| LOCATION (WGS 1984) | LATITUDE  | LONGITUDE   | ELEVATION (m) |
|---------------------|-----------|-------------|---------------|
| SFO_LOCATION        | 37.310723 | -122.186204 | 701           |
| NPUR_LOCATION       | 37.45018  | -122.339407 | 613           |

## INSTRUMENTATION AND EQUIPMENT

Fog Water Collector System Stainless steel frame to hold up to six 1m2 mesh inner frames

Texas Instruments TE525/TE52One TBRG per meshframe

RM Young 05103 (Wind Speed, Direction)

Campbell Scientific CS215 Temperature & Relative Humidity Sensor

Campbell Scientific CS300 Pyranometer

Campbell Scientific CR1000 datalogger with SDM-SW8A Channel Switch Closure Module for TBRG

Campbell Scientific SP20 Solar Panel; PS150 12v Charging Regulator and deep-cycle 12V marine battery

The dataset has 3 data files: SFO\_FOG1\_CR1000.2017

Metadata headers for Skyline Field Office (SFO) and North Purisima (NPUR) data

## SFO\_FOG1\_CR1000.2017

| <i>INPUT</i><br>RN | <i>Units</i><br>number | <i>Description</i><br>Unique identier  | Source<br>CR1000 | <i>CR1000_LABEL</i> RECORD |
|--------------------|------------------------|--|------------------|----------------------------|
| TS                 | Date hr:mn:s           | Data recorded every minute but only when tips are occuring (no records if no tips)       | CR1000           | TIMESTAMP                  |
| T_INT              | minutes                | Time since last record (used to calculated radiation and wind speed values)              | spreadsheet      | Time interval              |
| TOT1UR             | ml                     | total ml/min from 1m2 uncoated raschel mesh calibration 1 tip = 5.1 ml                   |                  | FOGInput_1min_Tot(1)       |
| TOT2NBD1R          | ml                     | total ml/min from 1m2 NBD formula 1 coated raschel mesh @SFO, calibration 1 tip = 5.0 ml | CR1000           | FOGInput_1min_Tot(2)       |

|                             |               | total ml/min from 1m2 uncoated Fog-<br>HA-Tin mesh @SFO, calibration 1 tip = |          |                      |
|-----------------------------|---------------|--|----------|----------------------|
| TOT3UF                      | ml            | 4.95 ml  | CR1000   | FOGInput_1min_Tot(3) |
|                             |               | total ml/min from 1m2 NBD formula 2  |          |                      |
| TOT4NBD2R                   | ml            | coated raschel mesh @SFO,<br>calibration 1 tip = 4.95 ml                     | CR1000   | FOGInput_1min_Tot(4) |
| TOTANDDZIN                  |               | total ml/min from 1m2 uncoated   | CN1000   | 100mpat_1mm_10t(4)   |
|                             |               | raschel mesh @SFO, calibration 1 tip =                                       |          |                      |
| TOT5UR                      | ml            | 4.76 ml  | CR1000   | FOGInput_1min_Tot(5) |
|                             |               | total ml/min from 1m2 NBD coated   |          |                      |
|                             |               | Fog-HA-Tin mesh @SFO, calibration 1  |          |                      |
| TOT6NBDF                    | ml            | tip = 4.9 ml   | CR1000   | FOGInput_1min_Tot(6) |
|                             |               | Maximum Net Radiation over time  |          |                      |
| SR_MAX                      | kW/m^2        | interval   | CR1000   | SlrkW_2_Max          |
| SR_MIN                      | kW/m^2        | Minumum Net Radiation over time interval                                     | CR1000   | SlrkW_2_Min          |
| 311_1V1111V                 | KVV/111 Z     | micer van  | CNIOOO   | 311KVV_2_IVIIII      |
| WS_MAX                      | meters/second | Maximum wind speed   | CR1000   | WS_ms_Max            |
|                             |               |  |          |                      |
| WS_AVE                      | meters/second | Average wind speed   | CR1000   | WS_ms_S_WVT          |
| WD_AVE                      | Deg           | Average wind direction   | CR1000   | WindDir_D1_WVT       |
|                             | 208           | Standard deviation of all wind   | C.1.2000 |                      |
| WD_SD                       | Deg           | direction vectors  | CR1000   | WindDir_SD1_WVT      |
|                             |               |  |          |                      |
| NPUR_FOG2_CR1000.2017 INPUT | Units         | Description  | Source   | CD1000 LAREL         |
| INPUT                       | Units         | Description  | Source   | CR1000_LABEL         |
|                             |               |  |          |                      |
|                             |               |  |          |                      |
| RN                          | number        | Unique identier  | CR1000   | RECORD               |
|                             |               |  |          |                      |

|          | 5            | Data recorded every minute but only when tips are occuring (no records if                | 004000      | TIMESTAME            |
|----------|--------------|--|-------------|----------------------|
| TS       | Date hr:mn:s | no tips)   | CR1000      | TIMESTAMP            |
| T_INT    | minutes      | Time since last record (used to calculated radiation and wind speed values)              | CR1000+CALC | Time interval        |
| TOT1UM   | ml           | total ml/min from 1m2 uncoated<br>metal mesh @NPUR, calibration 1 tip<br>= 5.05 ml       | CR1000+CALC | FOGInput_1min_Tot(1) |
| TOT2UR   | ml           | total ml/min from 1m2 uncoated raschel mesh @NPUR, calibration 1 tip = 5.0 ml            | CR1000+CALC | FOGInput_1min_Tot(2) |
| TOT3UF   | ml           | total ml/min from 1m2 uncoated Fog-<br>HA-Tin mesh @NPUR, calibration 1 tip<br>= 5.1 ml  | CR1000+CALC | FOGInput_1min_Tot(3) |
| TOT4NBDM | ml           | total ml/min from 1m2 NBD coated<br>metal mesh @NPUR, calibration 1 tip<br>= 5.15 ml     | CR1000+CALC | FOGInput_1min_Tot(4) |
| TOT5NBDR | ml           | total ml/min from 1m2 NBD coated raschel mesh @NPUR, calibration 1 tip = 4.67 ml         | CR1000+CALC | FOGInput_1min_Tot(5) |
| TOT6NBDF | ml           | total ml/min from 1m2 NBD coated<br>Fog-HA-Tin mesh @NPUR, calibration<br>1 tip = 4.9 ml | CR1000+CALC | FOGInput_1min_Tot(6) |

|                              |               | Maximum Net Radiation over the time                           |                          |                      |
|------------------------------|---------------|---|--------------------------|----------------------|
| SR_MAX                       | kW/m^2        | interval (see note)   | CR1000                   | SlrkW_2_Max          |
|                              |               |   |                          |                      |
|                              |               | Minumum Net Radiation over the                                |                          |                      |
| SR_MIN                       | kW/m^2        | time interval (see note)                                      | CR1000                   | SlrkW_2_Min          |
| WS_MAX                       | meters/second | Maximum wind speed  | CR1000                   | WS_ms_Max            |
| WS_AVE                       | meters/second | Average wind speed  | CR1000                   | WS_ms_S_WVT          |
| WD_AVE                       | Deg           | Average wind direction  | CR1000                   | WindDir_D1_WVT       |
|                              |               | Standard deviation of all wind                                |                          |                      |
| WD_SD                        | Deg           | direction vectors   | CR1000                   | WindDir_SD1_WVT      |
| CEO FOCA CDECEDUM 2016       |               |   |                          |                      |
| SFO_FOG1_SPECTRUM.2016 INPUT | Units         | Description   | Source                   | SPECTRUM_LABEL_LOGGE |
| Date                         | Date          | number  |                          | or                   |
| 2 3 3 3                      |               | total ml/min from 1m2 uncoated                                | uncoated raschel         |                      |
|                              |               | raschel mesh @SFO, calibration                                |                          |                      |
| F2UR                         | ml            | coefficient 146   |                          | BUCKET19.9859        |
| . 2011                       |               | total ml/min from 1m2 uncoated Fog-                           | uncoated German (Spacer) | 20011211313033       |
|                              |               | HA-Tin mesh @SFO, calibration                                 | constant (opened)        |                      |
| F3UF                         | ml            | coefficient 118   |                          | BUCKET12.10619       |
| 1301                         |               |   | coated metal             | BOCKE 112.10013      |
|                              |               | total ml/min from 1m2 NBD coated metal mesh @SFO, calibration | coatea metai             |                      |
| F4NBDM                       | ml            | coefficient 132   |                          | BUCKET11.10629       |
| F4NDDIVI                     | 1111          |   | coated raschel           | BOCKE 111.10029      |
|                              |               | total ml/min from 1m2 NBD coated                              | coated rascrier          |                      |
| FENDOD                       |               | raschel mesh @SFO, calibration                                |                          | DUCKET40 40636       |
| F5NBDR                       | ml            | coefficient 138   | sected Common (Consen)   | BUCKET18.10626       |
|                              |               | total ml/min from 1m2 NBD coated                              | coated German (Spacer)   |                      |
|                              |               | Fog-HA-Tin mesh @SFO, calibration                             |                          |                      |
| F6NBDF                       | ml            | coefficient 134   |                          | BUCKET20.10618       |