Online resource 1. List of variables characterizing sea-ice habitat and underlying water column measured at the sampling locations across Eurasian Basin during RV Polarstern ARK XXVII/3 expedition, August – October 2012

1. Sea ice concentration from visual observations during SUIT hauls,
2. Satellite-derived sea ice concentration,
3. Sea ice coverage derived from SUIT sensors during hauls,
4. Surface water temperature,
5. Surface water salinity,
6. Surface chlorophyll $a$ concentration,
7. Sea-ice thickness,
8. Standard deviation of ice thickness,
9. Roughness of ice thickness,
10. Ridge coverage,
11. Difference from solar maximum,
12. Solar maximum value,
13. Fraction of the solar maximum,
14. Difference from freezing point,
15. Stratification index,
16. Water body code,
17. Mixed layer depth (MLD),
18. Temperature at MLD,
19. Salinity at MLD,
20. Turbidity at MLD,
21. Chlorophyll $a$ concentration at MLD,
22. Nitrate+nitrite concentration at MLD,
23. Phosphate concentration at MLD,
24. Silicate concentration at MLD,
25. Nitrate concentration at MLD,
26. Nitrite concentration at MLD,
27. Chlorophyll $a$ concentration at chlorophyll $a$ maximum depth,
28. Nitrate+nitrite concentration at the chlorophyll $a$ maximum depth,
29. Phosphate concentration at the chlorophyll $a$ maximum depth,  
30. Silicate concentration at the chlorophyll $a$ maximum depth.

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