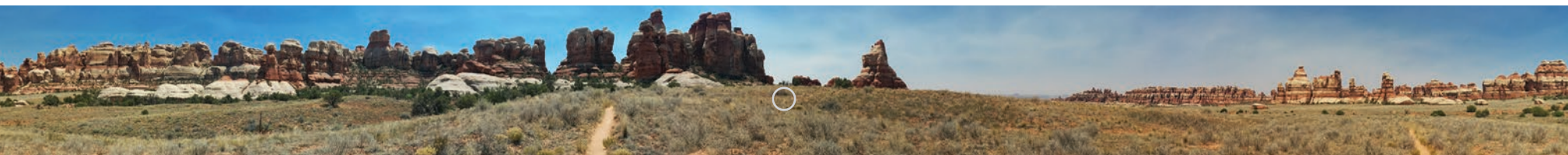
Read the output of the test. If the 2nd to last line reads '5 packets transmitted, 5 received, 0% packet loss' then the controller is successfully connected to the internet



Press 'Network Test'



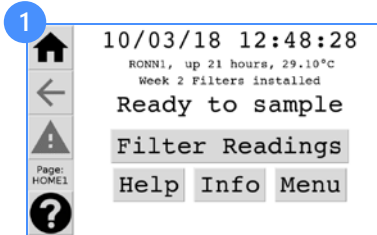
Press the ← button to go back to 'Network Tools' then select the 'R-Sync' option. This will send the controller data back to the server.



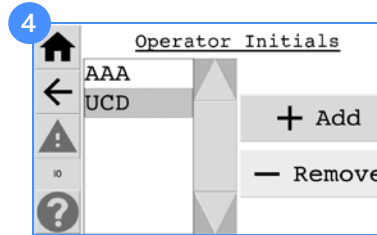
QUICK REFERENCE: CONTROLLER



Manage Operator Initials on New Controller

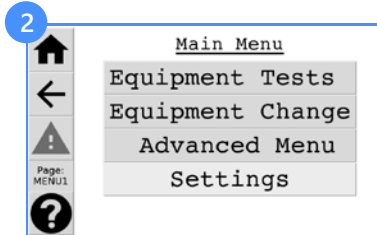


Press the 'Menu' on the home screen.



Select the initials you wish to remove, then press 'Remove'

If you wish to add initials press 'Add'

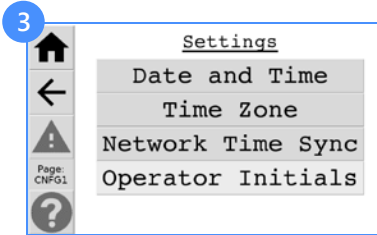


Press 'Settings'



When adding initials use the up/down arrows to edit a letter, and left/right arrows to move the cursor.

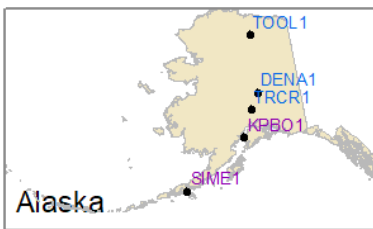
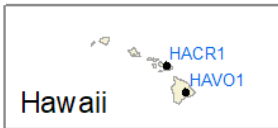
Please use 3 letter initials for clarity.



Press 'Operator Initials'



* Inserts not to scale



Effective 10/9/2019



TUMALO FALLS: Near Three Sisters Wilderness, OR (THS1) *Josh Grant*

JANUARY 2020

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PINE CREEK CANYON: Near Meadview, AZ (MEAD1) *Josh Grant*

FEBRUARY 2020

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CHUGACH MOUNTAINS: Near Kenai Peninsula, AK (KPBO1) Josh Grant

MARCH 2020

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MATANUSKA GLACIER: Near Trapper Creek, AK (TRCR1) *Josh Grant*

APRIL 2020

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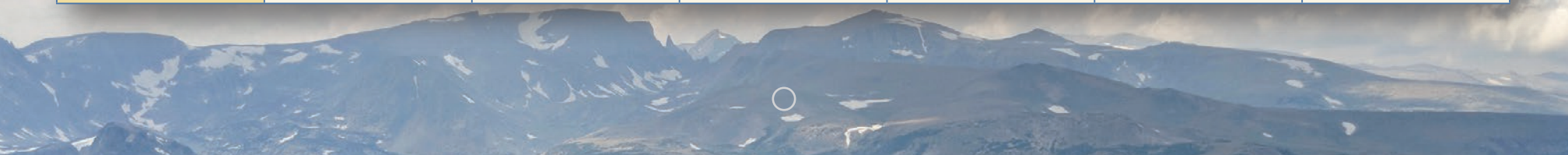




NEAH BAY: Near Makah Tribal Reservation (MAKA2) Josh Grant

MAY 2020

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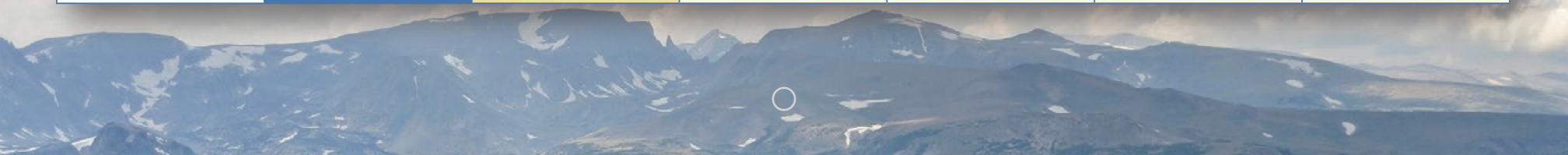




TOOLIK LAKE: Near Toolik Lake, AK (TOOL1) *Josh Grant*

JUNE 2020

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BAENGYEONGDO: Near Baengnyeongdo Island, South Korea (BYIS1) Josh Grant

JULY 2020

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<p>19</p>	<p>20</p> <p>IMPROVE Particle Sampling Day</p>	<p>21</p> <p>3-2-2 Week 3 2-3-2 Week 1</p> <p>Change IMPROVE Particle cartridges</p>	<p>22</p> <p><i>Alternate Sample Change Day</i></p>	<p>23</p> <p>IMPROVE Particle Sampling Day</p>	<p>24</p>	<p>25</p>																																																																																											
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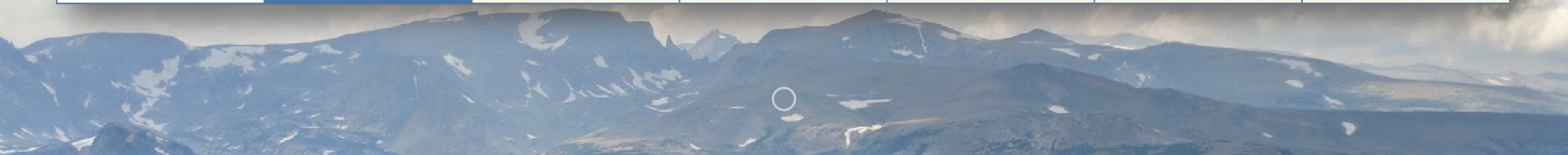




INDIAN CREEK: Near Canyonlands NP, UT (CANY1) Josh Grant

AUGUST 2020

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY																																																																																				
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BIG ARROYO: Near Sequoia NP, CA (SEQU1) Josh Grant

SEPTEMBER 2020

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		3-2-2 Week 3 1 2-3-2 Week 1 Change IMPROVE Particle cartridges	2 <i>Alternate Sample Change Day</i>	3 IMPROVE Particle Sampling Day	4	5
6 IMPROVE Particle Sampling Day	Labor Day 7 <i>Alternate Sample Change Day</i>	3-2-2 Week 1 8 2-3-2 Week 2 Change IMPROVE Particle cartridges	9 IMPROVE Particle Sampling Day	10	11	12 IMPROVE Particle Sampling Day
13 <i>Alternate Sample Change Day</i>	14 <i>Alternate Sample Change Day</i>	3-2-2 Week 2 15 2-3-2 Week 3 Special cartridge change: move cassette 3 from old cartridge to new. IMPROVE Particle Sampling Day	16 <i>Alternate Sample Change Day</i>	17 <i>Alternate Sample Change Day</i>	18 IMPROVE Particle Sampling Day	19
20	21 IMPROVE Particle Sampling Day	3-2-2 Week 3 22 2-3-2 Week 1 Change IMPROVE Particle cartridges	23 <i>Alternate Sample Change Day</i>	24 IMPROVE Particle Sampling Day	25	26
27 IMPROVE Particle Sampling Day	28 <i>Alternate Sample Change Day</i>	3-2-2 Week 1 29 2-3-2 Week 2 Change IMPROVE Particle cartridges	30 IMPROVE Particle Sampling Day		AUGUST 2020 S M T W T F S 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	OCTOBER 2020 S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31





OCTOBER 2020

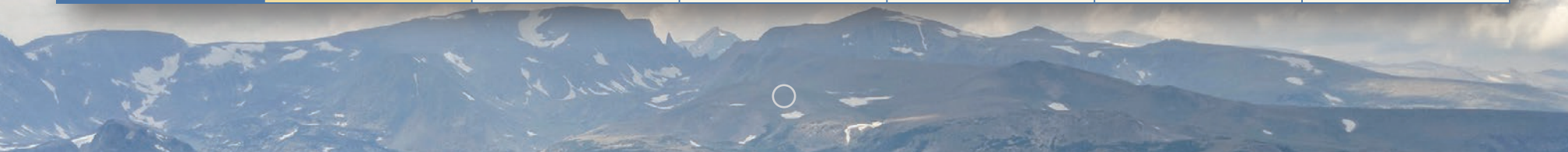
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4 Alternate Sample Change Day	5 Alternate Sample Change Day	6 3-2-2 Week 2 2-3-2 Week 3 Special cartridge change: move cassette 3 from old cartridge to new. IMPROVE Particle Sampling Day	7 Alternate Sample Change Day	8 Alternate Sample Change Day	9 IMPROVE Particle Sampling Day	10
11	Columbus Day 12 IMPROVE Particle Sampling Day	13 3-2-2 Week 3 2-3-2 Week 1 Change IMPROVE Particle cartridges	14 Alternate Sample Change Day	15 IMPROVE Particle Sampling Day	16	17
18 IMPROVE Particle Sampling Day	19 Alternate Sample Change Day	20 3-2-2 Week 1 2-3-2 Week 2 Change IMPROVE Particle cartridges	21 IMPROVE Particle Sampling Day	22	23	24 IMPROVE Particle Sampling Day
25 Alternate Sample Change Day	26 Alternate Sample Change Day	27 3-2-2 Week 2 2-3-2 Week 3 Special cartridge change: move cassette 3 from old cartridge to new. IMPROVE Particle Sampling Day	28 Alternate Sample Change Day	29 Alternate Sample Change Day	30 IMPROVE Particle Sampling Day	31



BEARTOOTH PASS: Near North Absaroka Wilderness (NOAB1) Josh Grant

NOVEMBER 2020

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22	23	24 3-2-2 Week 3 2-3-2 Week 1	25	26 Thanksgiving Day	27	28																																																																																					
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29	30				<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>OCTOBER 2020</p> <table border="1"> <thead> <tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> </thead> <tbody> <tr><td></td><td></td><td></td><td></td><td>1</td><td>2</td><td>3</td></tr> <tr><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td></tr> <tr><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td></tr> <tr><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td></tr> </tbody> </table> </div> <div style="text-align: center;"> <p>DECEMBER 2020</p> <table border="1"> <thead> <tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> </thead> <tbody> <tr><td></td><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td></tr> <tr><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td></tr> <tr><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr> <tr><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td></td><td></td></tr> </tbody> </table> </div> </div>		S	M	T	W	T	F	S					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	S	M	T	W	T	F	S				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
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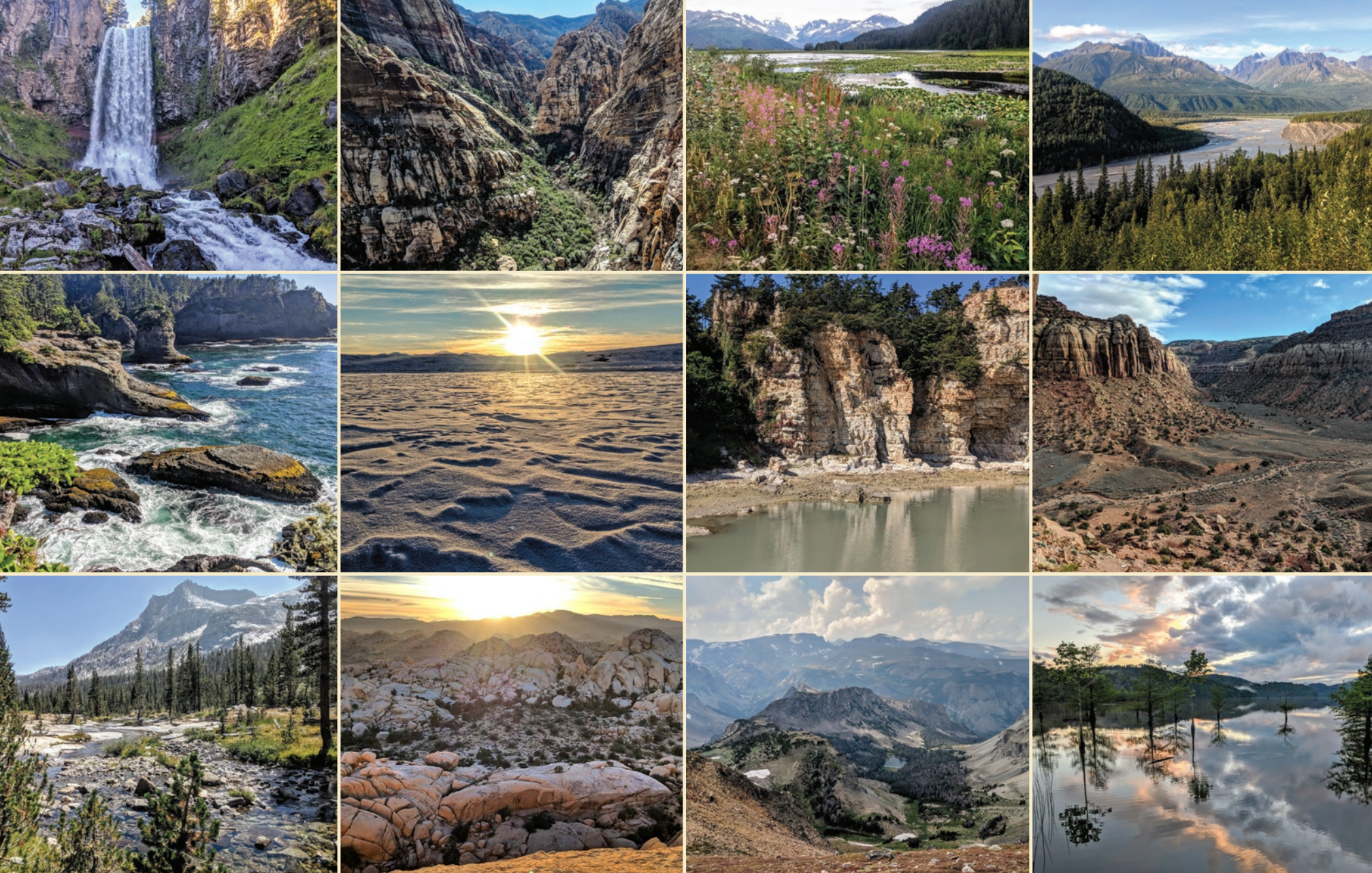




LAKE OCOEE: Near Cohutta, GA (COHU1) *Josh Grant*

DECEMBER 2020

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY																																																																																				
		3-2-2 Week 1 2-3-2 Week 2 1 Change IMPROVE Particle cartridges	2 IMPROVE Particle Sampling Day	3	4	5 IMPROVE Particle Sampling Day																																																																																				
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27 Alternate Sample Change Day	28 Alternate Sample Change Day	3-2-2 Week 2 2-3-2 Week 3 29 Special cartridge change: move cassette 3 from old cartridge to new. IMPROVE Particle Sampling Day	30 Alternate Sample Change Day	31 Alternate Sample Change Day	<p>NOVEMBER 2020</p> <table border="1"> <thead> <tr> <th>S</th> <th>M</th> <th>T</th> <th>W</th> <th>T</th> <th>F</th> <th>S</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> </tr> <tr> <td>8</td> <td>9</td> <td>10</td> <td>11</td> <td>12</td> <td>13</td> <td>14</td> </tr> <tr> <td>15</td> <td>16</td> <td>17</td> <td>18</td> <td>19</td> <td>20</td> <td>21</td> </tr> <tr> <td>22</td> <td>23</td> <td>24</td> <td>25</td> <td>26</td> <td>27</td> <td>28</td> </tr> <tr> <td>29</td> <td>30</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30						<p>JANUARY 2021</p> <table border="1"> <thead> <tr> <th>S</th> <th>M</th> <th>T</th> <th>W</th> <th>T</th> <th>F</th> <th>S</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1 2</td> </tr> <tr> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> </tr> <tr> <td>10</td> <td>11</td> <td>12</td> <td>13</td> <td>14</td> <td>15</td> <td>16</td> </tr> <tr> <td>17</td> <td>18</td> <td>19</td> <td>20</td> <td>21</td> <td>22</td> <td>23</td> </tr> <tr> <td>24</td> <td>25</td> <td>26</td> <td>27</td> <td>28</td> <td>29</td> <td>30</td> </tr> </tbody> </table>	S	M	T	W	T	F	S							1 2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
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Photographs taken by IMPROVE Field Engineer, Josh Grant. Cover Photo: HALF DOME (YOSEMITE NP) Josh Grant

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Interagency Monitoring of Protected Visual Environments