



Water status of Plateliai lake, tendency of water status according to state monitoring data

Gustina Leiputė

State monitoring in Plateliai lake

Since 1993.

2010-2017 – intensive surveillance
monitoring (every year).

Central part of the lake, surface layer.

Status assessment since 2010

General status of the lake:

1. Ecological status

- Biological
 - Chlorophyll „a“
- Physico-chemical
 - Total nitrogen (N)
 - Total phosphorus (P)
- Hydromorfological
 - Changes in water level
 - Changes in shore line

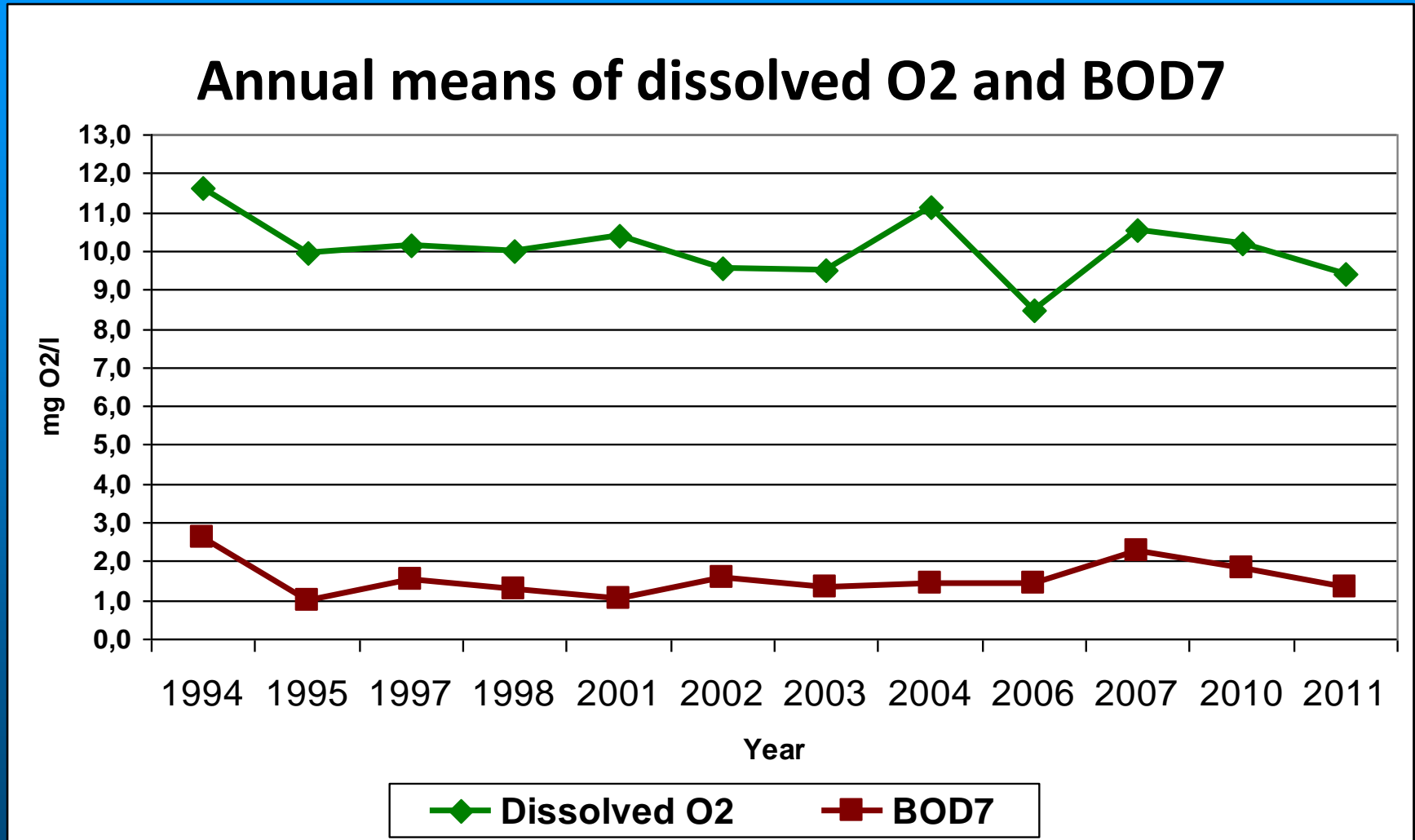
2. Chemical status

Frequency and season

Chlorophyll „a“ – 6 times per year.

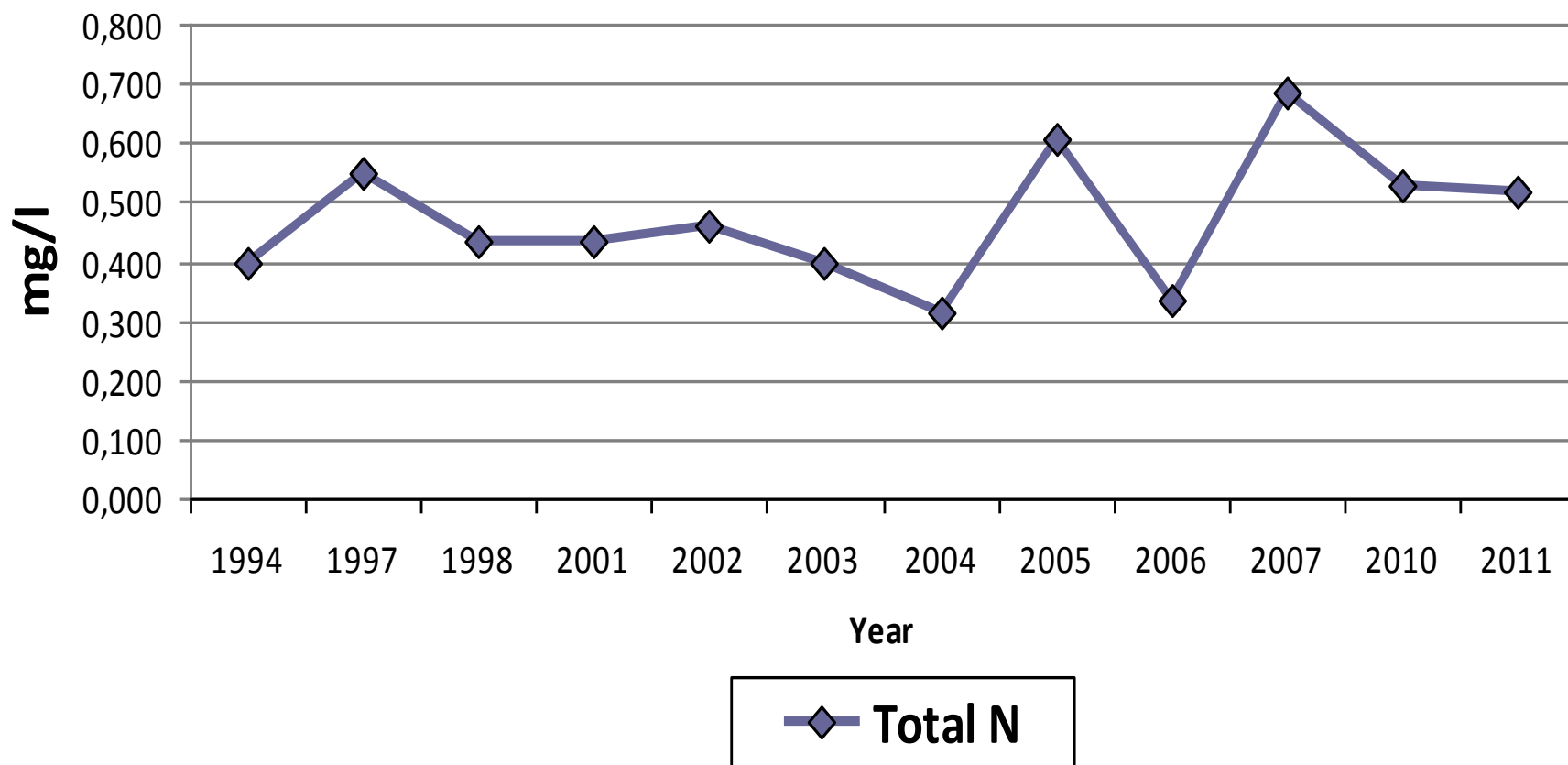
Physico-chemical – 7 times per year.

Dissolved oxygen and BOD₇ in Plateliai lake



Nitrogen in Plateliai lake

Annual mean of total N



Trends. Nitrate Directive

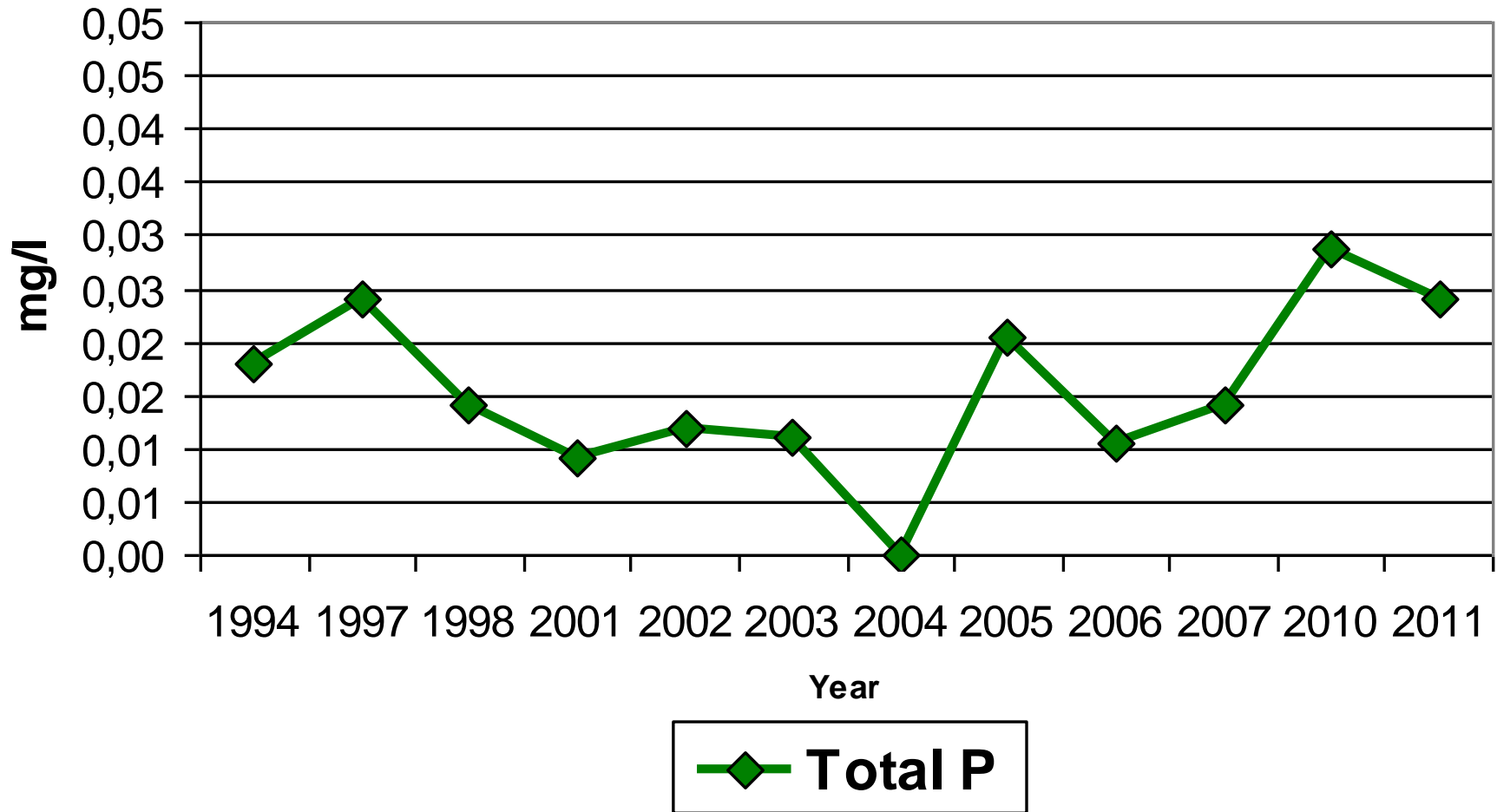
Trends in surface water NO₃ concentrations based on winter and annual average data, and max value.

Comparison of 2004-2007 with 2008-2011.

Result – no evidence of change in status.

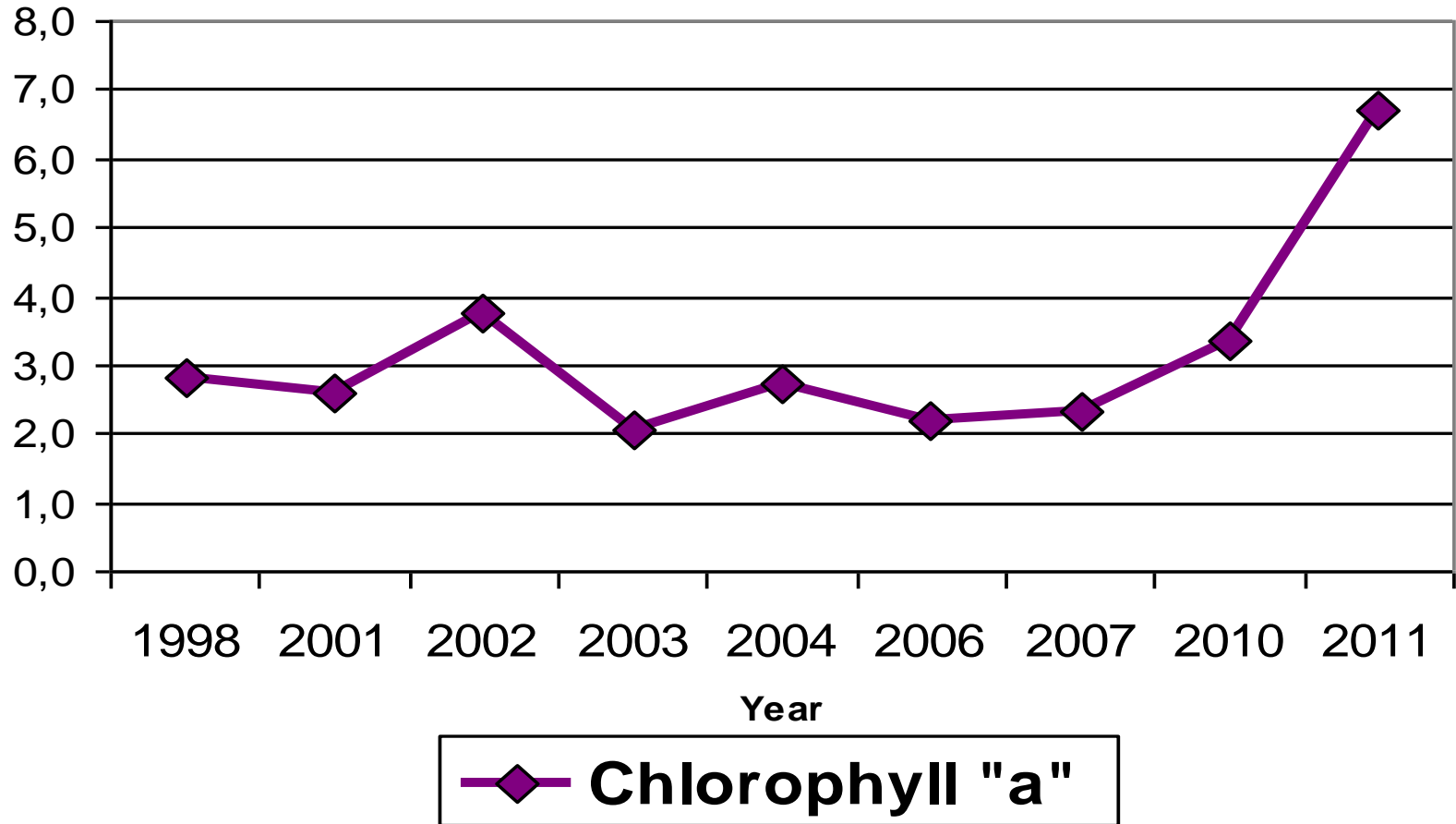
Phosphorus in Plateliai lake

Annual mean of total P



Chlorophyll "a" in Plateliai lake

Annual mean of chlorophyll "a"



Status of Plateliai lake

	Year	Ecological status	General status
Total N	2010	High	Good
Total P		High	
Chlorophyll „a“		High	
Total N	2011	High	Could not be classified
Total P		High	
Chlorophyll „a“		Moderate	

Thank you.