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Contact Address

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1. General Information

Site name (three letter code)	Suwa Lake Site (SWL)
Researcher #1 (e-mail)	Hiroki Iwata (hiwata@shinshu-u.ac.jp)
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Researcher #2 (e-mail)	
Contact Address#2	
Researcher #3 (e-mail)	
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Other Researchers (e-mail)	
Observation period	April 2015 to present
Measurement frequency	Continuous
Infrastructure	Mast, electrical power (AC)
Research fund #1	
Research fund #2	
Research fund #3	
URL	
Other information	

2. Site description

Site name (three letter code)	Suwa Lake Site (SWL)
Country	Japan
Location	Suwa, Nagano
Latitude and Longitude (first decimal of second precision), Elevation (geographic coordinates, surveying method)	36° 2′ 47.62″ N, 138° 6′ 30.19″ E 759 m above sea level
Slope	0 degree
Terrain Type	Flat
Area	1330 ha
Fetch	3500 to 4500 for the dominant wind direction
Climate (Köppen Climate Classification)	Subarctic humid climate
Mean annual air temperature	
Mean annual precipitation	
Vegetation Type	Lake
Dominant Species (Overstory)	
Dominant Species (Understory)	
Canopy height	
Age	
LAI	
Soil type	

3. Measurement Item

3-1. Meteorology

Observation items	Levels / Depth	Instrument
Global solar radiation (incoming)	3 m	CNR4 (Kipp & Zonen)
Global solar radiation (outgoing)	3 m	CNR4 (Kipp & Zonen)
Long-wave radiation (incoming)	3 m	CNR4 (Kipp & Zonen)
Long-wave radiation (outgoing)	3 m	CNR4 (Kipp & Zonen)
Net radiation		
PPFD (incoming)		
PPFD (outgoing)		
Direct/diffuse radiation		
Direct/diffuse PPFD		
Air temperature	3 m	HMP60 (Vaisala)
Humidity	3 m	HMP60 (Vaisala)
Soil temperature	0.25, 0.5, 1 m	107 (Campbel)
Soil heat flux		
Soil water content		
Wind speed		
Wind direction		
Barometric pressure	1 m	CS106 (Campbell)
Precipitation		
CO_2 concentration		

3-2. Eddy covariance method (CO_2)

System	Open-path system (sensible heat, latent heat, CO2 flux)
Wind speed	Three-dimensional sonic anemothermometer (CSAT3, Campbell)
Air temperature	Three-dimensional sonic anemothermometer (CSAT3, Campbell)
Water vapor	Open-path CO2/H2O analyzer (EC150, Campbell)
CO_2	Open-path CO2/H2O analyzer (EC150, Campbell)
Measurement height	Approx. 3 m depending on the water level
Sampling frequency	10 Hz
Averaging time	30 min
Data logger	CR3000 (Campbell)
Data storage	CF card
Original data (Raw data or statistics)	Statistics

3-3. Fluxes of non-CO_2 gases

Gas	
Method	
Measurement height	
Data logger	
Data storage	

3-4. Soil respiration

Measurement method	
Reference(s) for method (if have)	
Measuring system	
IRGA	
Flow control	
Chamber type	
Chamber size	
Number of chambers	
Measuring intervals	
Is the ground covered by snow in winter? (if yes, how about the measurement in winter?	
Original data (Raw data or statistics)	
Temperature and air pressure correction (if done, which temperature was used?)	

3-5. Other

Photosynthesis	
Ecological Investigation	

4. Note (e. g. calibration information, Publications)

Calibration information Publications