

**Załącznik 3.**

**do Raportu o jakości polsko-niemieckich wód granicznych w 2011 r.**

**3.2.1 Przebieg zmian stężeń wskaźników chemicznych i fizykochemicznych wspierających  
elementy biologiczne (dyrektywa 2000/60/WE załącznik V) w Zalewie Szczecińskim**

**Anlage 3.**

**zum Bericht über die Beschaffenheit der deutsch–polnischen Grenzgewässer 2011**

**3.2.1 Entwicklung chemischer und physikalisch-chemischer Komponenten in  
Unterstützung der biologischen Komponenten (RL 2000/60/EG) im Stettiner Haff**

*Stettiner Haff Zalew Szczeciński*  
 Wassertemperatur (April – November) *Temperatura wody (kwiecień – listopad)*

Abb. 3.2-2 / Rys. 3.2-2

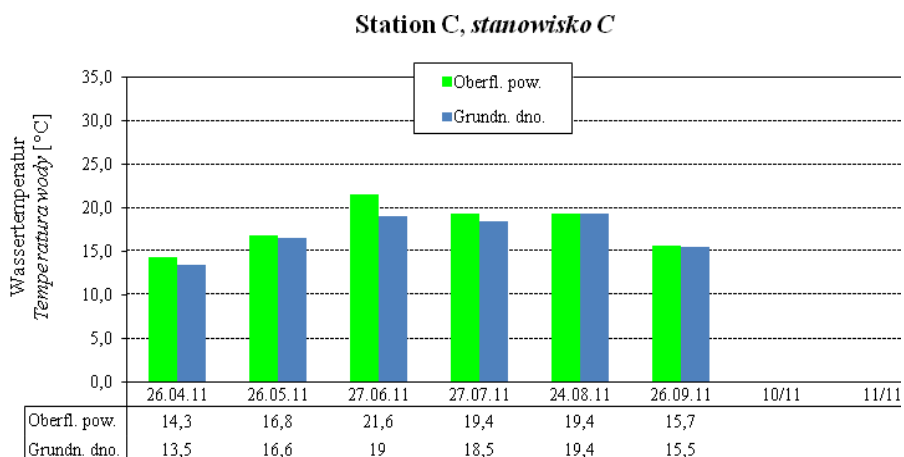


Abb. 3.2-3 / Rys. 3.2-3

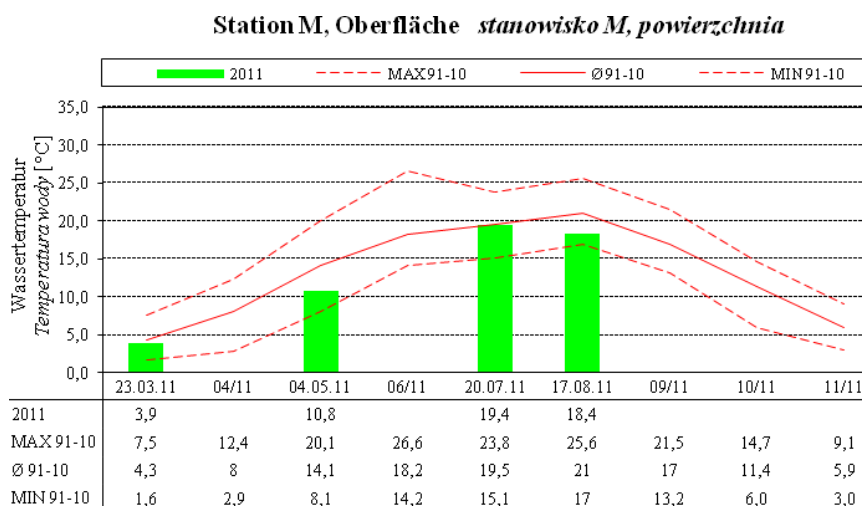


Abb. 3.2-4 / Rys. 3.2-4

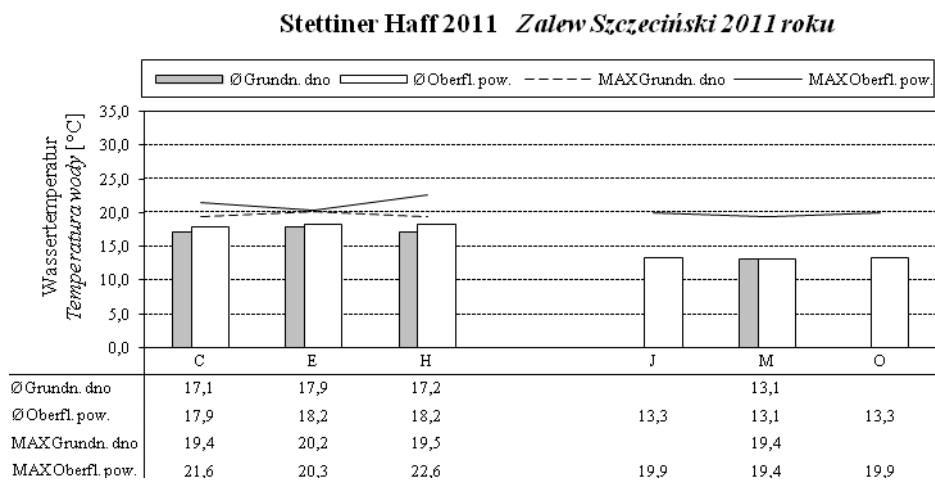
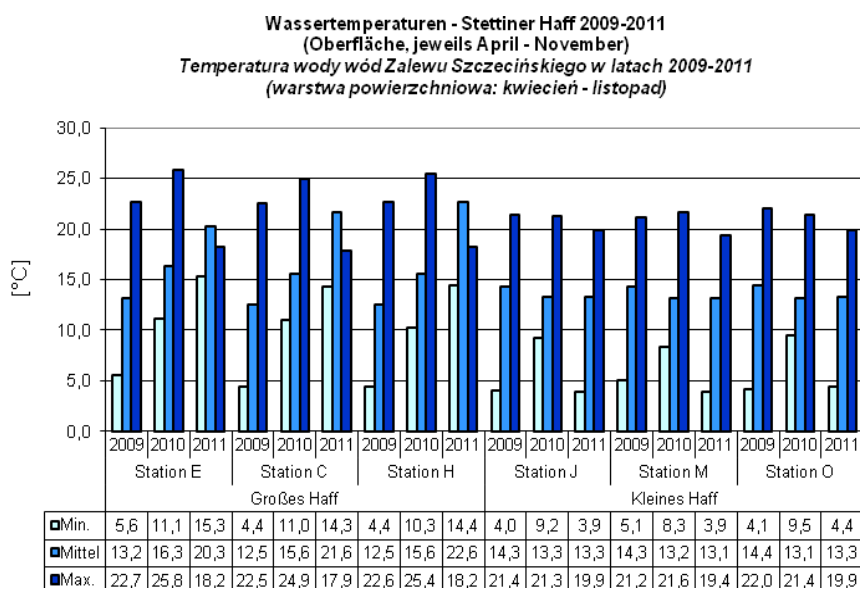


Abb. 3.2-5 / Rys. 3.2-5



**Stettiner Haff Zalew Szczeciński**  
**Salinität (April – November) Zasolenie (kwiecień – listopad)**

Abb. 3.2-6 / Rys. 3.2-6

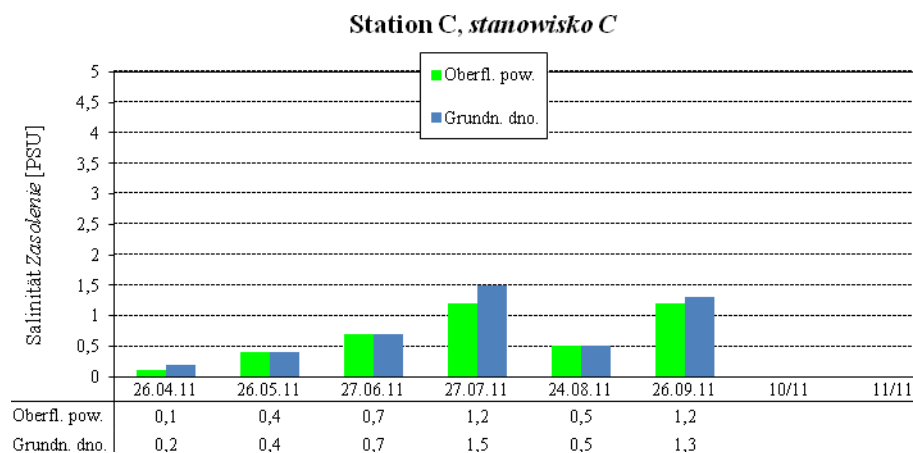


Abb. 3.2-7 / Rys. 3.2-7

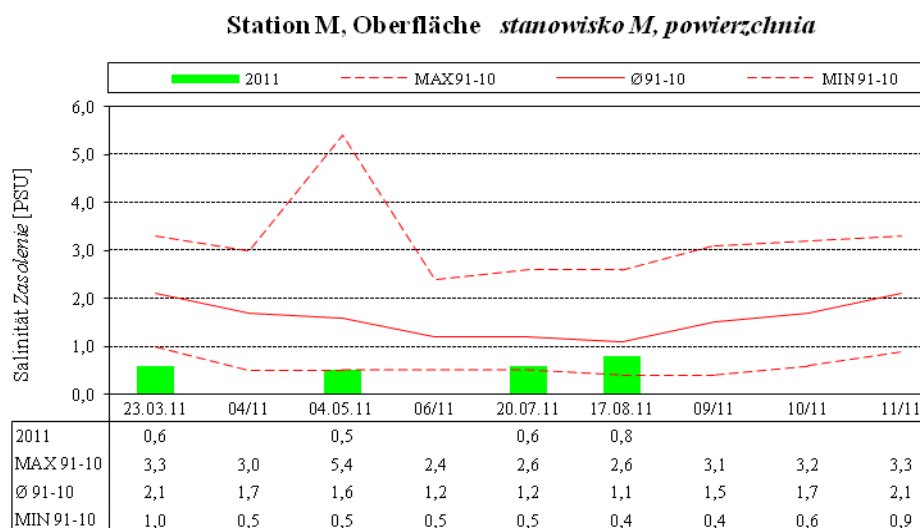


Abb. 3.2-8 / Rys. 3.2-8

Stettiner Haff 2011 Zalew Szczeciński 2011 roku

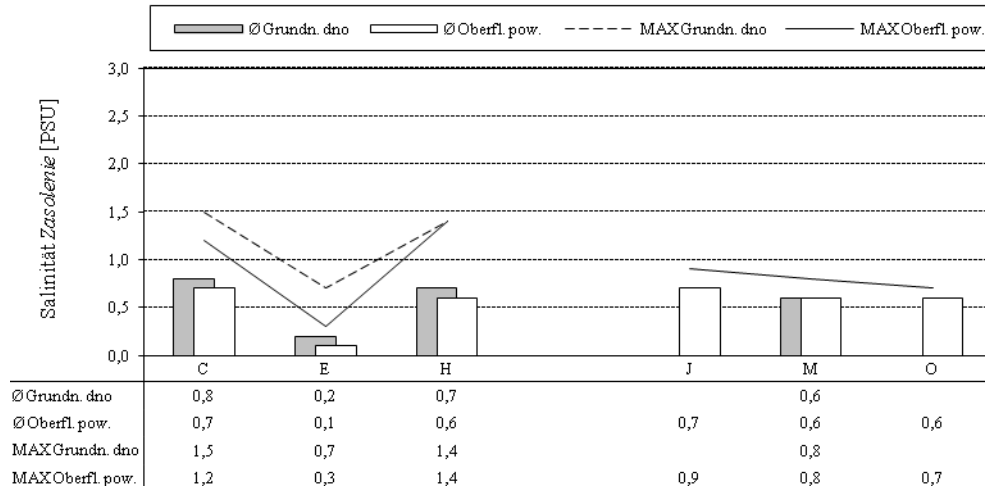
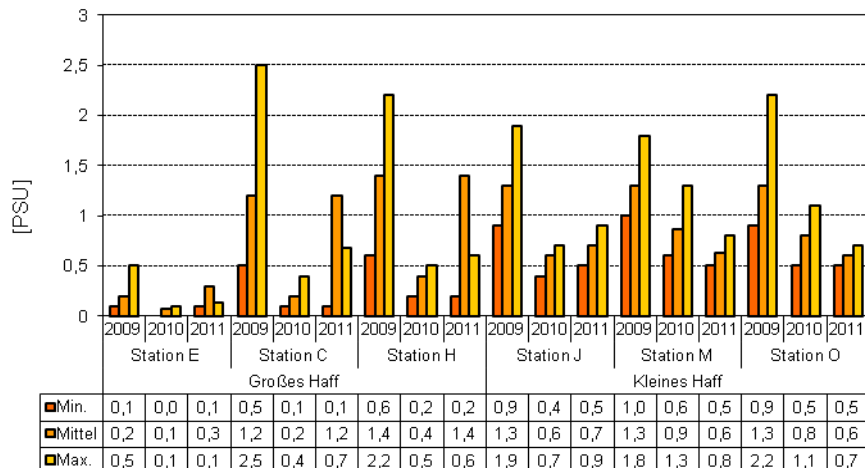


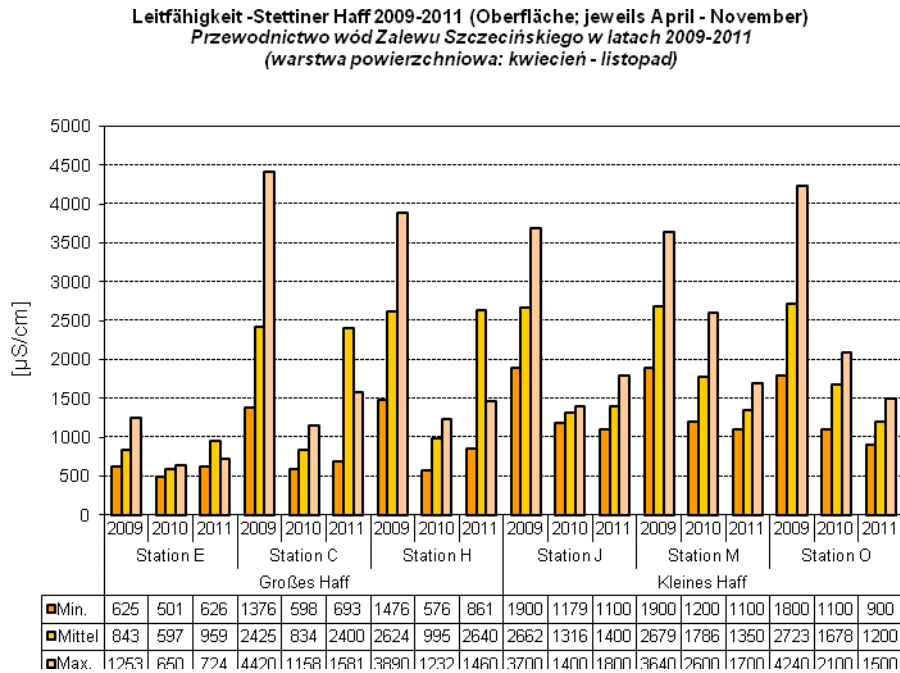
Abb. 3.2-9 / Rys. 3.2-9

Salzgehalt im Stettiner Haff, 2009-2011 (Oberfläche: jeweils April - November)  
Zasolenie wód Zalewu Szczecińskiego w latach 2009-2011  
(warstwa powierzchniowa: kwiecień - listopad)



**Stettiner Haff Zalew Szczeciński**  
**Leitfähigkeit (April – November) Przewodnictwo (kwiecień – listopad)**

Abb. 3.2-10 / Rys. 3.2-10



**Stettiner Haff Zalew Szczeciński**  
**pH-Wert (April – November) Odczyn (kwiecień – listopad)**

Abb. 3.2-11 / Rys. 3.2-11

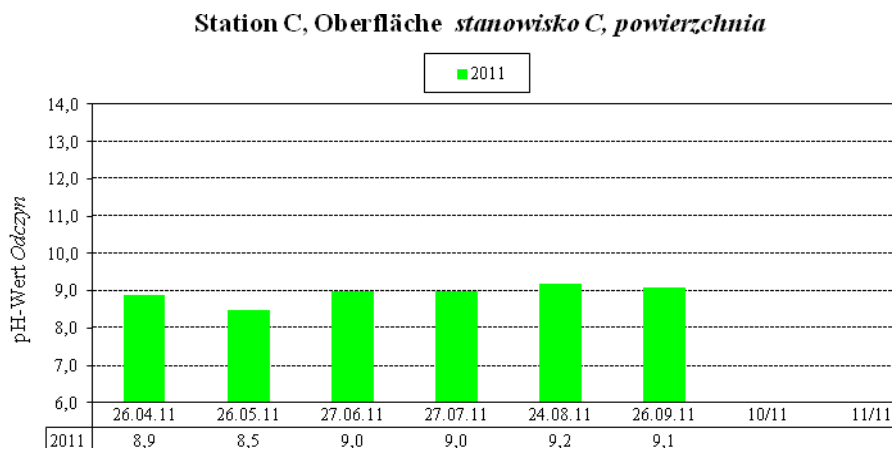


Abb. 3.2-12 / Rys. 3.2-12

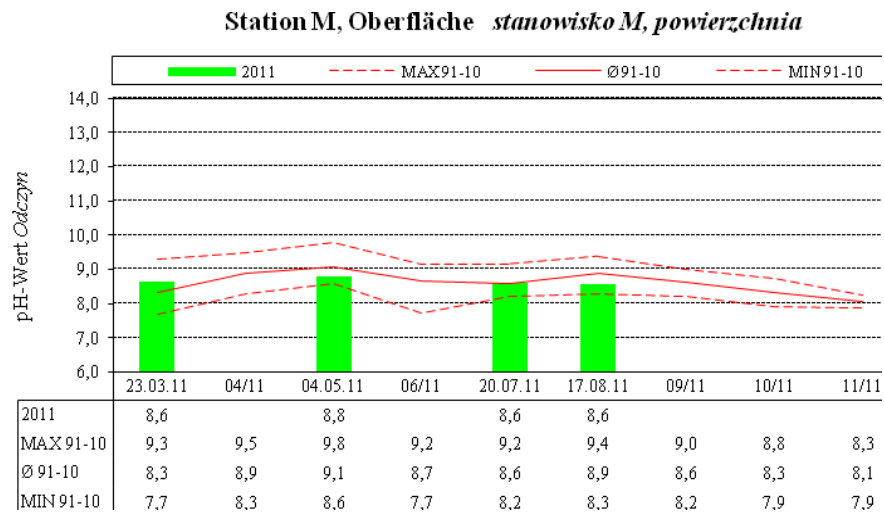


Abb. 3.2-13 / Rys. 3.2-13

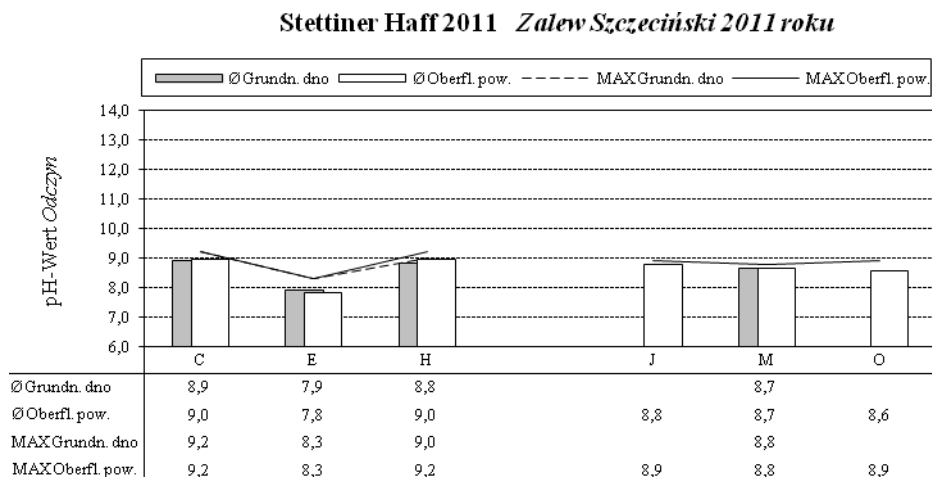
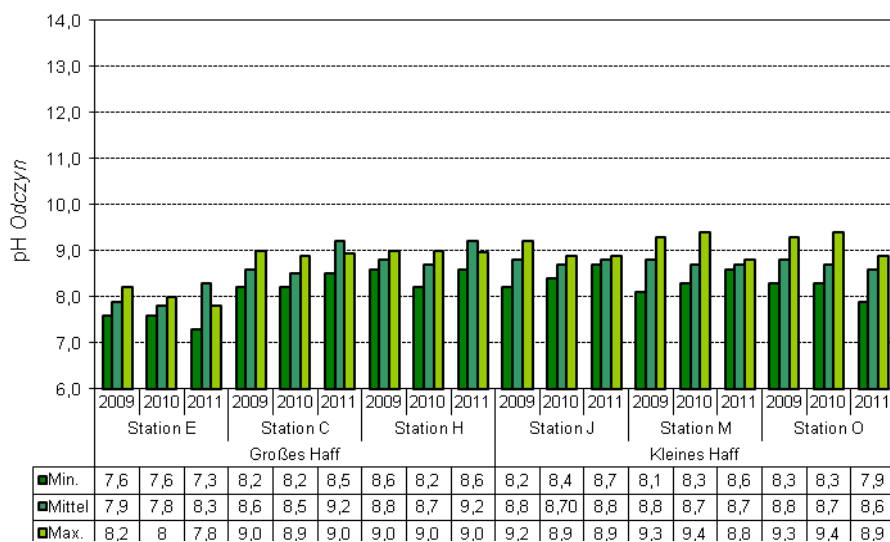


Abb. 3.2-14 / Rys. 3.2-14

pH-Wert - Stettiner Haff 2009-2011 (Oberfläche: jeweils April - November)  
 Odczyn wód Zalewu Szczecińskiego w latach 2009-2011 (warstwa powierzchniowa:  
 kwiecień - listopad)





Stettiner Haff Zalew Szczeciński  
Sauerstoffgehalt (April – November) *Tlen rozpuszczony (kwiecień – listopad)*

Abb. 3.2-15 / Rys. 3.2-15

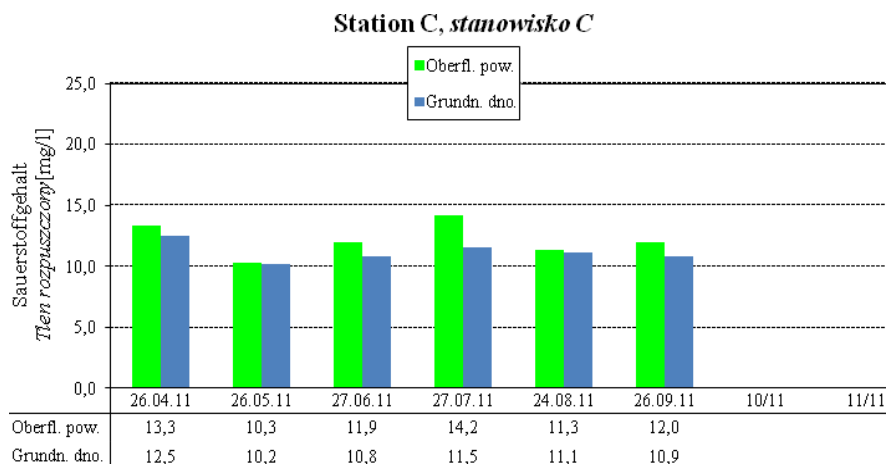


Abb. 3.2-16 / Rys. 3.2-16

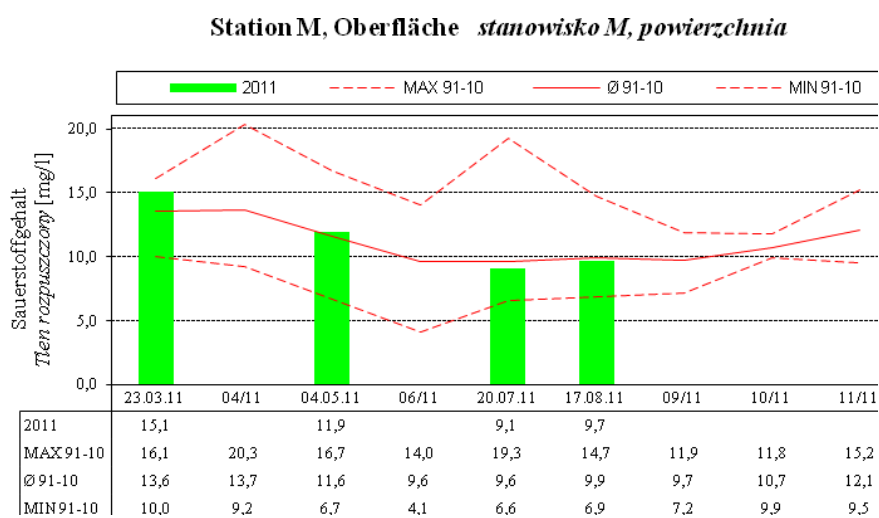


Abb. 3.2-17 / Rys. 3.2-17

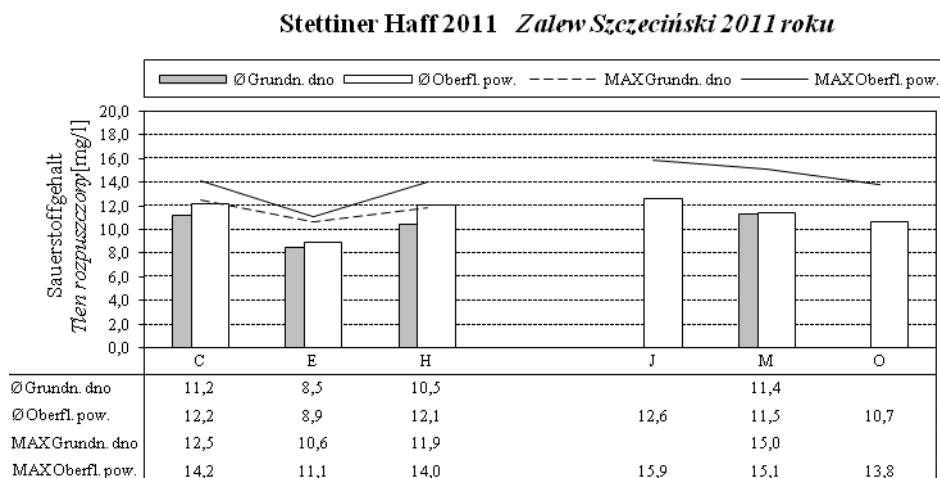
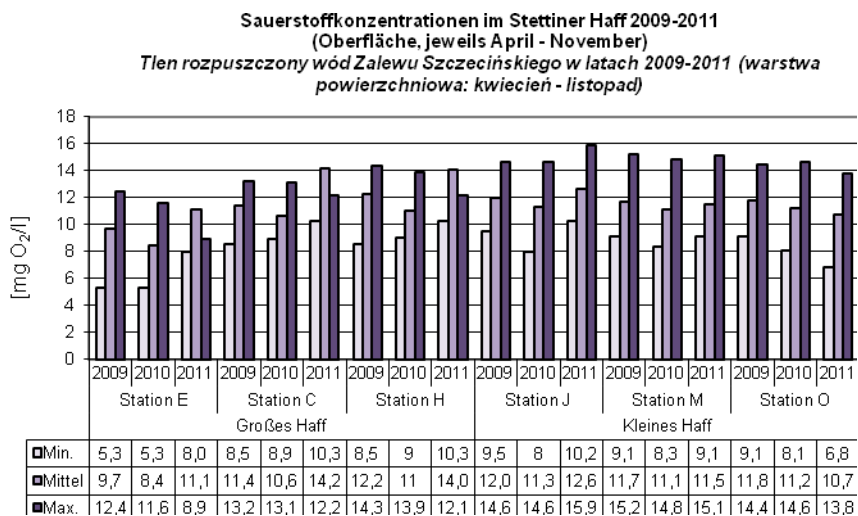


Abb. 3.2-18 / Rys. 3.2-18



Stettiner Haff Zalew Szczeciński  
 Sauerstoffsättigungsindex (April – November) *Nasylenie tlenem (kwiecień – listopad)*

Abb. 3.2-19 / Rys. 3.2-19

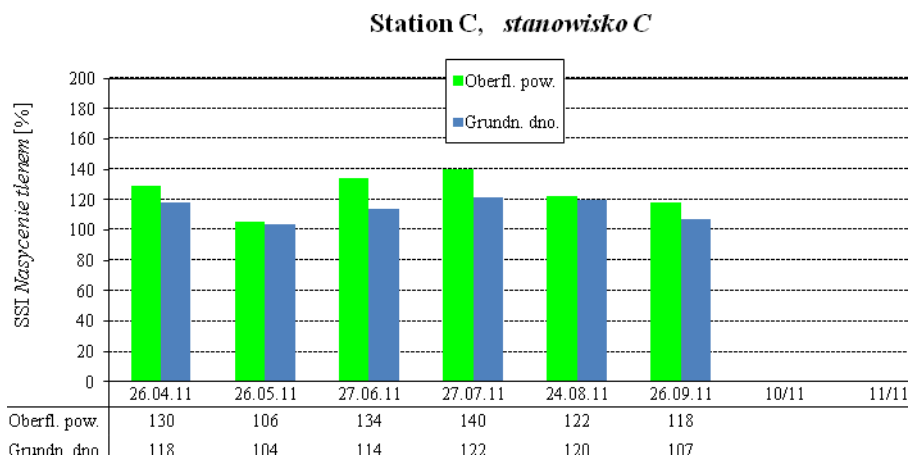


Abb. 3.2-20 / Rys. 3.2-20

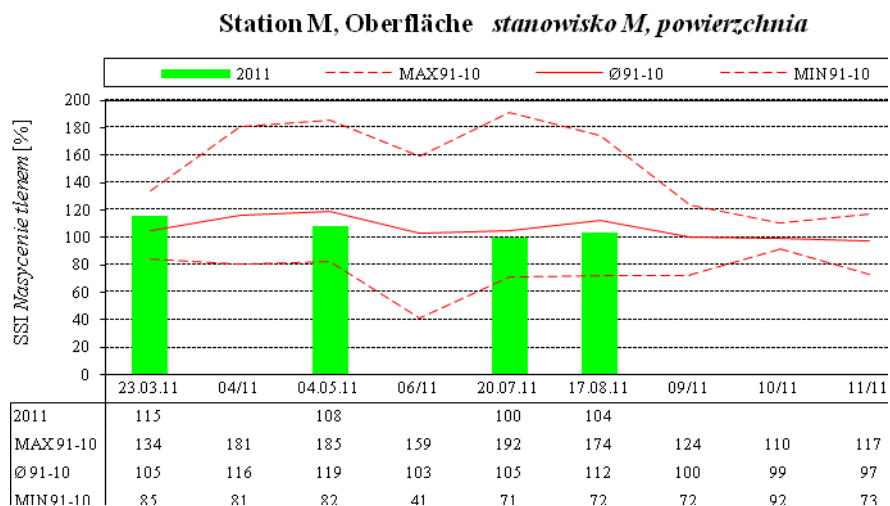


Abb. 3.2-21 / Rys. 3.2-21

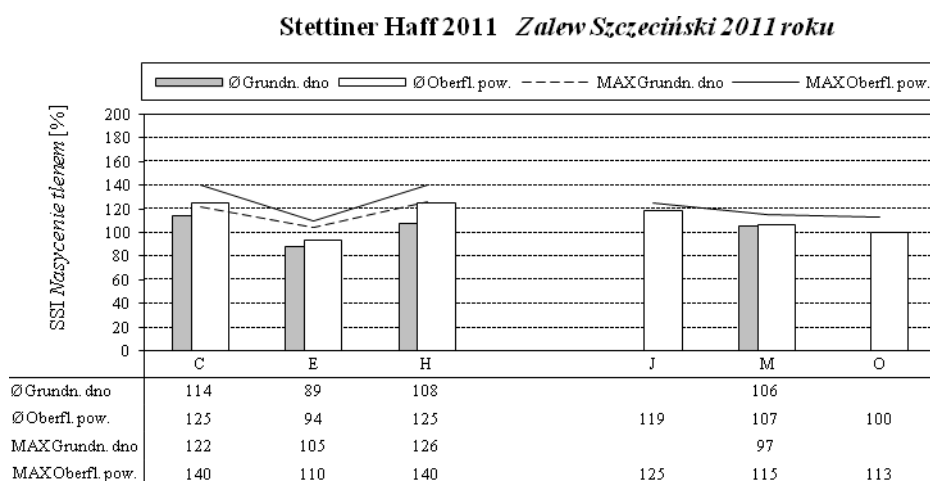
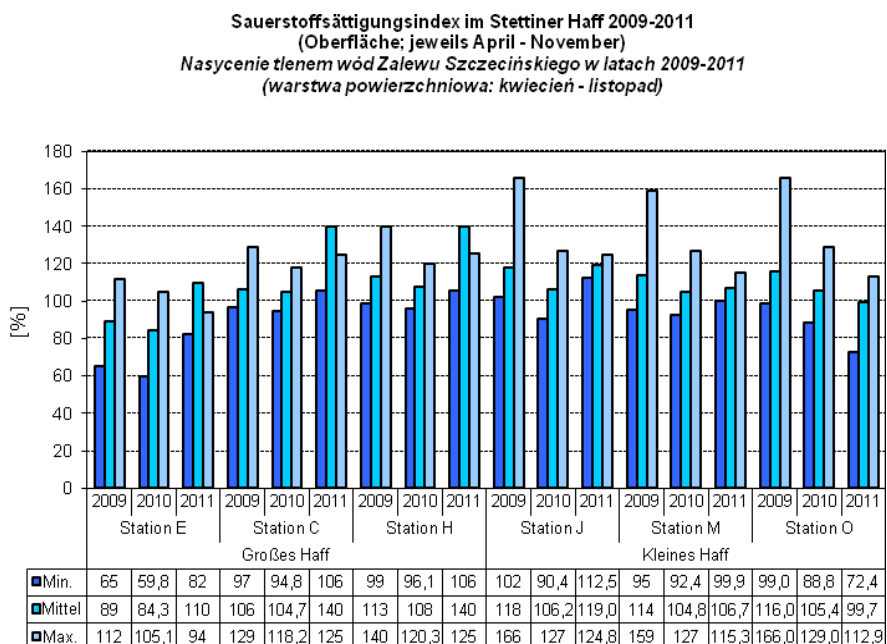


Abb. 3.2-22 / Rys. 3.2-22



Stettiner Haff Zalew Szczeciński  
Nitrat-N (April – November) Azot azotanowy (kwiecień – listopad)

Abb. 3.2-23 / Rys. 3.2-23

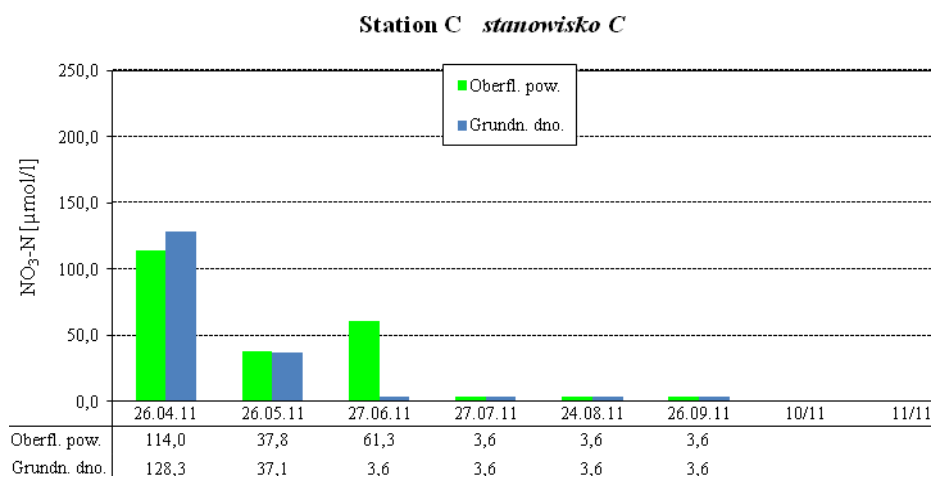


Abb. 3.2-24 / Rys. 3.2-24

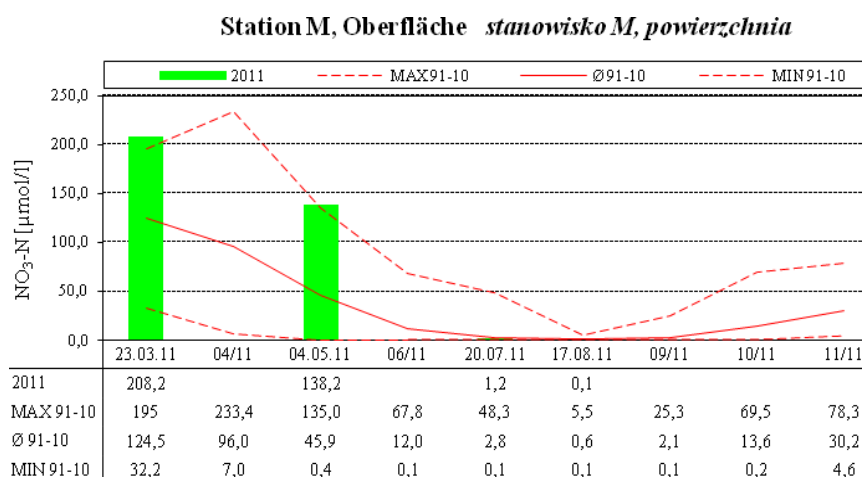


Abb. 3.2-25 / Rys. 3.2-25

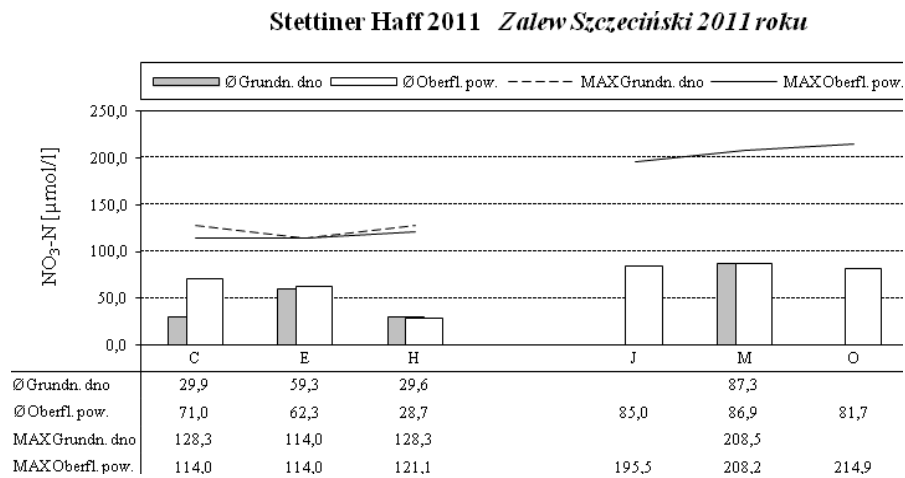


Abb. 3.2-26 / Rys. 3.2-26

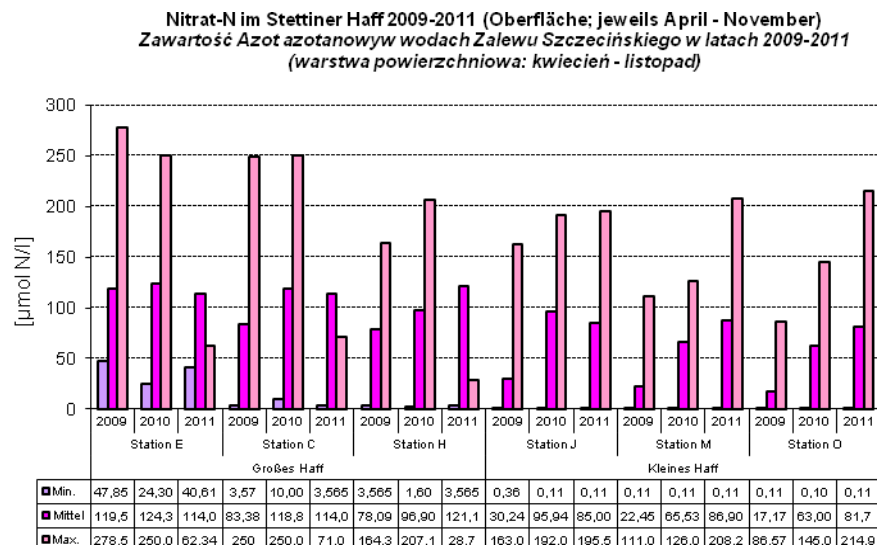
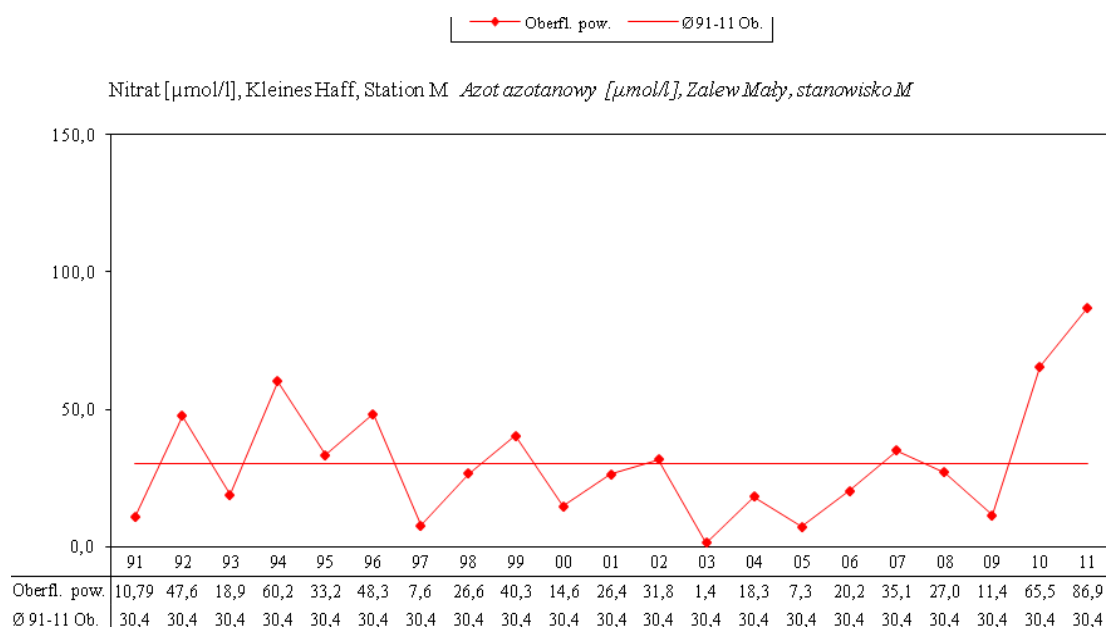




Abb. 3.2-29 / Rys. 3.2-29





Stettiner Haff Zalew Szczeciński  
 Ammonium-N (April – November) Azot amonowy (kwiecień – listopad)

Abb. 3.2-30 / Rys. 3.2-30

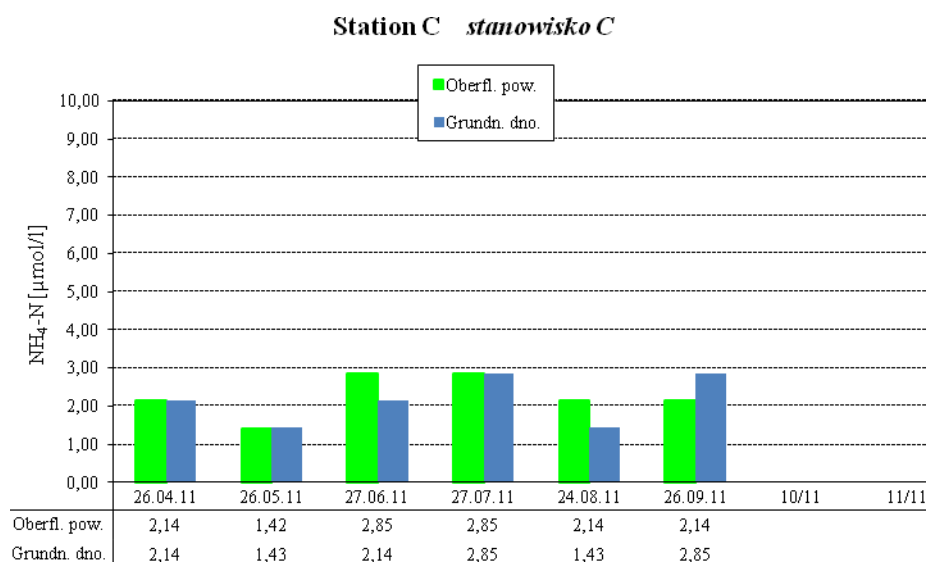


Abb. 3.2-31 / Rys. 3.2-31

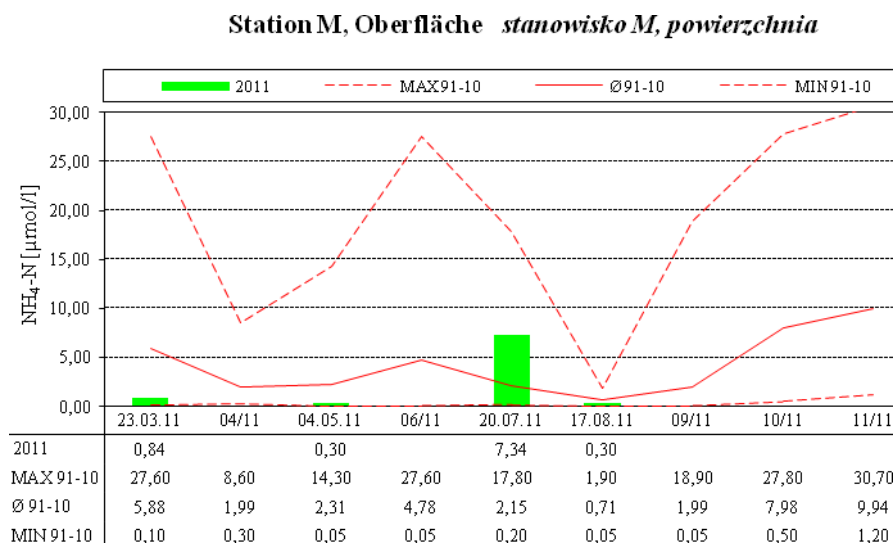


Abb. 3.2-32 / Rys. 3.2-32

Stettiner Haff 2011 Zalew Szczeciński 2011 roku

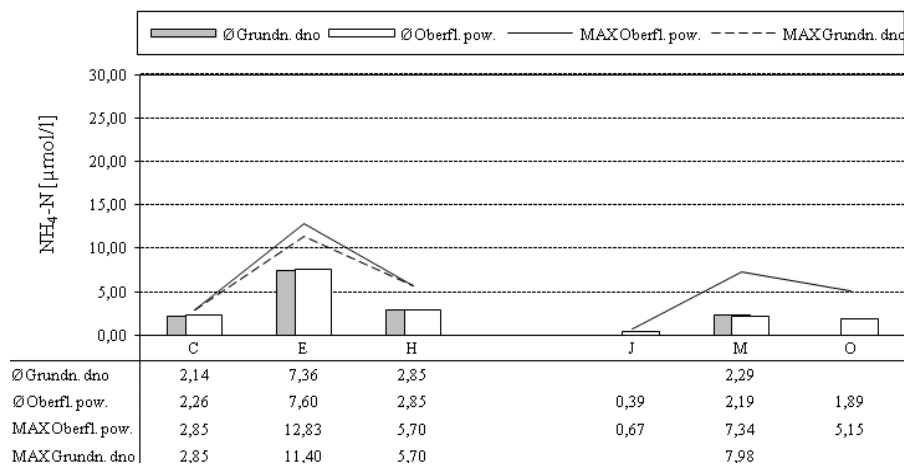
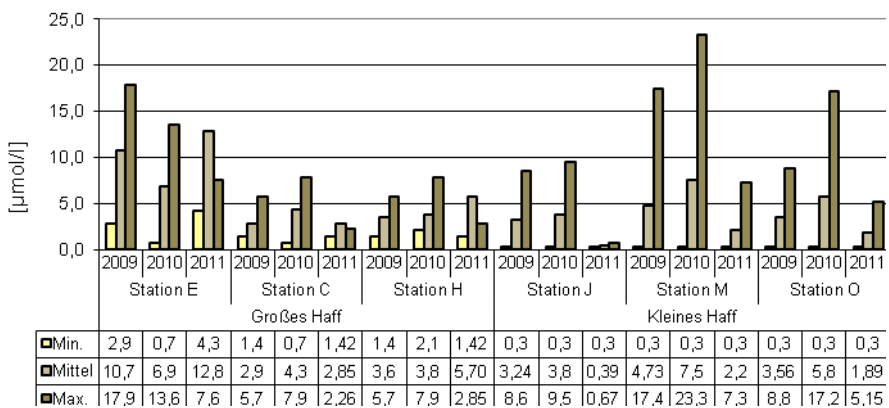


Abb. 3.2-33 / Rys. 3.2-33

Ammonium-N im Stettiner Haff 2009-2011 (Oberfläche, jeweils April - November)  
Zawartość azotu amonowego w wodach Zalewu Szczecińskiego w latach 2009-2011  
(warstwa powierzchniowa: kwiecień - listopad)



Stettiner Haff Zalew Szczeciński  
Nitrit-N (April – November) Azot azotynowy (kwiecień – listopad)

Abb. 3.2-34 / Rys. 3.2-34

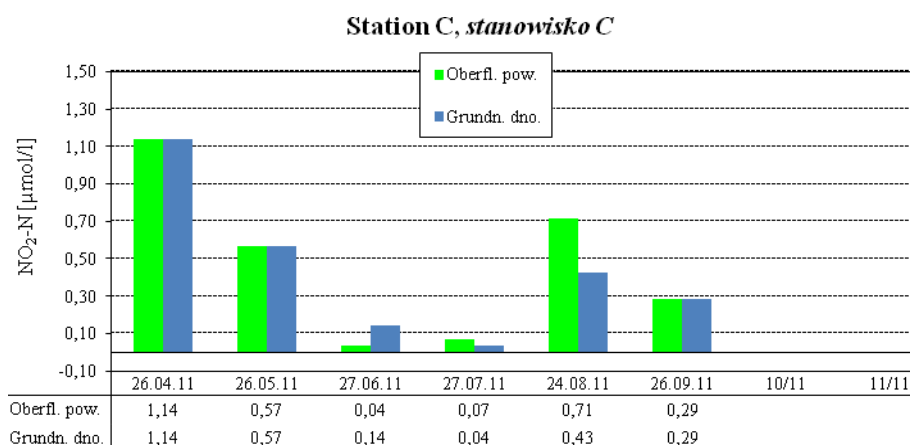


Abb. 3.2-35 / Rys. 3.2-35

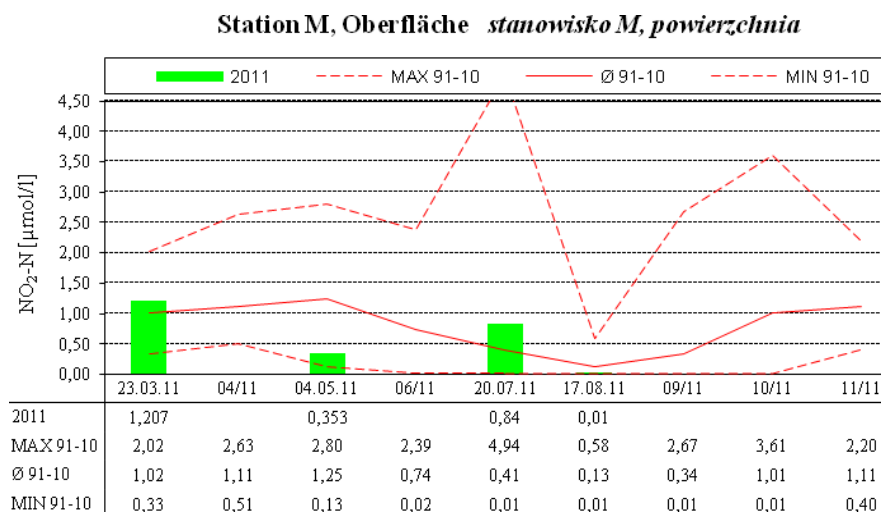
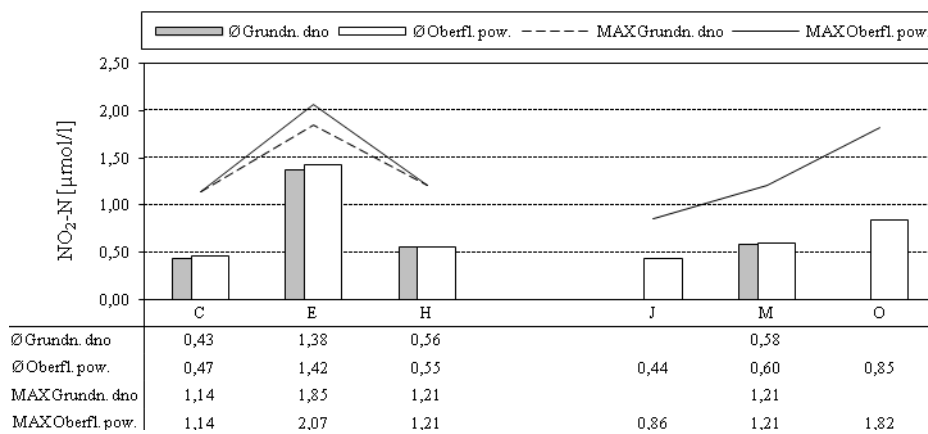


Abb. 3.2-36 / Rys. 3.2-36

Stettiner Haff 2011 Zalew Szczeciński 2011 roku



Stettiner Haff Zalew Szczeciński  
Gesamtstickstoff (April – November) Azot ogólny (kwiecień – listopad)

Abb. 3.2-37 / Rys. 3.2-37

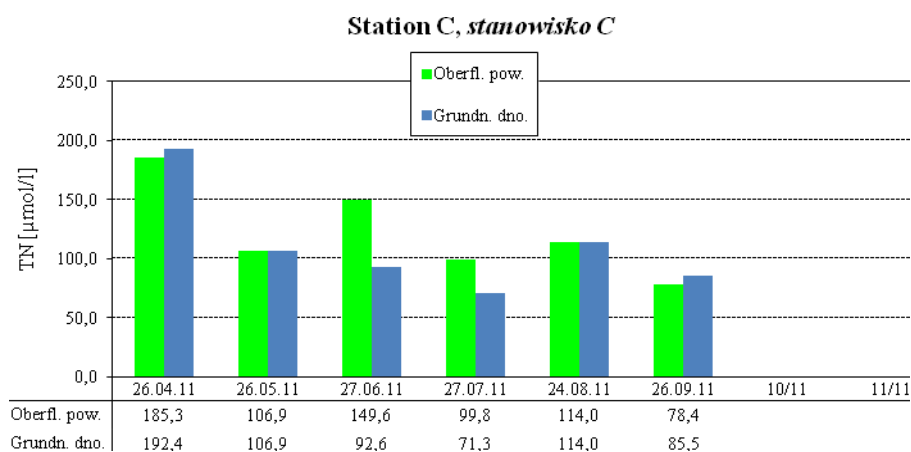


Abb. 3.2-38 / Rys. 3.2-38

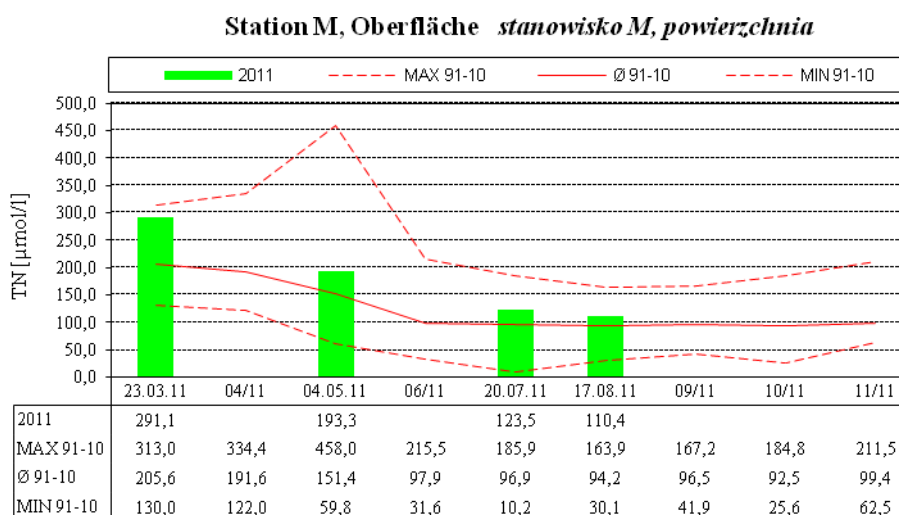


Abb. 3.2-39 / Rys. 3.2-39

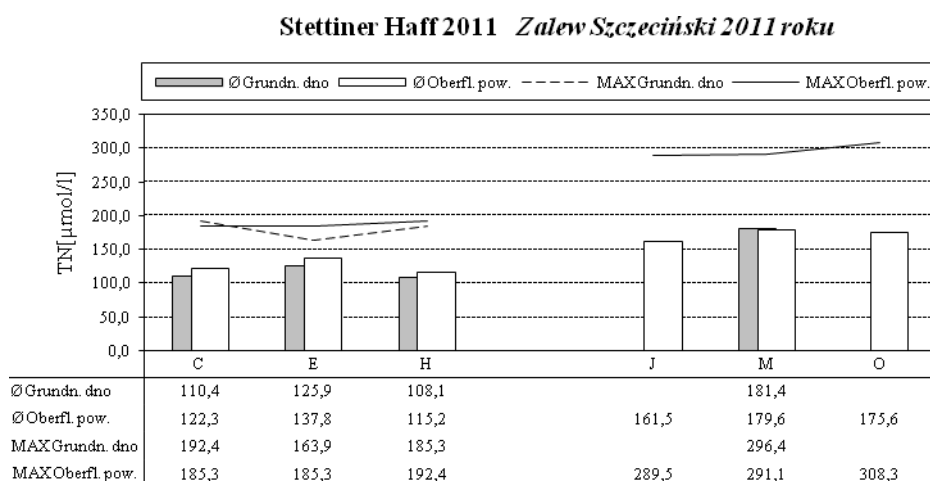
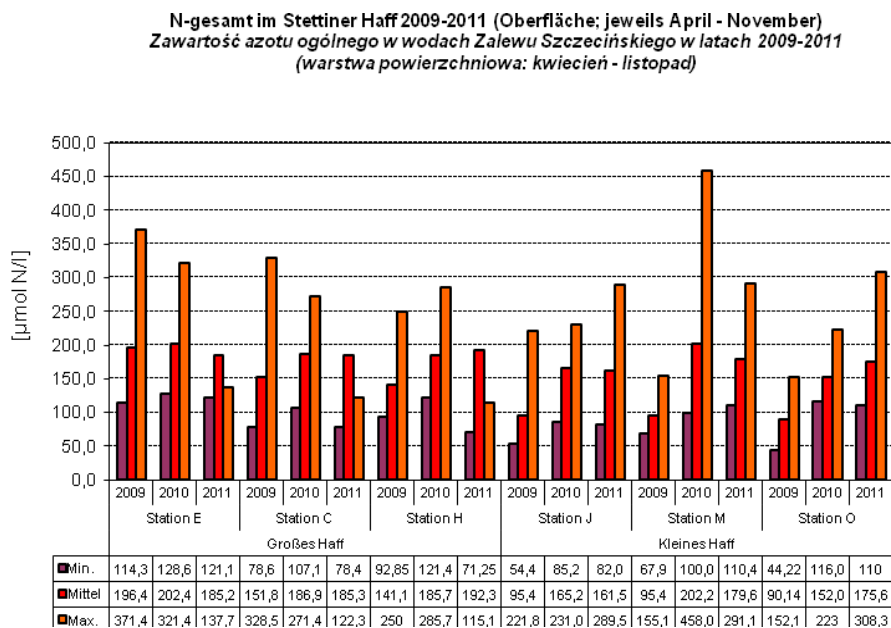


Abb. 3.2-40 / Rys. 3.2-40



Stettiner Haff Zalew Szczeciński  
Ortho-Phosphat (April – November) *Ortofosforany (kwiecień – listopad)*

Abb. 3.2-41 / Rys. 3.2-41

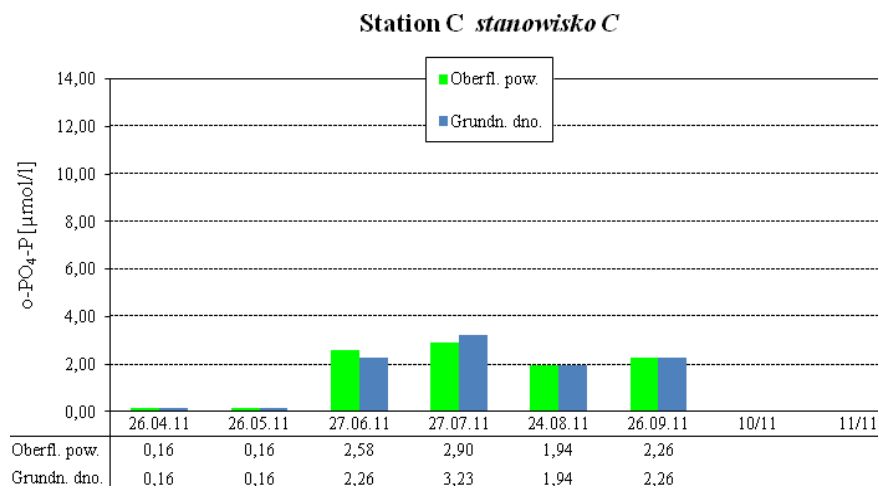


Abb. 3.2-42 / Rys. 3.2-42

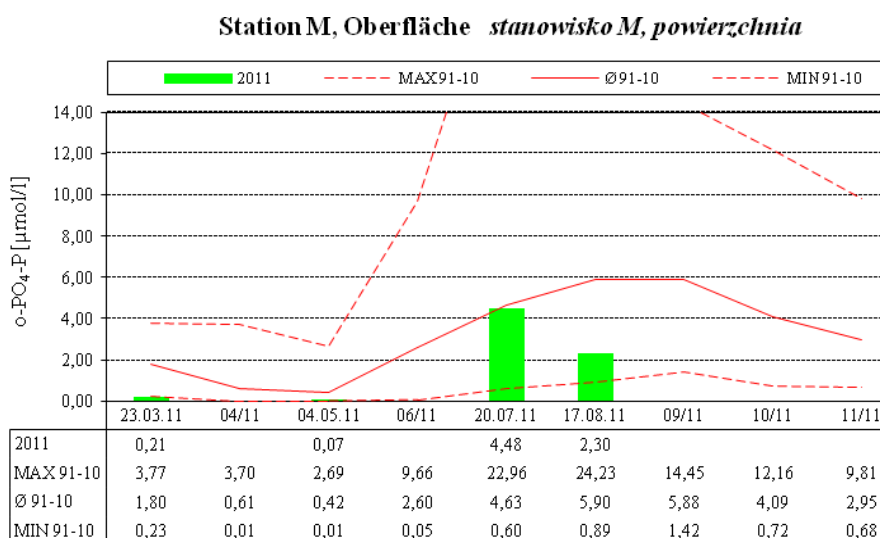


Abb. 3.2-43 / Rys. 3.2-43

Stettiner Haff 2011 Zalew Szczeciński 2011 roku

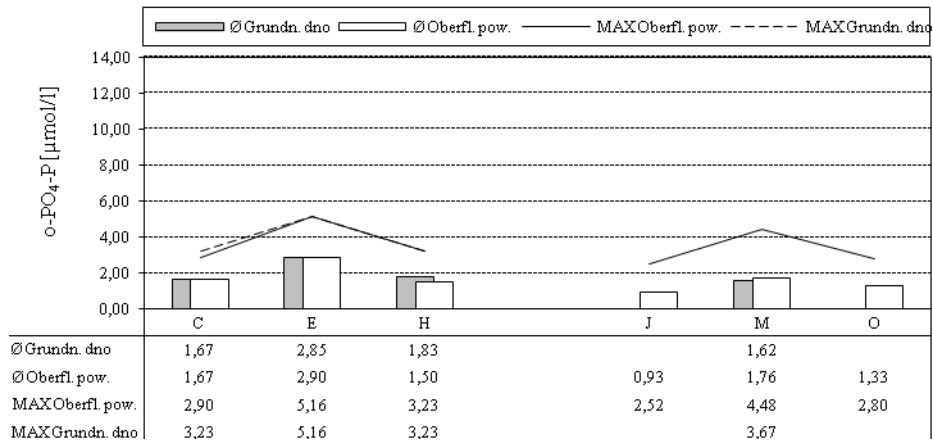
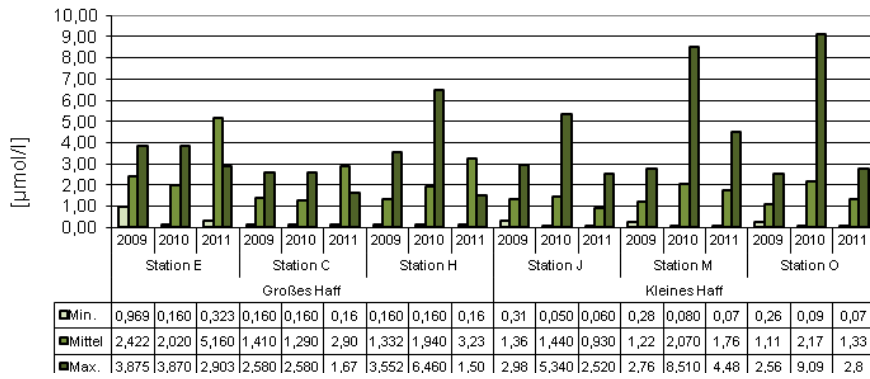


Abb. 3.2-44 / Rys. 3.2-44

Orthophosphat-P im Stettiner Haff 2009-2011 (Oberfläche, jeweils April - November)  
Zawartość ortofosforany w wodach Zalewu Szczecińskiego w latach 2009-2011  
(warstwa powierzchniowa: kwiecień - listopad)









Stettiner Haff Zalew Szczeciński  
 Gesamtphosphor (April – November) Fosfor ogólny (kwiecień – listopad)

Abb. 3.2-48 / Rys. 3.2-48

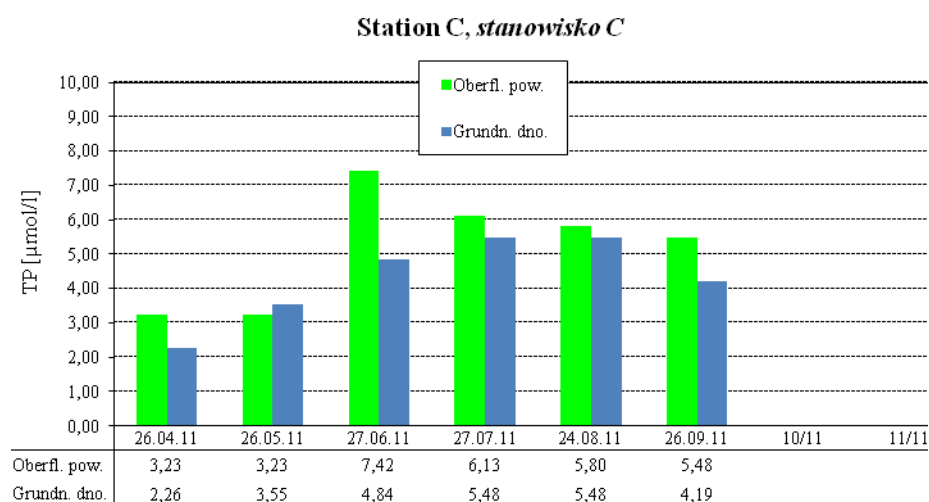


Abb. 3.2-49 / Rys. 3.2-49

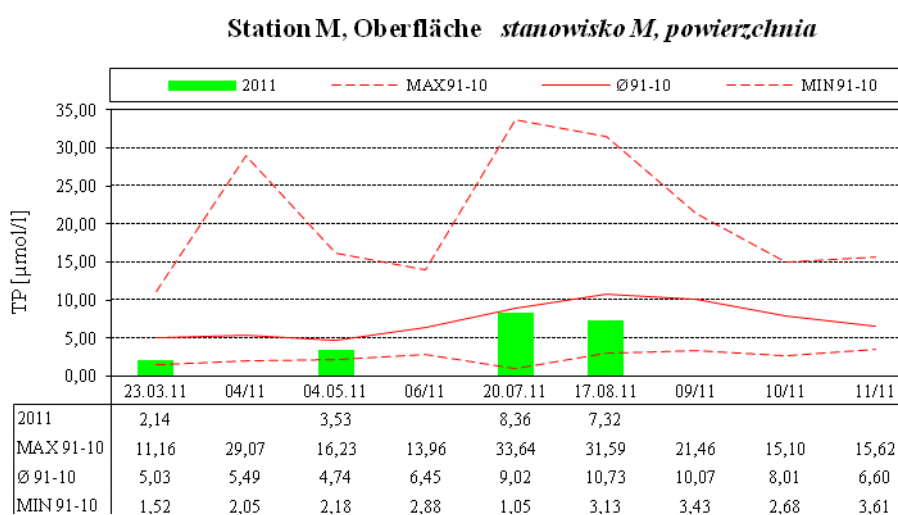


Abb. 3.2-50 / Rys. 3.2-50

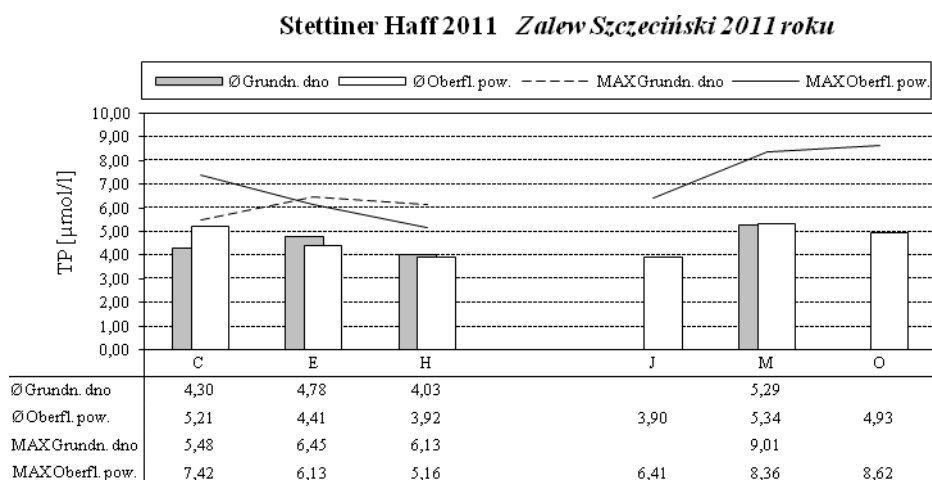
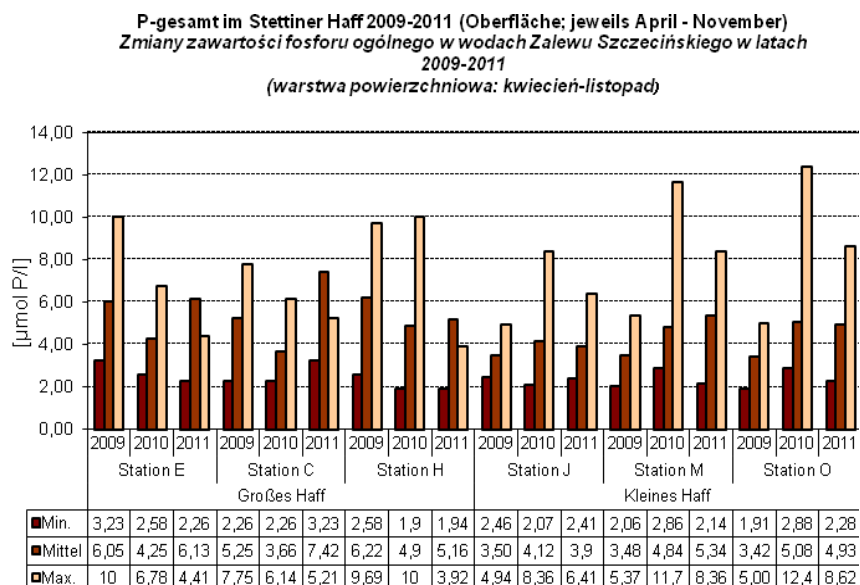


Abb. 3.2-51 / Rys. 3.2-51



Stettiner Haff Zalew Szczeciński  
Silizium-Silikat (April – November) *Krzemionka (kwiecień – listopad)*

Abb. 3.2-52 / Rys. 3.2-52

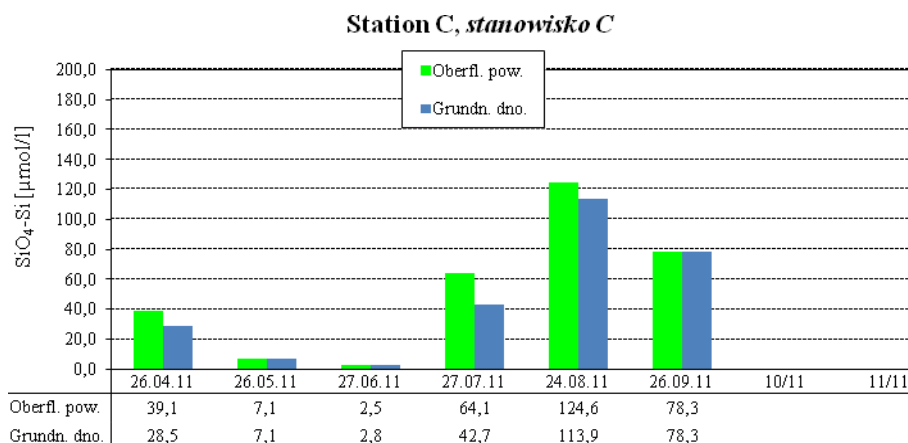


Abb. 3.2-53 / Rys. 3.2-53

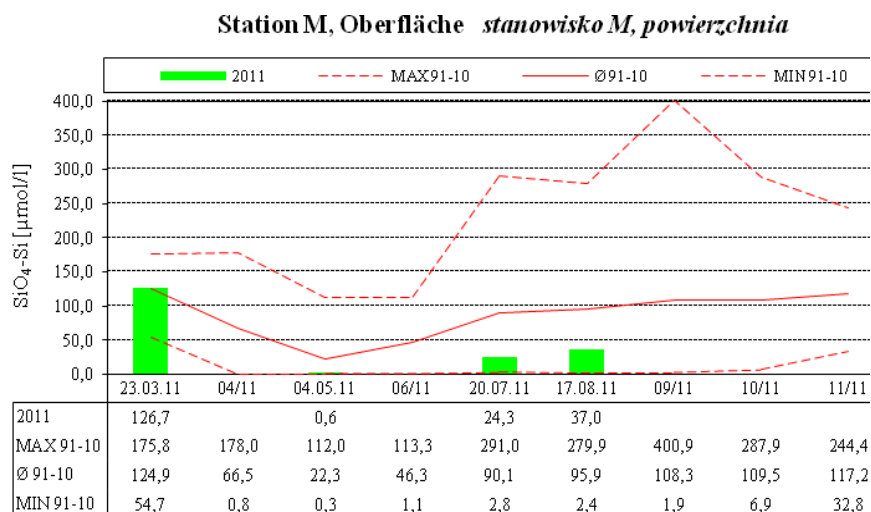


Abb. 3.2-54 / Rys. 3.2-54

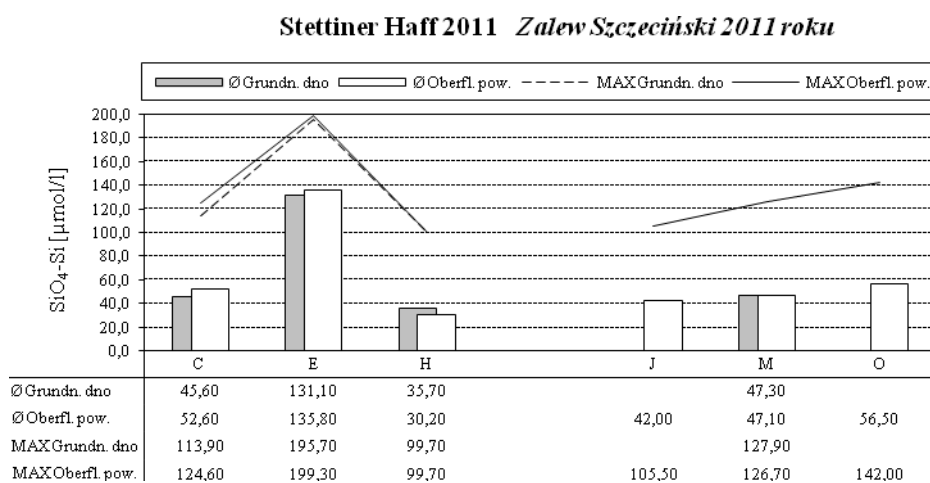
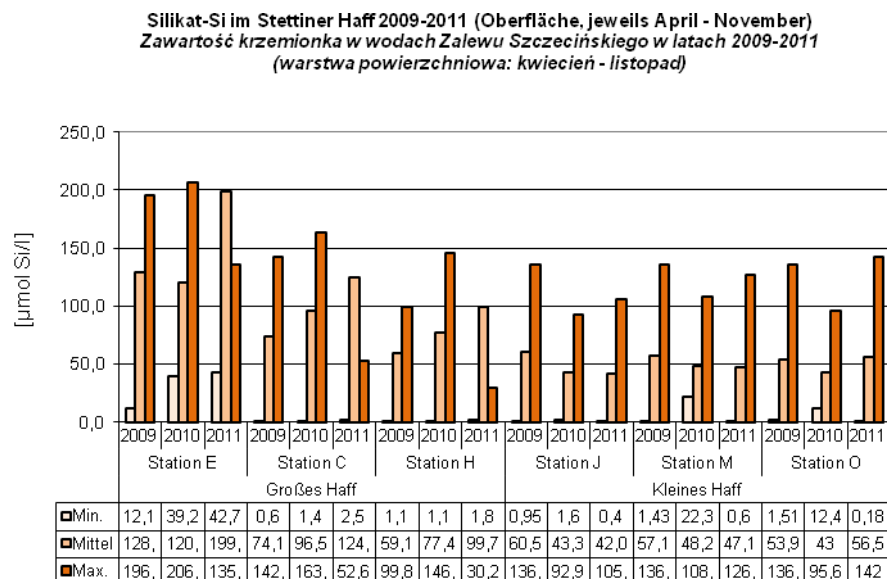


Abb. 3.2-55 / Rys. 3.2-55



Stettiner Haff Zalew Szczeciński  
Sichttiefe (April – November) *Przezroczystość (kwiecień – listopad)*

Abb. 3.2-56 / Rys. 3.2-56

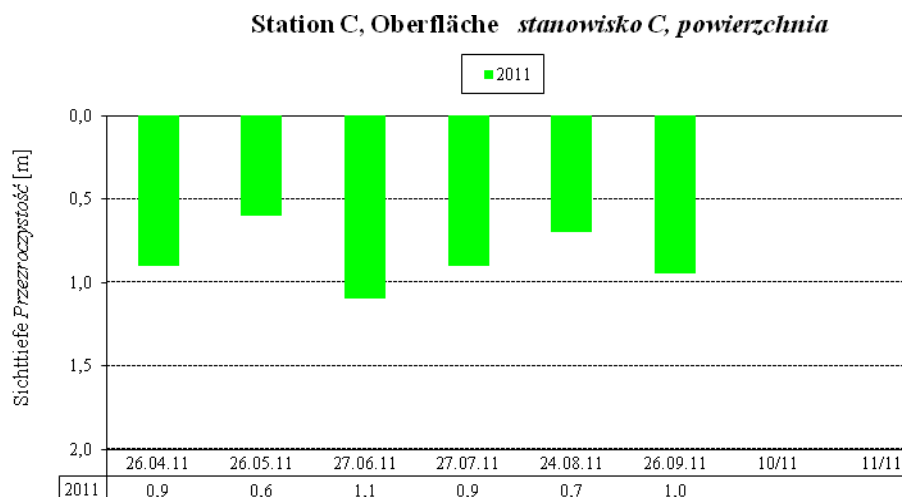


Abb. 3.2-57 / Rys. 3.2-57

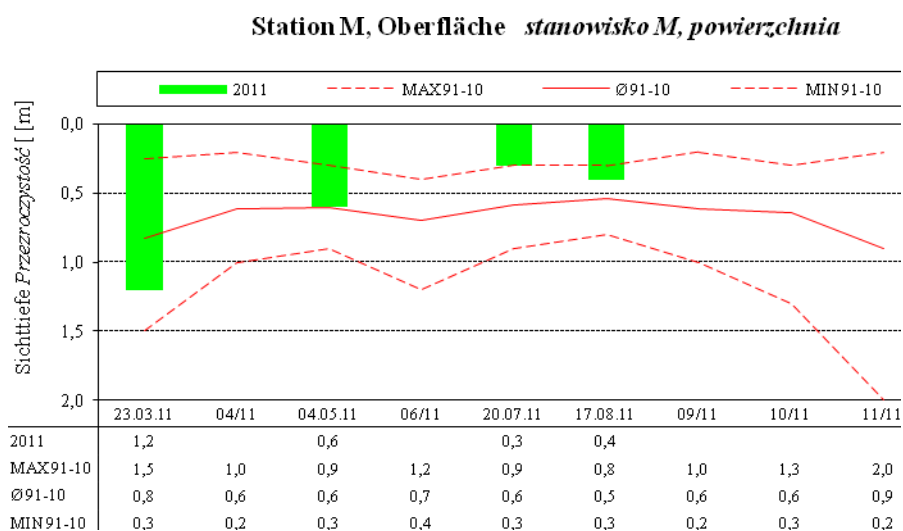


Abb. 3.2-45 / Rys. 3.2-45

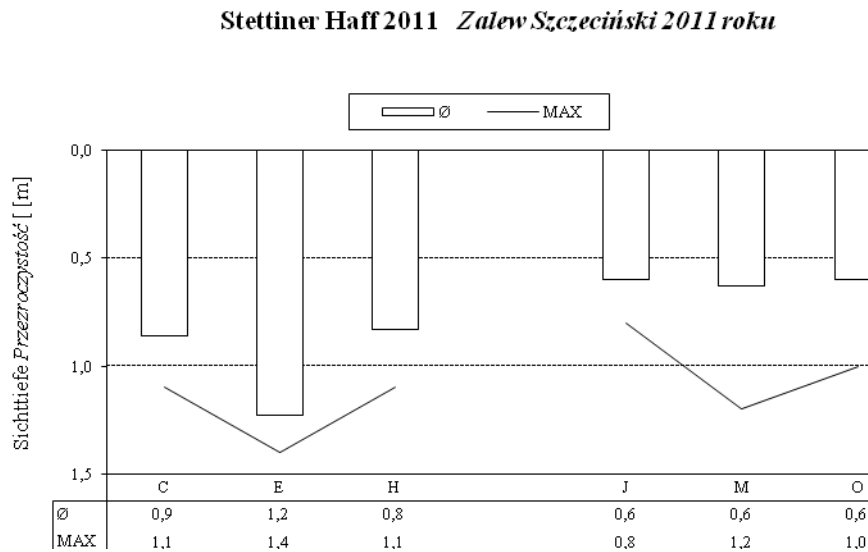
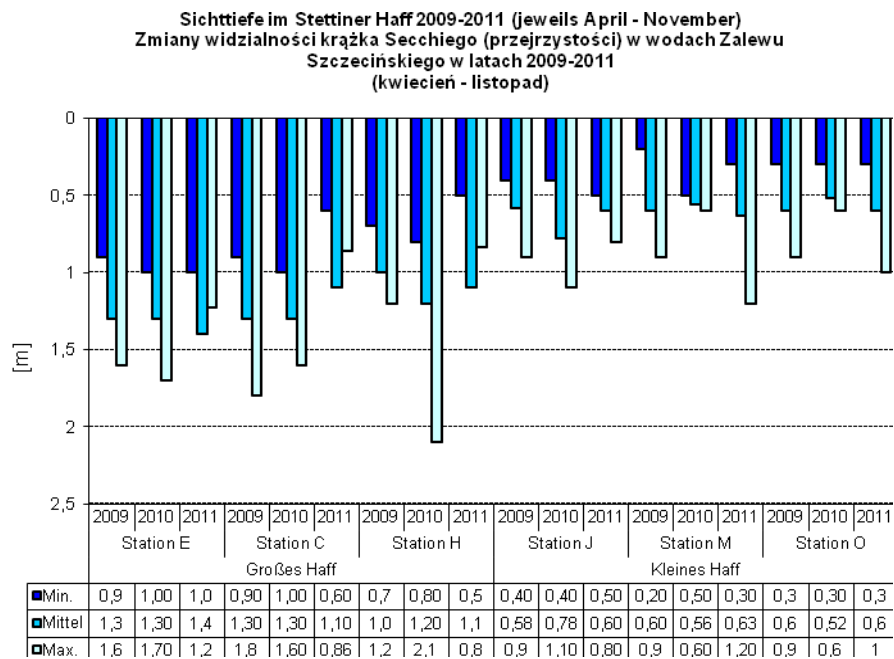


Abb. 3.2-59 / Rys. 3.2-59





Stettiner Haff Zalew Szczeciński  
Chlorophyll-a (April – November) *Chlorofil-a (kwiecień – listopad)*

Abb. 3.2-60 / Rys. 3.2-60

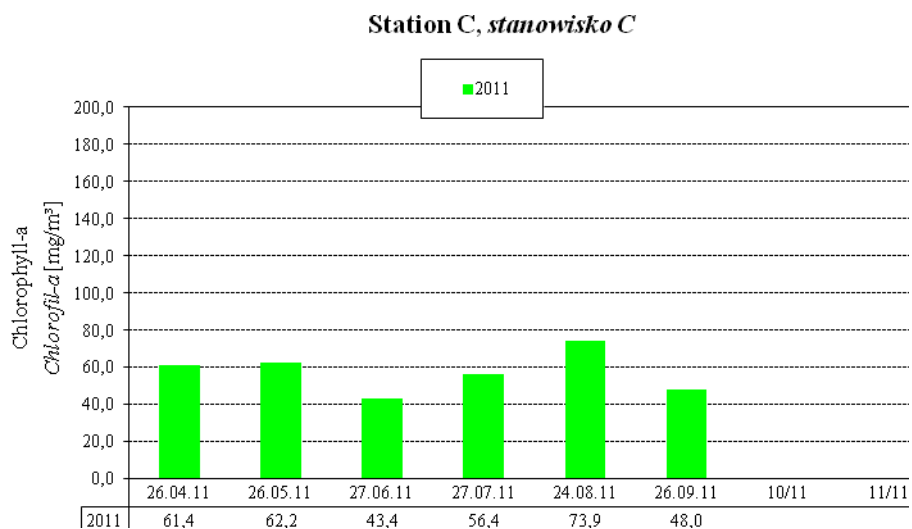


Abb. 3.2-61 / Rys. 3.2-61

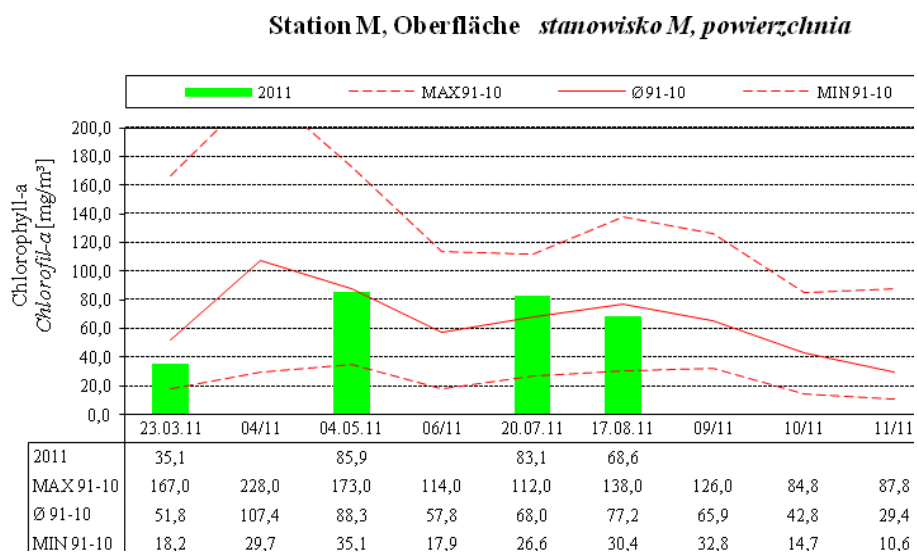


Abb. 3.2-62 / Rys. 3.2-62

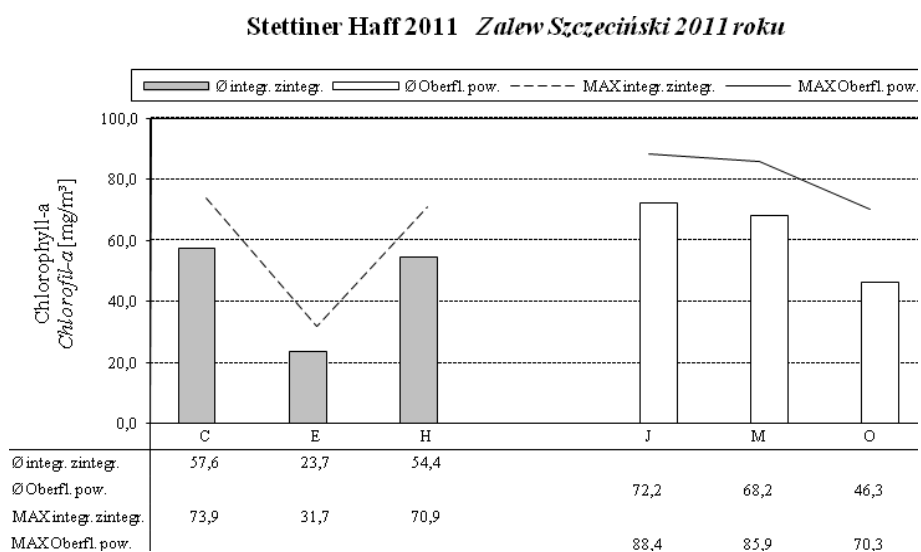
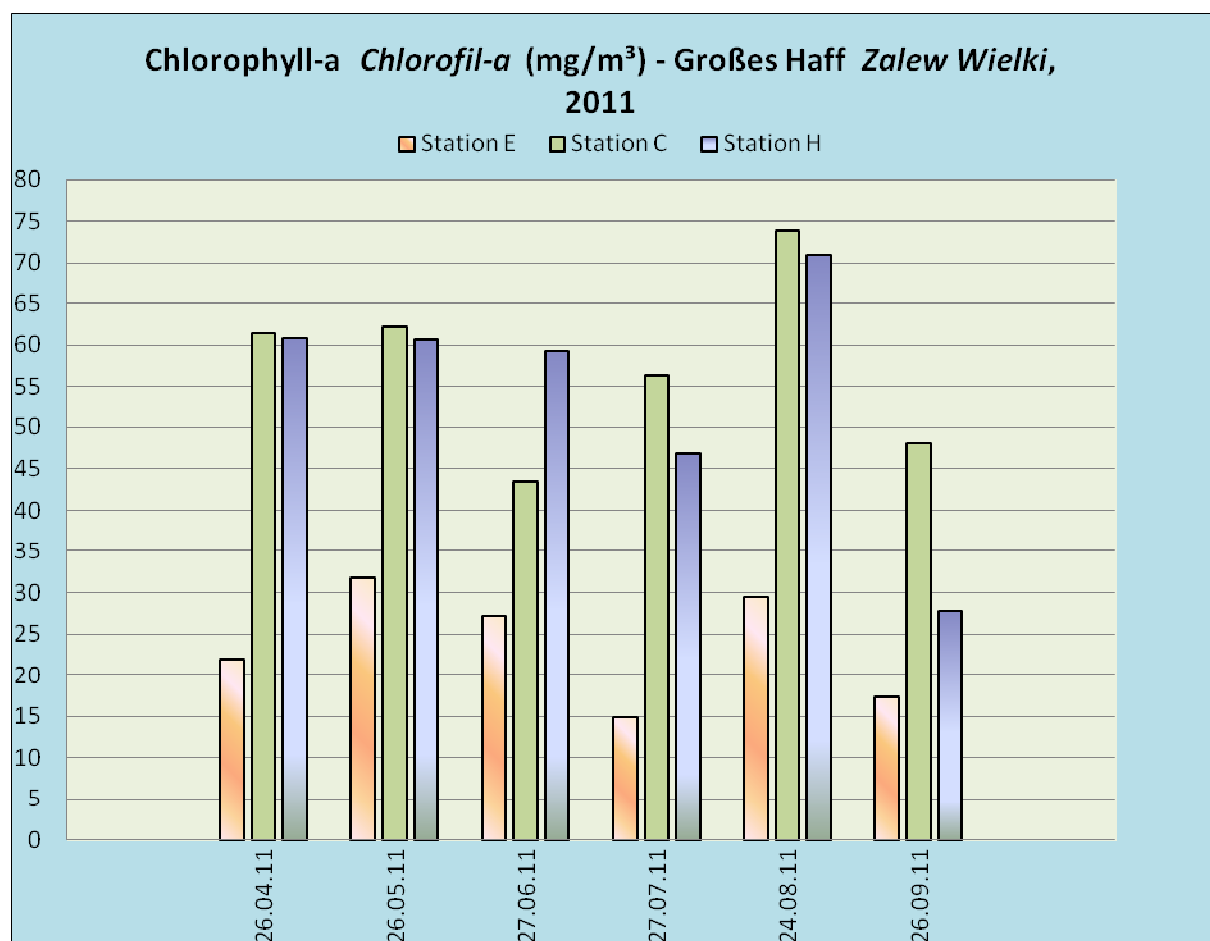


Abb. 3.2-63 / Rys. 3.2-63



Stettiner Haff Zalew Szczeciński  
 Phytoplankton (April – November) *Fitoplanktonu (kwiecień – listopad)*

Abb. 3.2-64 / Rys. 3.2-64

Individuenzahl *Liczebność fitoplanktonu* [Ind./ml] - Station C *stanowisko C* (Integr. *zintegr.*)

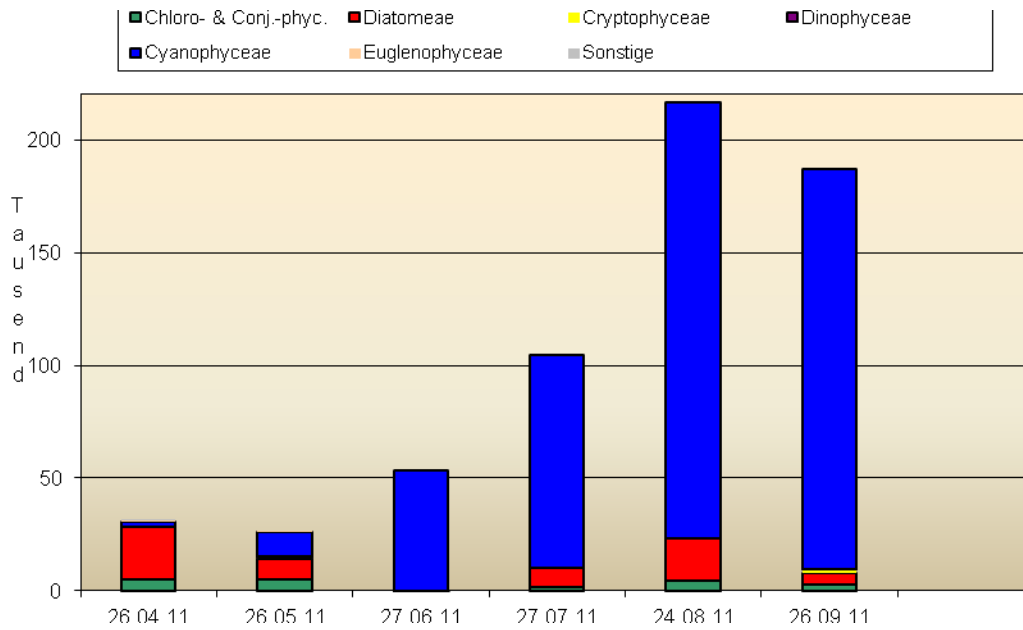


Abb. 3.2-65 / Rys. 3.2-65

Biovolumen *Biomasa fitoplanktonu* [mm<sup>3</sup>/l] - Station C *stanowisko C* (Integr. *zintegr.*)

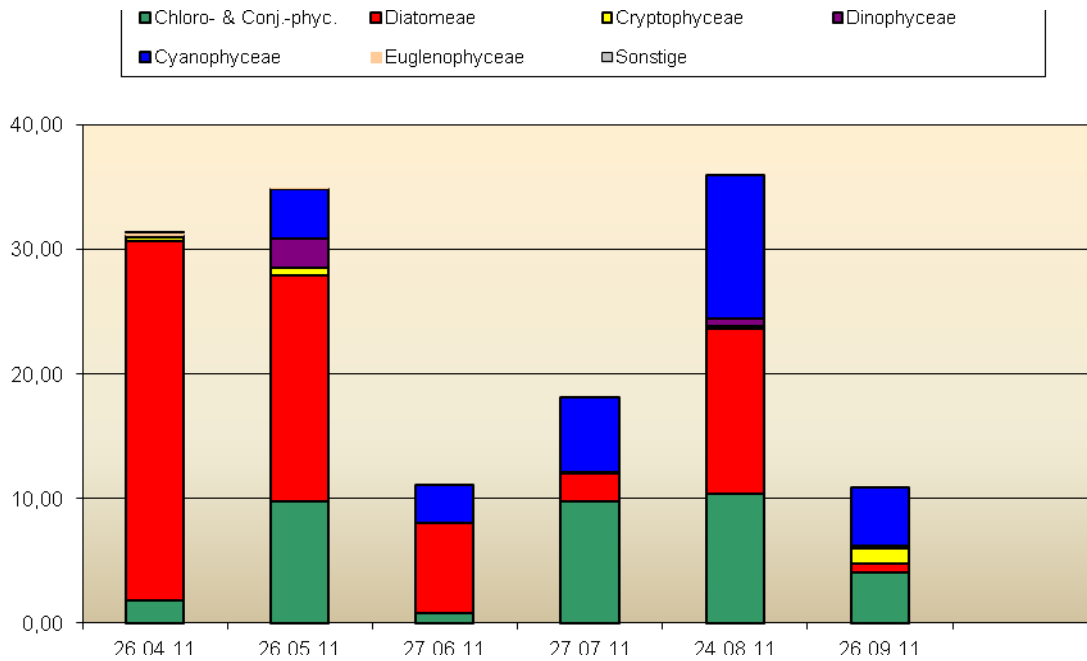


Abb. 3.2-66 / Rys. 3.2-66

Individuenzahl *Liczebność fitoplanktonu* [Ind./ml] - Station M *stanowisko M* (Oberfläche *Warstwa powierzchniowa*)

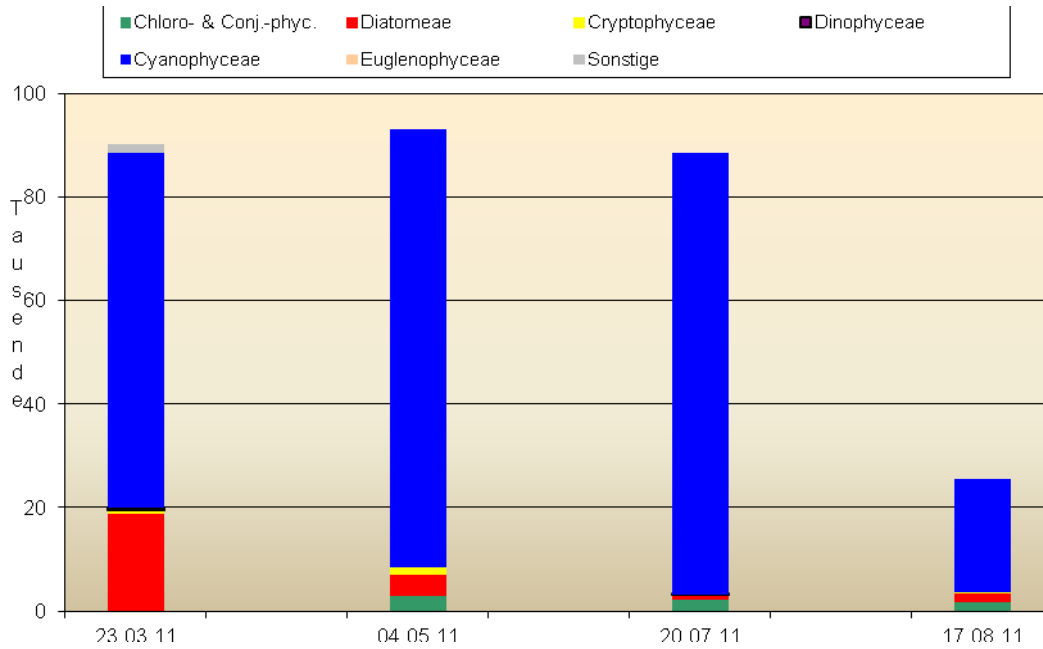


Abb. 3.2-67 / Rys. 3.2-67

Biovolumen *Biomasa fitoplanktonu* [mm<sup>3</sup>/l] - Station M *stanowisko M* (Oberfläche *Warstwa powierzchniowa*)

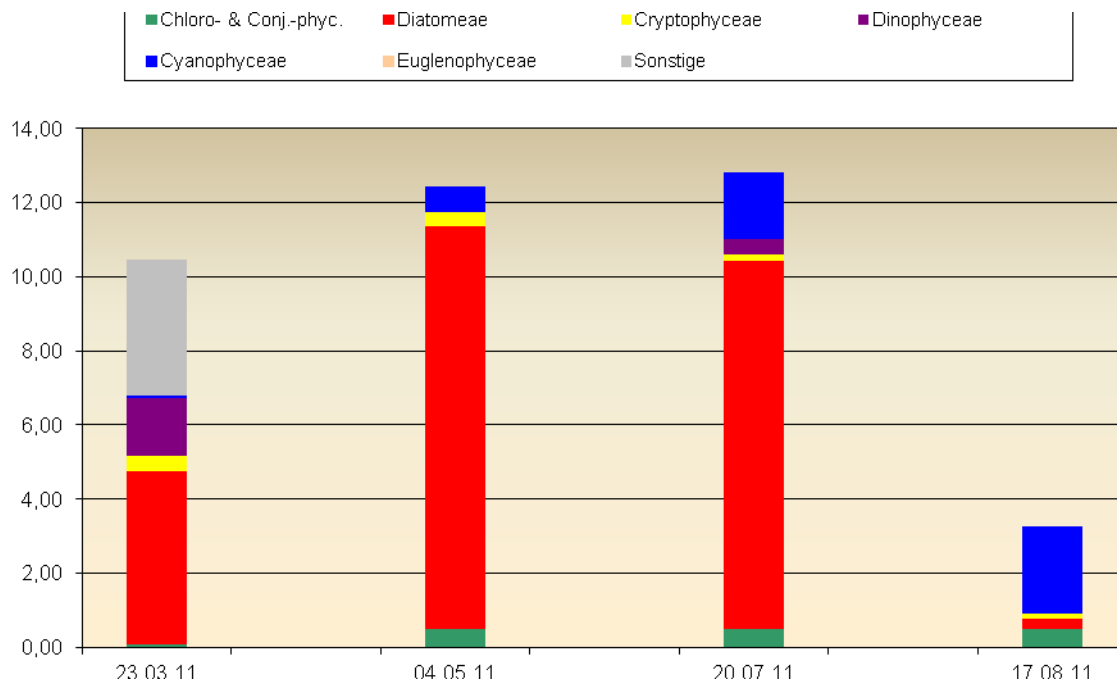


Abb. 3.2-68 / Rys. 3.2-68

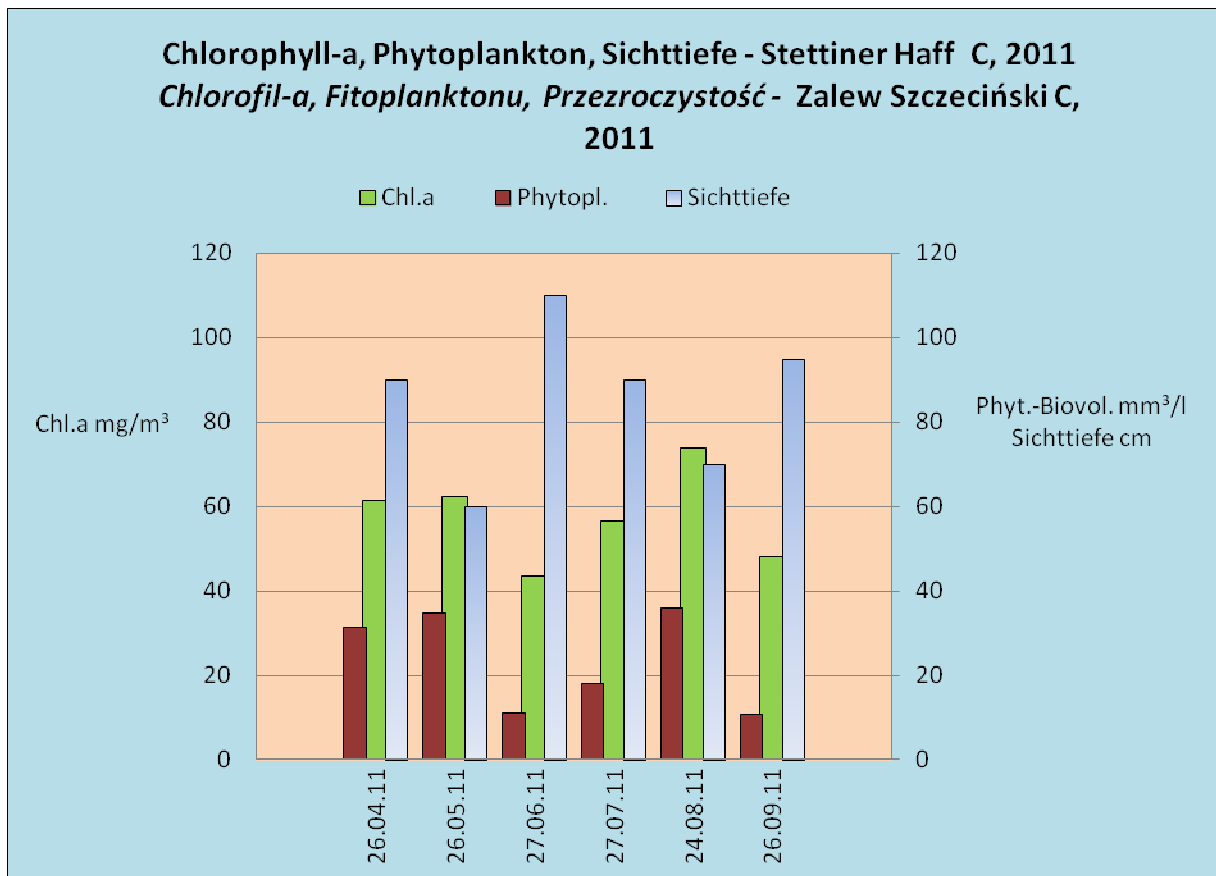


Abb. 3.2-69 / Rys. 3.2-69

