Bi-Weekly Check Log - AERONET Cimel Sunphotometer

This checklist serves to evaluate instrument operational status and maintain data quality standards. Please complete it every two weeks and send e-copy or a picture of it to you AERONET main contact.

Date: (yyyy-mm-dd)	**Time**: (hh:mmUTC)	**Aeronet Site Name:**

Weather	☐ Sunny ☐ Cloudy ☐ Rainy
Take Picture	☐ Take pictures of the instrument, cable routing and inside the box showing all connections before troubleshooting. Take detailed pictures before changing anything and send them to your Aeronet main contact
Start Maintenance	☐ Change the mode from Auto "**ON**" to "**OFF**" before performing maintenance. **SETTINGS>AUTO→OFF**
Instrument Appearance	☐ Check and clean spider web or insect nest off any part of the robot. (please note at the bottom if any.) ☐ Check for water or moisture inside the Deployment box and control box ☐ Inspect all cables and external battery for damage or corrosion (oxidation) ☐ Verify the cables do not interfere with the operation of the robot (tangles/restrictions) ☐ Clean the dirt or foreign objects inside the collimators. Detach the collimator from the sensor head and use brush to clean the collimator. **!!! DO NOT TOUCH OR CLEAN THE LENS**. ☐ Clean the four-quadrant sensor if dirty (small black circle near lens)
Function Test	☐ Check the operation of robot. If any of the following is not okay, please note at the bottom. **SCENARIOS>PARK>GOSUN>TRACKSUN>PARK** ☐ Go to Scenario: **PARK** and record ZN sar/sae: _____ AZ sar/sae: _____ ☐ Go to Scenario: **GOSUN** (Take a picture of the sunspot on the base of the collimator) ☐ Go to Scenario: **TRACKSUN** ☐ Is the sunspot pointing exactly at the center of the circular mark?
Power, Wet sensor and Time setting	☐ Check the functioning of Wet Sensor. **MEASURES> scroll down to "Wetting"** ☐ Check external battery voltage is above 12V, Vsolar has voltage reading and confirm battery and solar panel are connected to the control box. Battery Voltage: _____V Vsolar: _____V ☐ Check if the control box time is within 10 seconds of UTC
End Maintenance	☐ Change the mode from Auto "**OFF**" to "**ON**" after performing maintenance. **SETTINGS>AUTO→ON** ☐ Close and latch the deployment box. ☐ Wait for the first observation and make sure that the instrument points towards the sun correctly.

Remarks (Please note and report any abnormal condition of the instrument or surrounding below):