

# The Erken Laboratory



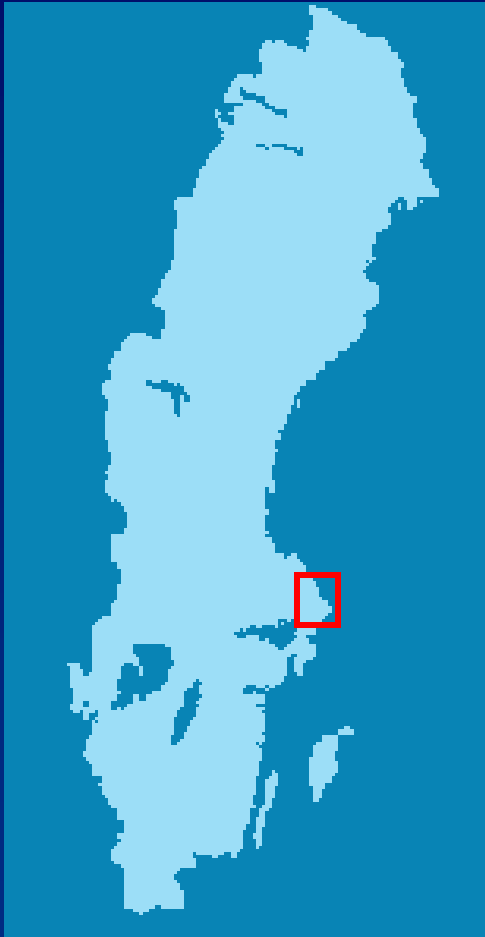
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# Lake Erken



Lake Erken, dimictic	
Catchment area (km <sup>2</sup> )	141
Lake area (km <sup>2</sup> )	24
Mean depth (m)	9
Max depth (m)	21
Residence time (ys)	7
Mean TP (μg/l)	27
Mean summer Chl <i>a</i> (μg/l)	4



# Monitoring programme

- Manual monitoring (winter monthly, otherwise weekly, 1974-79, 1993-now):
  - Temp., Oxygen, Secchi, pH, alk, cond, colour, diss. + part.+total nutrients, Chl *a*, phytoplankton counts





# Monitoring programme

- Automatic monitoring (Island, hourly, 1988-now):
  - Weather station: air temperature, global radiation, PAR, wind speed and direction,
  - Water temperature 1, 2.5 and 14 m
  - Delayed fluorescence
- Automatic monitoring (Float, 30 min, 1988-now):
  - Water temperature every 0.5 m
- YSI 6920 Sonde (last year): Temp., Cond., DO, Fluor., pH

# Monitoring programme

- Automatic monitoring (Erken inflow and Galten inflow, hourly):
  - Discharge, water temperature, CDOM (fluorometer) and turbidity (transmissometer, 660nm)





# Data

- <http://erken.dyndns.org/LoggerWebpage/AutomaticStations.htm>