

Overview of stations and variables Lake Erken Monitoring Program

Station name	Variables	Sampling frequency	Coordinates WGS 84
Malma islet. Weather station (since 1988)	Air temperature, humidity, wind speed, wind vector, wind direction, rain (every 10 min). Light period: global radiation, PAR, Day length, Water level, Delayed Fluorescence Spectroscopy: Biomass; Composition, PI curve Water temperature: 3 depth (1, 3, 15 m)	Automated measurements, hourly or daily	59,83909; 18,629558
Float Station, lake (since 1988)	Wind (High frequency, 10 min, hourly) Water temperature (30 min, every 0.5 m till 15m depth)	Automated measurements during ice free period	59,84297; 18,635433
Profiler Station, lake (since 2014)	<u>YSI EXO2 sonde</u> (since 2014): GPS, Temperature, conductivity, pH, ORP, TDS, salinity, barometric pressure, depth, dissolved oxygen, turbidity, fDOM, total algae (Chl & BGA-PC)	Automated measurements during ice free period, 3 profiles per day	59,84530; 18,624217
Buoy (0-20m), lake	<u>Chemical variables</u> (since 1989): pH, Temp, conductivity, DO, Secchi depth, colour visual System, alkalinity, Abs, Turbidity, suspended solids, loss of ignition, dissolved N and P, particulate N and P, TOC, DOC, Si, Chla	Weekly during ice free period, biweekly-monthly during ice cover	59,84029; 18,625827
	<u>Biological variables</u> : Phytoplankton (since 1991); Zooplankton (since 2012), DNA (since 2010)	Weekly during ice free period, biweekly-monthly during ice cover	59,84029; 18,625827
Norr Malma, inlet 1	<u>Manual sampling</u> : Since 2000: pH, Temp, conductivity, DO, colour visual system, Alkalinity, Abs, Turbidity, suspended solids, loss on ignition, dissolved N and P, particulate N and P, since 2012: TOC, Si since 2016: DOC, DIC, anions, cations, DNA	Monthly	59,83575; 18,647467
Stampån, inlet 2	<u>Manual sampling</u> : Since 2000: pH, Temp, conductivity, DO, colour visual system, Alkalinity, Abs, Turbidity, suspended solids, loss on ignition, dissolved N and P, particulate N and P, since 2012: TOC, Si	Monthly	59,85880; 18,606417

	since 2016: DOC, DIC, anions, cations, DNA		
Kristineholm, main inlet 3, main inflow	<u>Automatic monitoring:</u> Discharge, water temperature, CDOM (fluorometer) & turbidity (transmissometer, 660 nm)	Hourly	59,85450; 18,473417
	<u>Manual sampling:</u> Since 2000: pH, Temp, conductivity, DO, colour visual system, Alkalinity, Abs, Turbidity, suspended solids, loss on ignition, dissolved N and P, particulate N and P, since 2012: TOC, Si since 2016: DOC, DIC, anions, cations, DNA	Biweekly	
Slumsviken, inlet 4	<u>Manual sampling:</u> Since 2000: pH, Temp, conductivity, DO, colour visual system, Alkalinity, Abs, Turbidity, suspended solids, loss on ignition, dissolved N and P, particulate N and P, since 2012: TOC, Si since 2016: DOC, DIC, anions, cations, DNA	Monthly	59,84367; 18,472917
Fyringen, inlet 5	<u>Manual sampling:</u> Since 2000: pH, Temp, conductivity, DO, colour visual system, Alkalinity, Abs, Turbidity, suspended solids, loss on ignition, dissolved N and P, particulate N and P, since 2012: TOC, Si since 2016: DOC, DIC, anions, cations, DNA	Monthly	59,82682; 18,507467
Erken outflow, Stensta	<u>Automatic monitoring:</u> Discharge, conductivity, temperature		59,85061; 18,70307
Utloppet, outlet 6	<u>Manual sampling:</u> Since 2000: pH, Temp, conductivity, DO, colour visual system, Alkalinity, Abs, Turbidity, suspended solids, loss on ignition, dissolved N and P, particulate N and P,	Monthly	59,85520; 18,675300

	<p>since 2012: TOC, Si</p> <p>since 2016: DOC, DIC, anions, cations, DNA</p>		
Norr Järsö outlet 7	<p><u>Manual sampling:</u></p> <p>Since 2000: pH, Temp, conductivity, DO, colour visual system, Alkalinity, Abs, Turbidity, suspended solids, loss on ignition, dissolved N and P, particulate N and P,</p> <p>since 2012: TOC, Si</p> <p>since 2016: DOC, DIC, anions, cations, DNA</p>	Monthly	59,85450; 18,654550
Weather Station Svanberga, SMHI, land-based	Automatic monitoring. Weather station (Air temperature, humidity, wind speed, wind vector, wind direction)	Every 10 min	59,83232; 18,654550