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/TE5: One 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

INPUT	***Units***	***Description***	***Source***	***CR1000_LABEL***
RN	number	Unique identier	CR1000	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	CR1000	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)

TOT3UF	ml	total ml/min from 1m2 uncoated Fog-HA-Tin mesh @SFO, calibration 1 tip = 4.95 ml	CR1000	FOGInput_1min_Tot(3)
TOT4NBD2R	ml	total ml/min from 1m2 NBD formula 2 coated raschel mesh @SFO, calibration 1 tip = 4.95 ml	CR1000	FOGInput_1min_Tot(4)
TOT5UR	ml	total ml/min from 1m2 uncoated raschel mesh @SFO, calibration 1 tip = 4.76 ml	CR1000	FOGInput_1min_Tot(5)
TOT6NBDF	ml	total ml/min from 1m2 NBD coated Fog-HA-Tin mesh @SFO, calibration 1 tip = 4.9 ml	CR1000	FOGInput_1min_Tot(6)
SR_MAX	kW/m^2	Maximum Net Radiation over time interval	CR1000	SlrkW_2_Max
SR_MIN	kW/m^2	Minumum Net Radiation over time interval	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
WD_SD	Deg	Standard deviation of all wind direction vectors	CR1000	WindDir_SD1_WVT

NPUR_FOG2_CR1000.2017

INPUT	***Units***	***Description***	***Source***	***CR1000_LABEL***
RN	number	Unique identier	CR1000	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)	CR1000+CALC	Time interval
TOT1UM	ml	total ml/min from 1m2 uncoated metal mesh @NPUR, calibration 1 tip = 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-HA-Tin mesh @NPUR, calibration 1 tip = 5.1 ml	CR1000+CALC	FOGInput_1min_Tot(3)
TOT4NBDM	ml	total ml/min from 1m2 NBD coated metal mesh @NPUR, calibration 1 tip = 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 Fog-HA-Tin mesh @NPUR, calibration 1 tip = 4.9 ml	CR1000+CALC	FOGInput_1min_Tot(6)

SR_MAX	kW/m^2	Maximum Net Radiation over the time interval (see note)	CR1000	SlrkW_2_Max
SR_MIN	kW/m^2	Minumum Net Radiation over the 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
WD_SD	Deg	Standard deviation of all wind direction vectors	CR1000	WindDir_SD1_WVT

SFO_FOG1_SPECTRUM.2016

INPUT	***Units***	***Description***	***Source***	***SPECTRUM_LABEL_LOGGE***
Date	Date	number		
F2UR	ml	total ml/min from 1m2 uncoated raschel mesh @SFO, calibration coefficient 146	uncoated raschel	BUCKET19.9859
F3UF	ml	total ml/min from 1m2 uncoated Fog-HA-Tin mesh @SFO, calibration coefficient 118	uncoated German (Spacer)	BUCKET12.10619
F4NBDM	ml	total ml/min from 1m2 NBD coated metal mesh @SFO, calibration coefficient 132	coated metal	BUCKET11.10629
F5NBDR	ml	total ml/min from 1m2 NBD coated raschel mesh @SFO, calibration coefficient 138	coated raschel	BUCKET18.10626
F6NBDF	ml	total ml/min from 1m2 NBD coated Fog-HA-Tin mesh @SFO, calibration coefficient 134	coated German (Spacer)	BUCKET20.10618