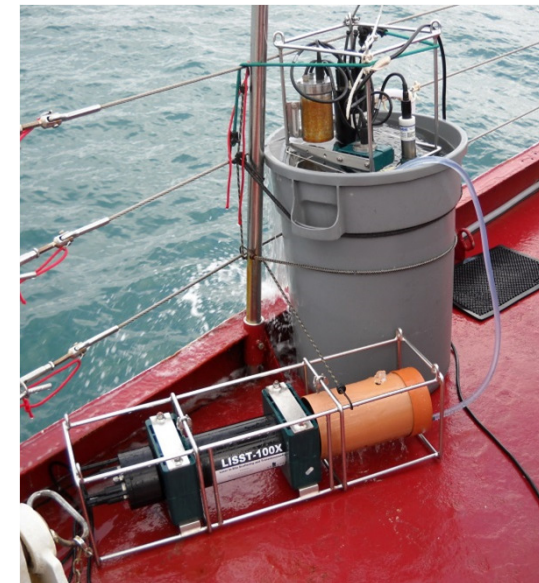
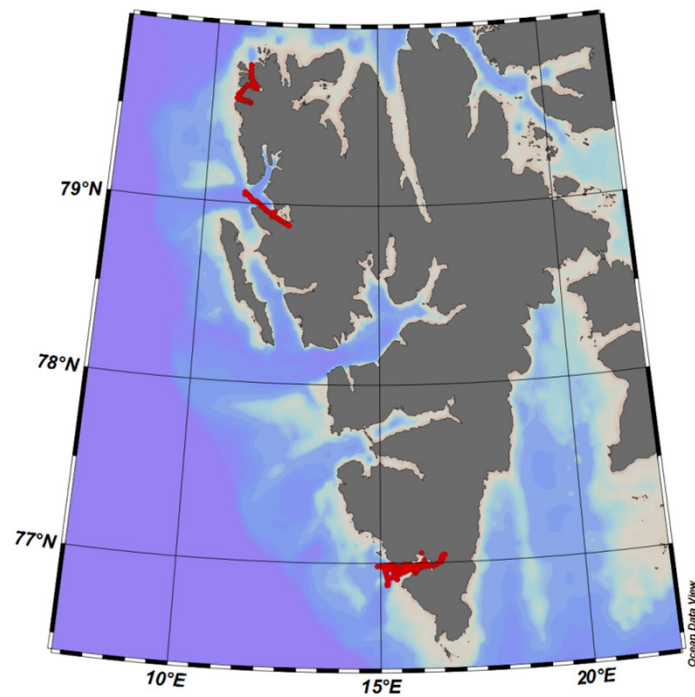
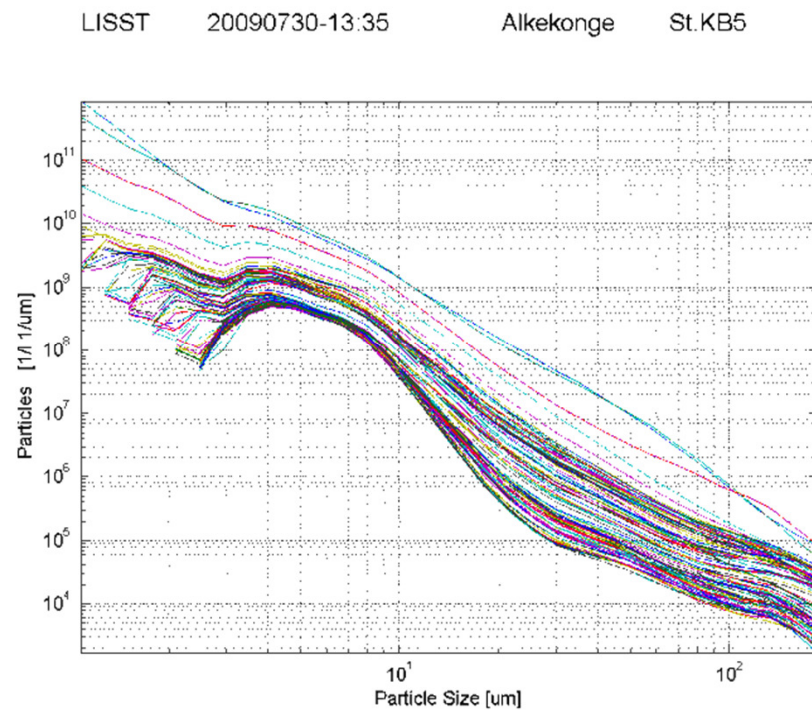
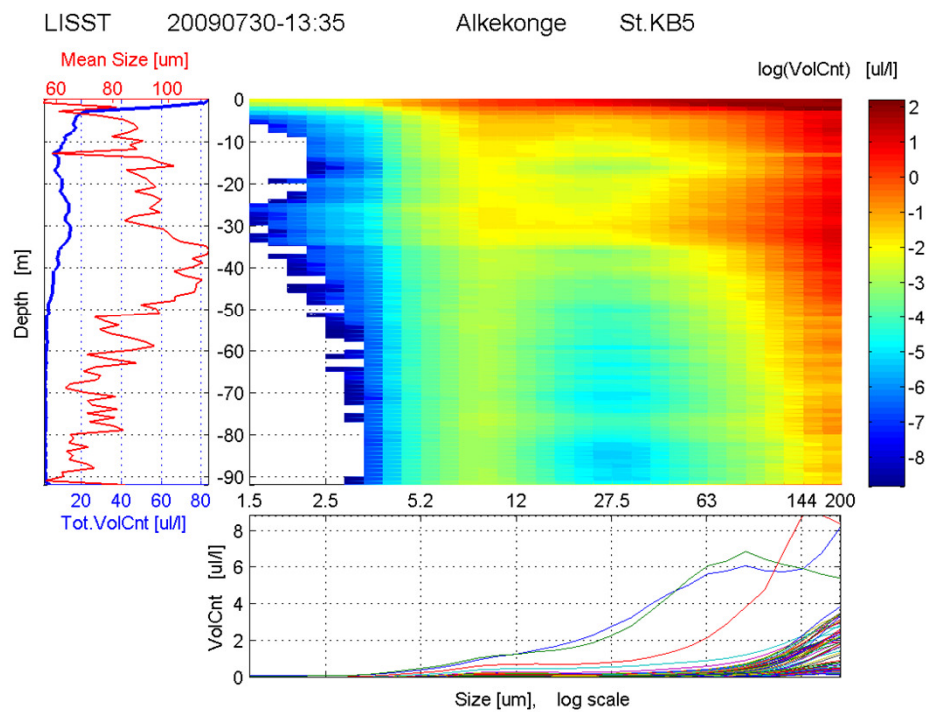


Optical properties of fjords waters and suspensions distribution

Sławomir Sagan, Mirosław Darecki

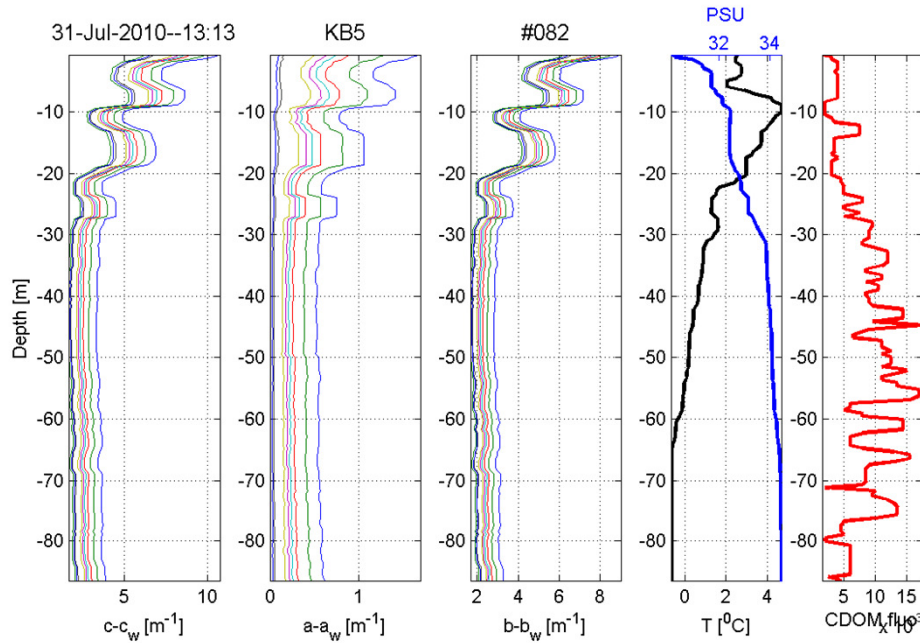


Cząstki w wodzie i ich rozkłady rozmiarów, miernik LISST



nanoPlankton, 2 – 20 μm
mikroPlankton, 20 – 200 μm

Właściwości optyczne wody, pomiary za pomocą ac9

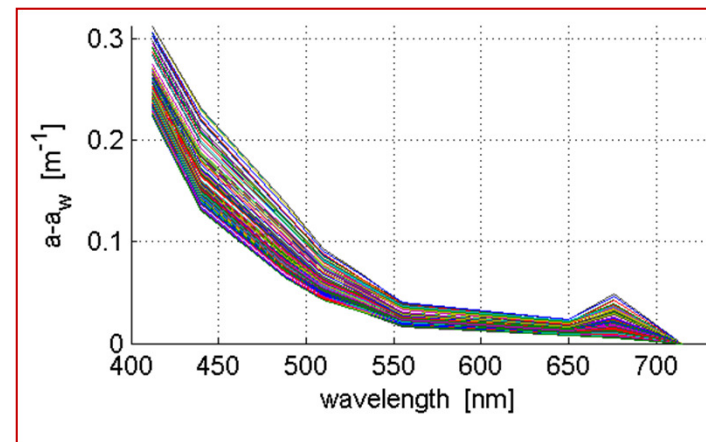
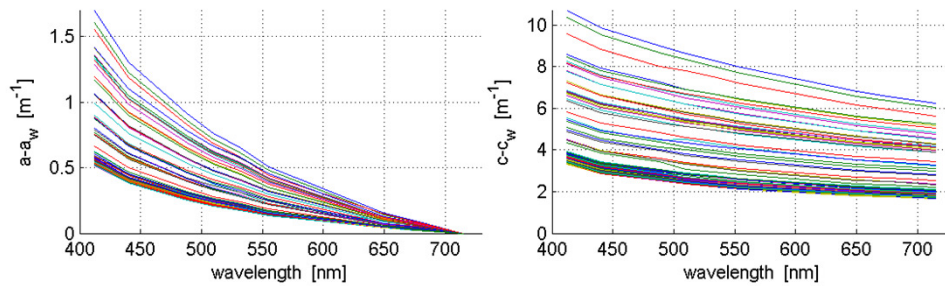


osłabianie = absorpcja + rozpraszanie

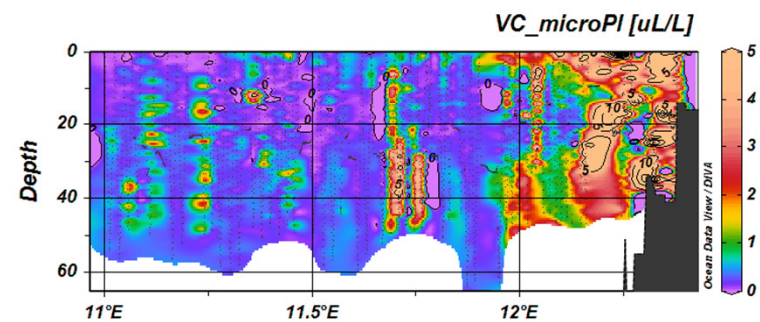
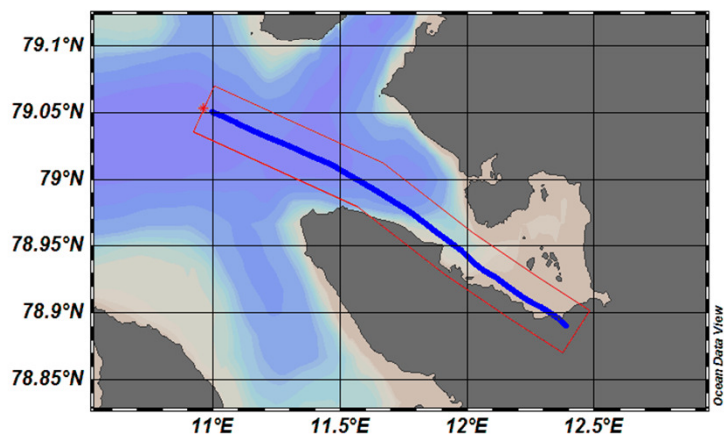
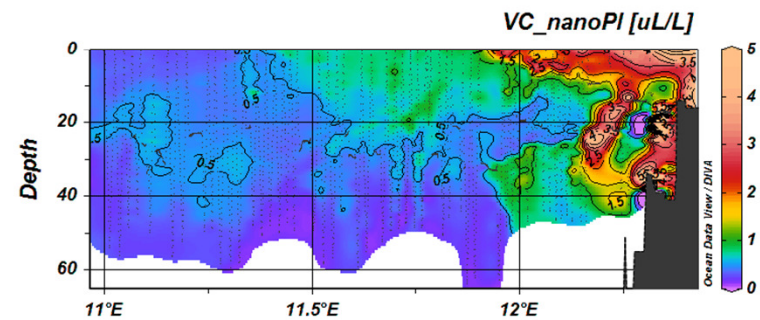
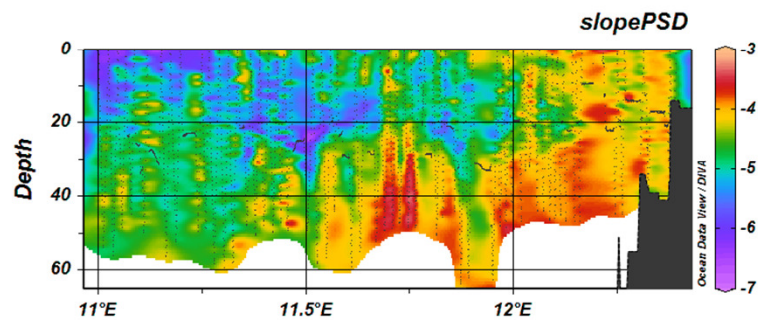
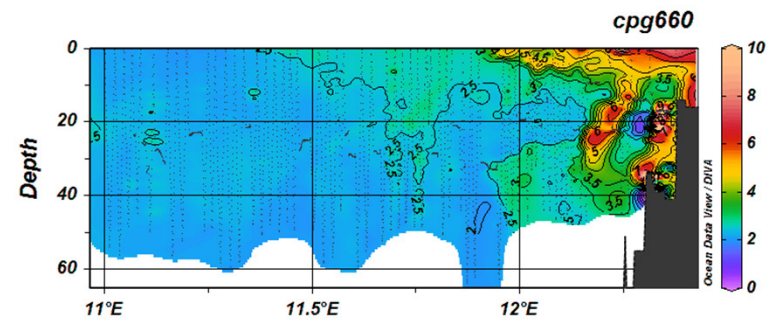
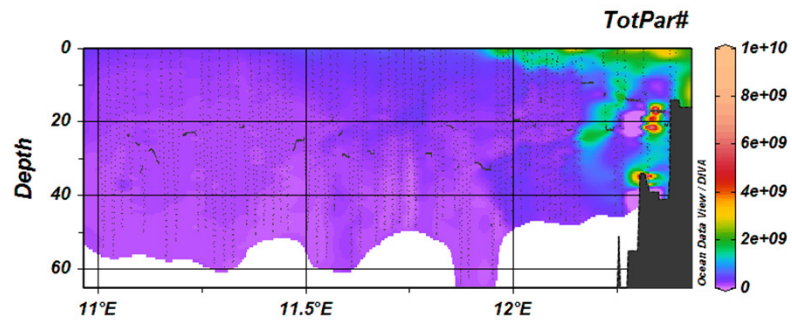
$$c = a + b$$

wskaźniki optyczne: ~ cząstki planktonowe

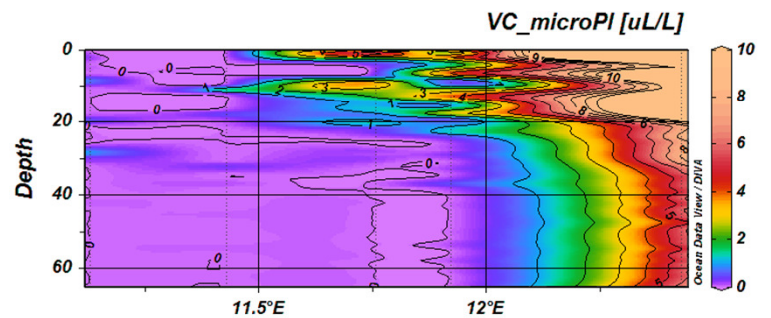
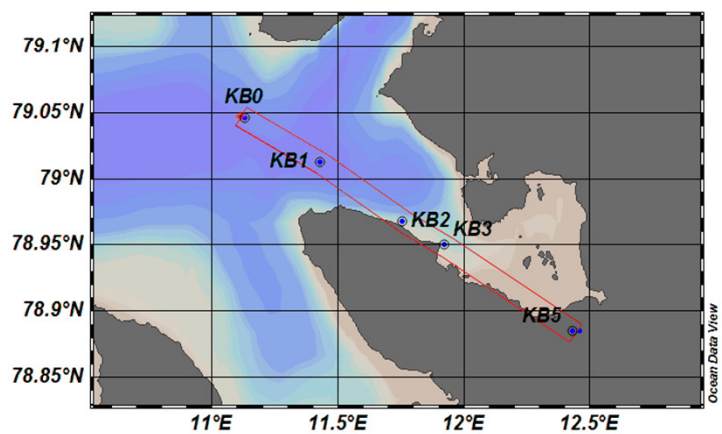
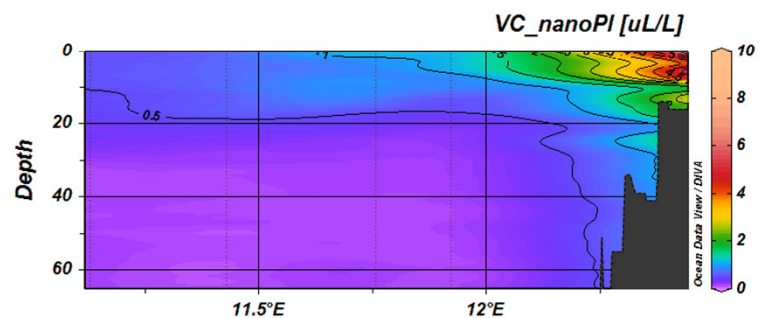
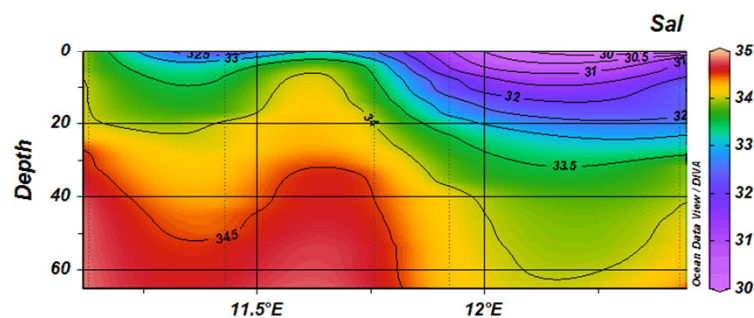
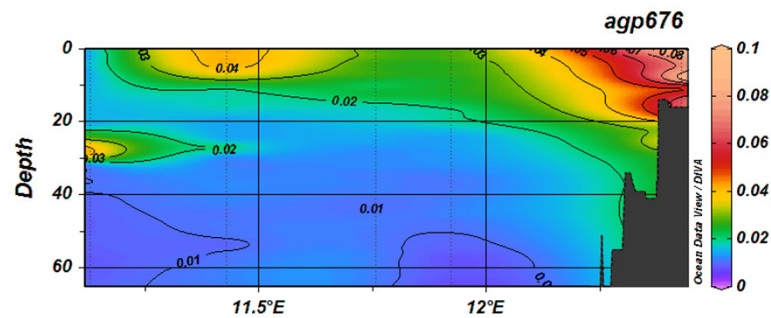
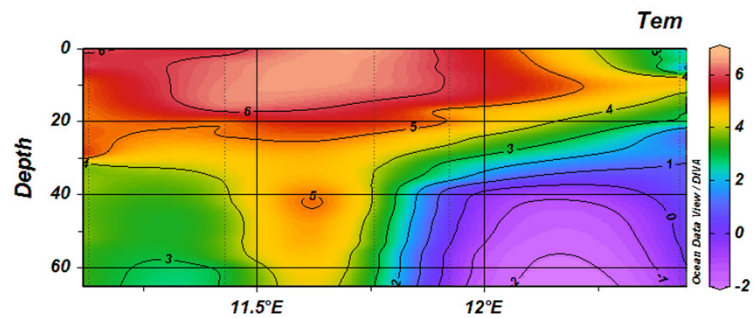
$$\frac{a_{gp}(676nm)}{c_{gp}(650nm)}, \quad a_{gp}(676nm)$$



Zróźnicowanie przestrzenne właściwości optycznych oraz zawiesin



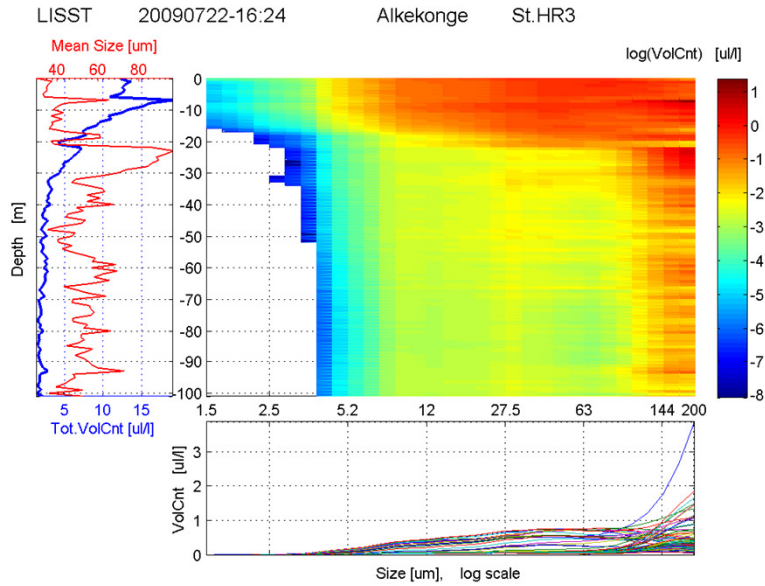
2015-08-04, V6-KB5 LISST



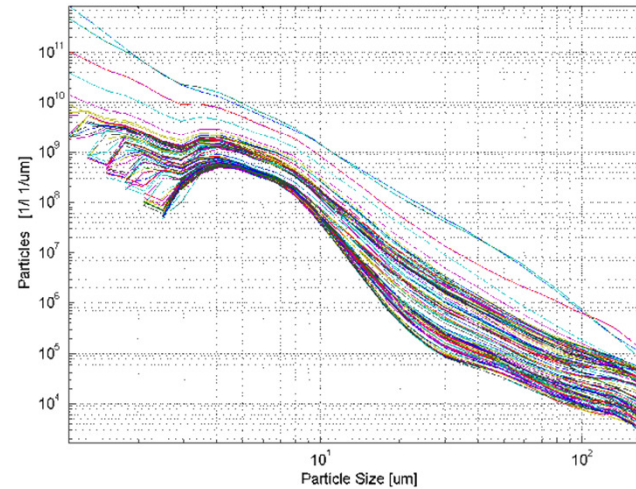
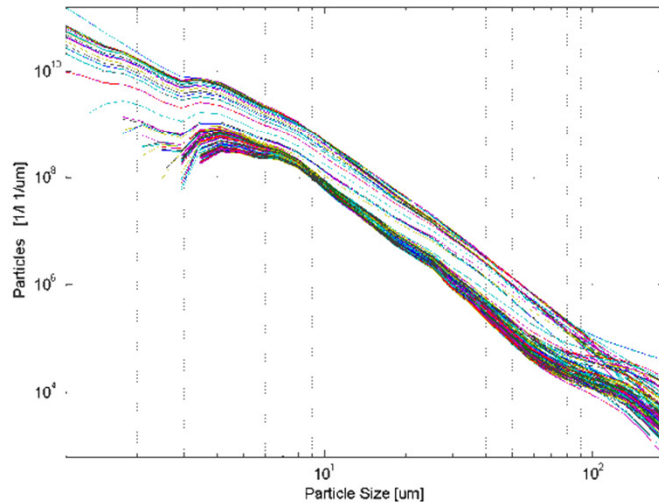
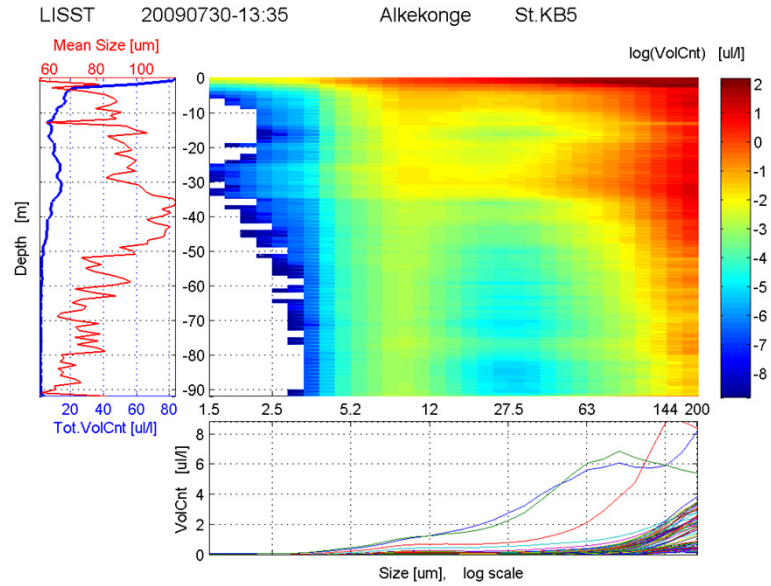
2010-07-31 Kongsfiord

Cząstki w wodzie, stacje w pobliżu lodowca

Hornsund

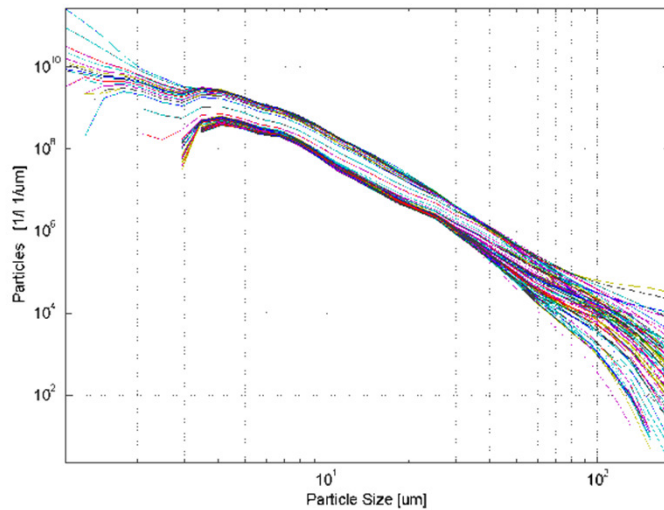
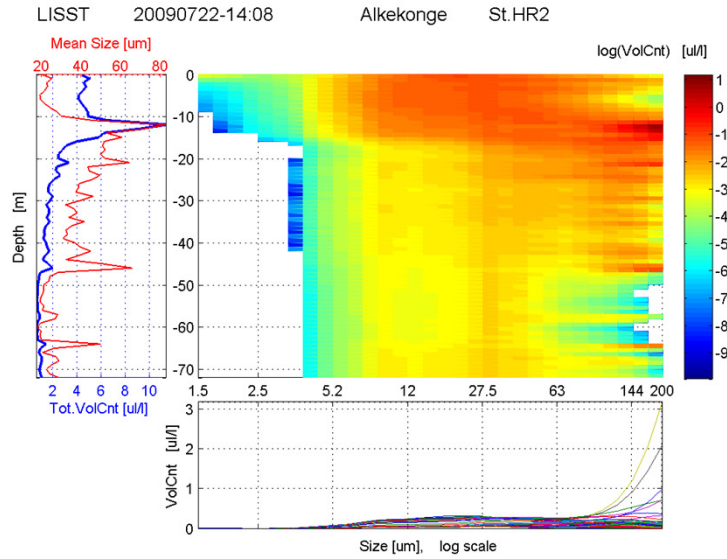


Kongsfiord

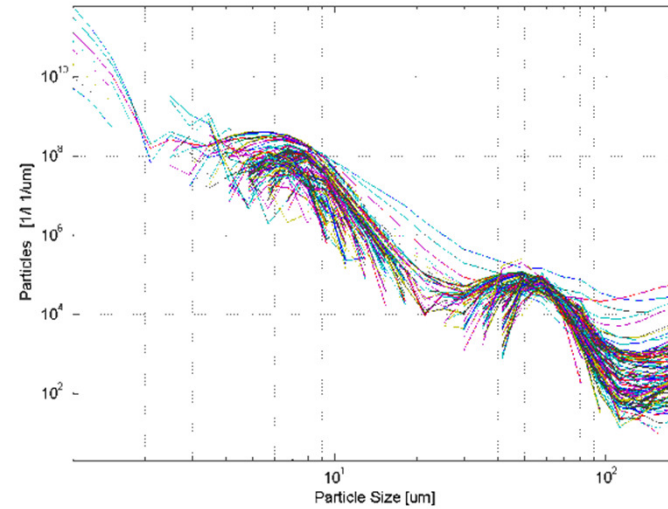
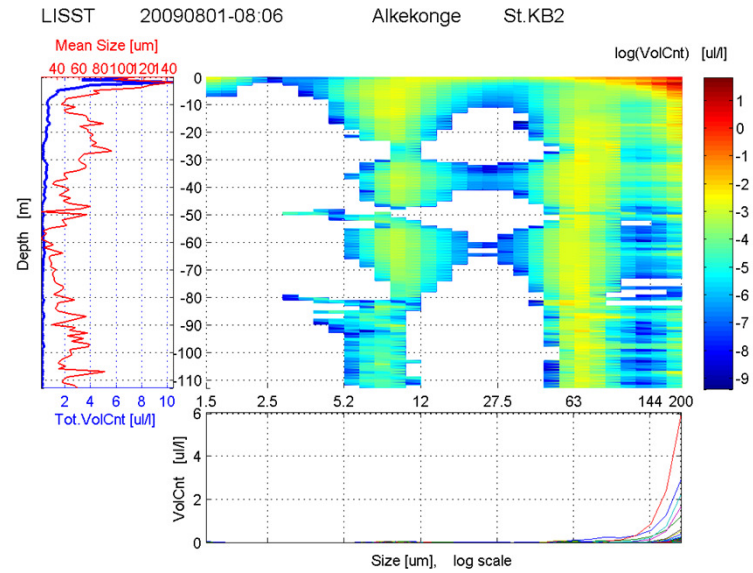


Cząstki w wodzie, część centralna fiordu

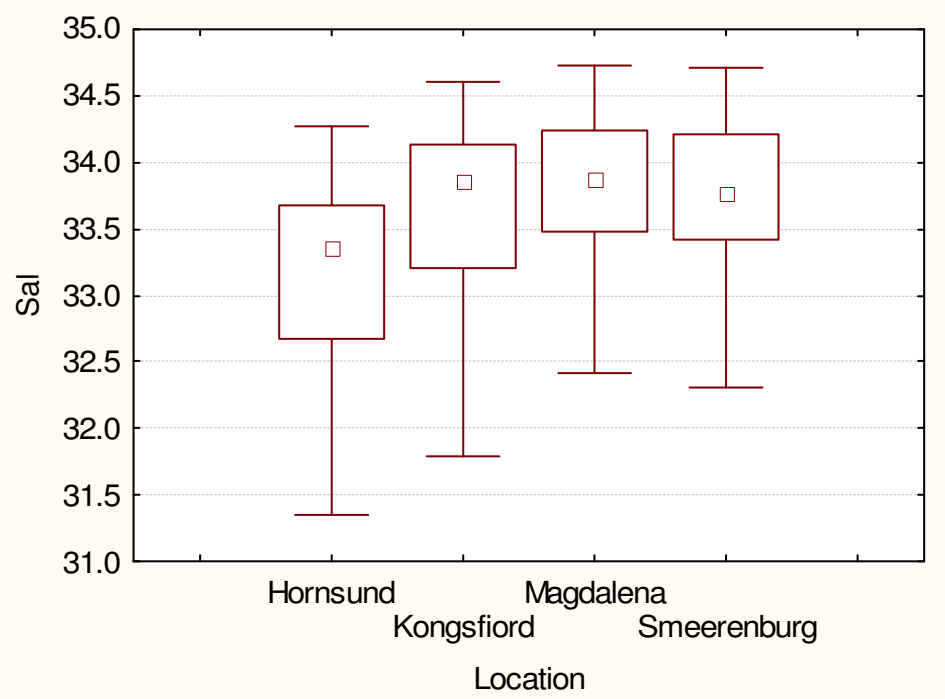
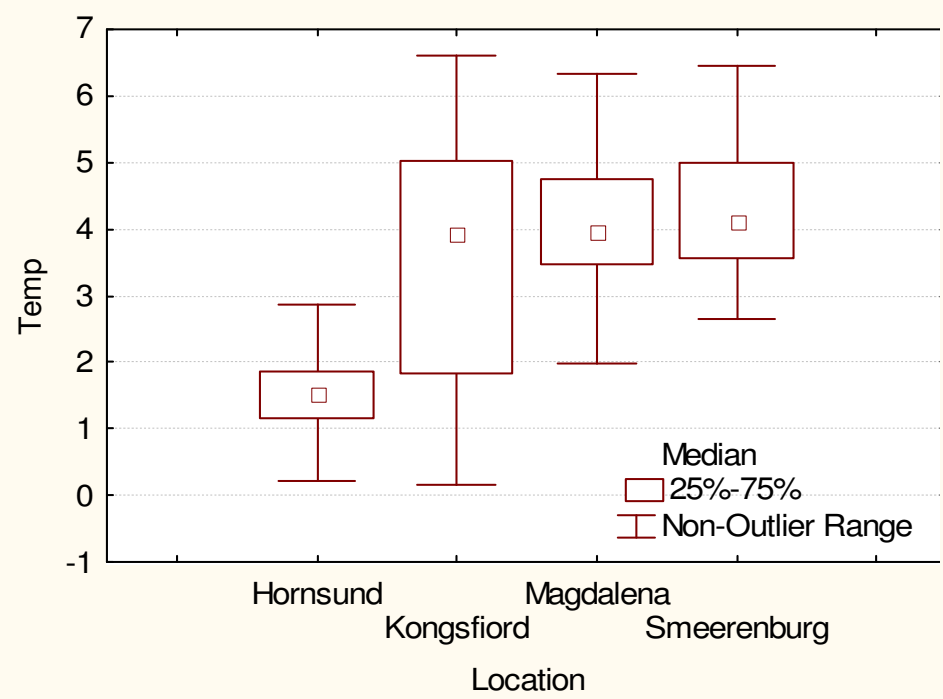
Hornsund



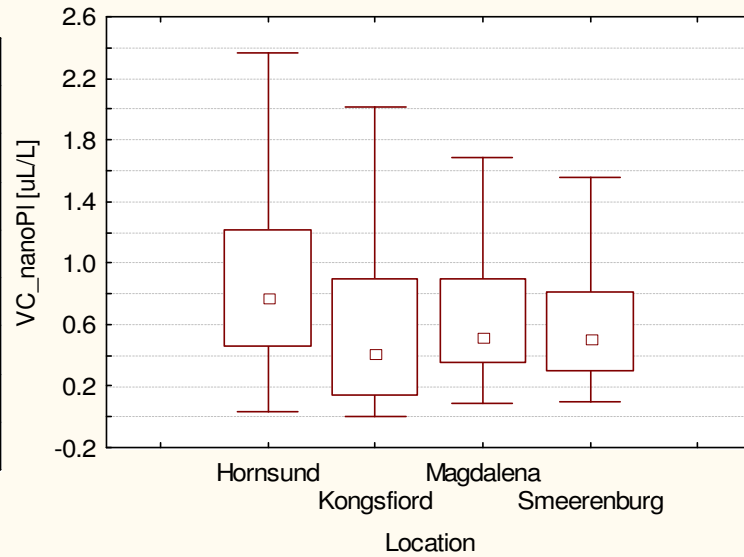
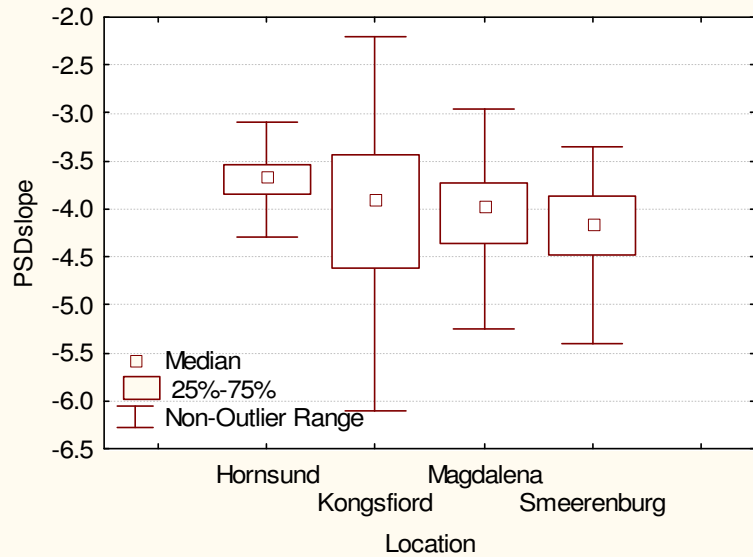
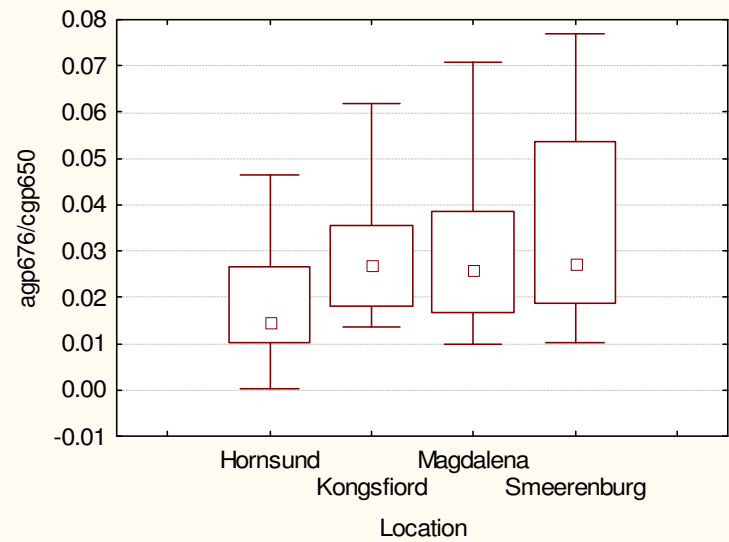
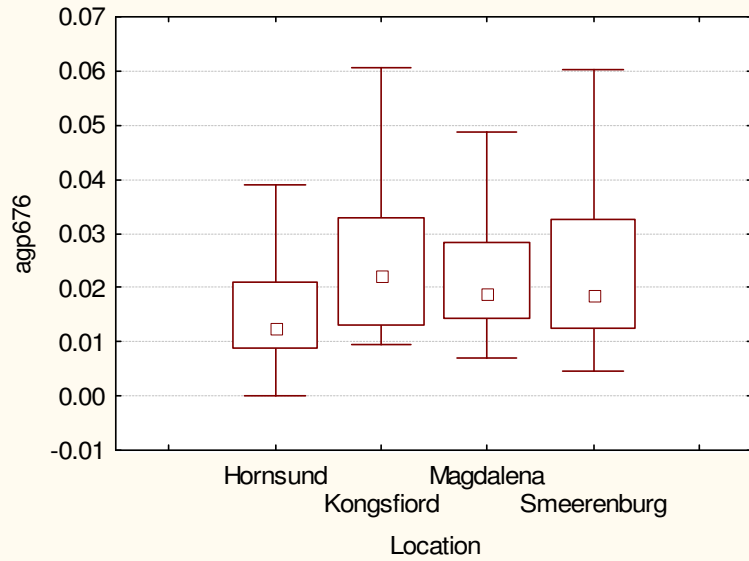
Kongsfiord



Temperatura i zasolenie, część centralna fiordów, gł. 0 – 50 m



Wskaźniki optyczne oraz zawiesinowe, część centralna fiordów, gł. 0 – 50 m



Wskaźnik r^2 dla relacji koncentracji objętościowej zawiesin z absorpcją światła w paśmie absorpcji chlorofilu, $a_{gp}(676 \text{ nm})$

gł. 0 – 50 m, bez wód przyłodowcowych

	Hornsund N=924	Kongsfiord N=436	Magdalena N=574	Smeerenburg N=508
nPlankton, 2 – 20 μm	0.409	0.699	0.187	0.445
uPlankton, 20 – 200 μm	0.004	0.701	0.033	0.061