



SeaDataNet

PAN-EUROPEAN INFRASTRUCTURE
FOR OCEAN & MARINE DATA
MANAGEMENT

Report on the Arctic V1 and V1.1 Historical Data Collection

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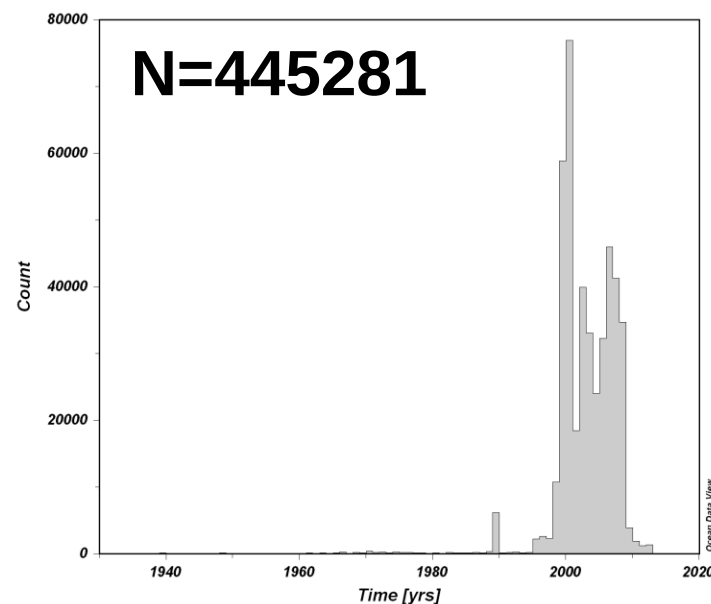
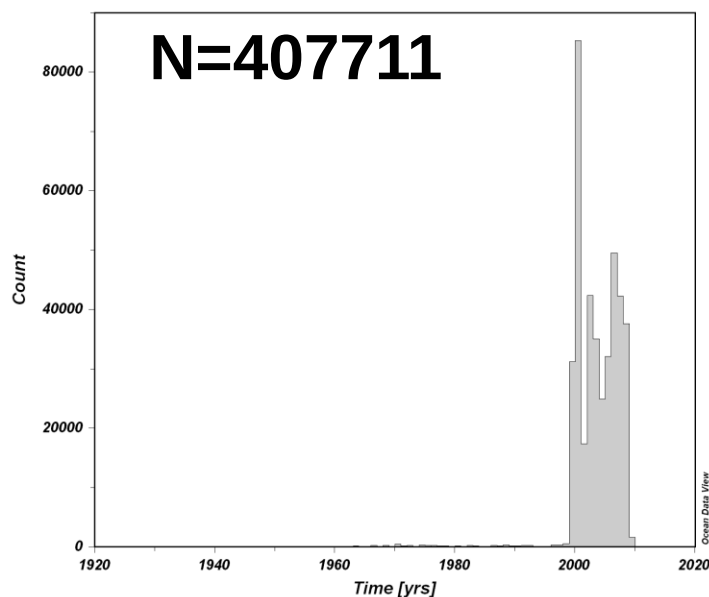
Improvements during SDN Project

V1

1900-2013



V1.1



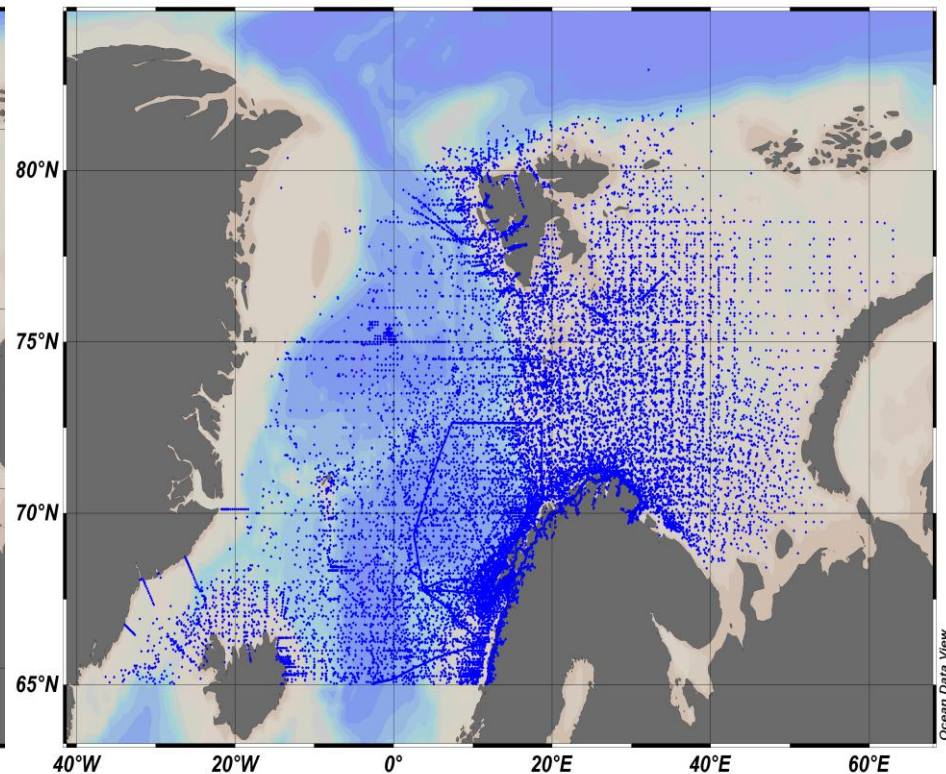
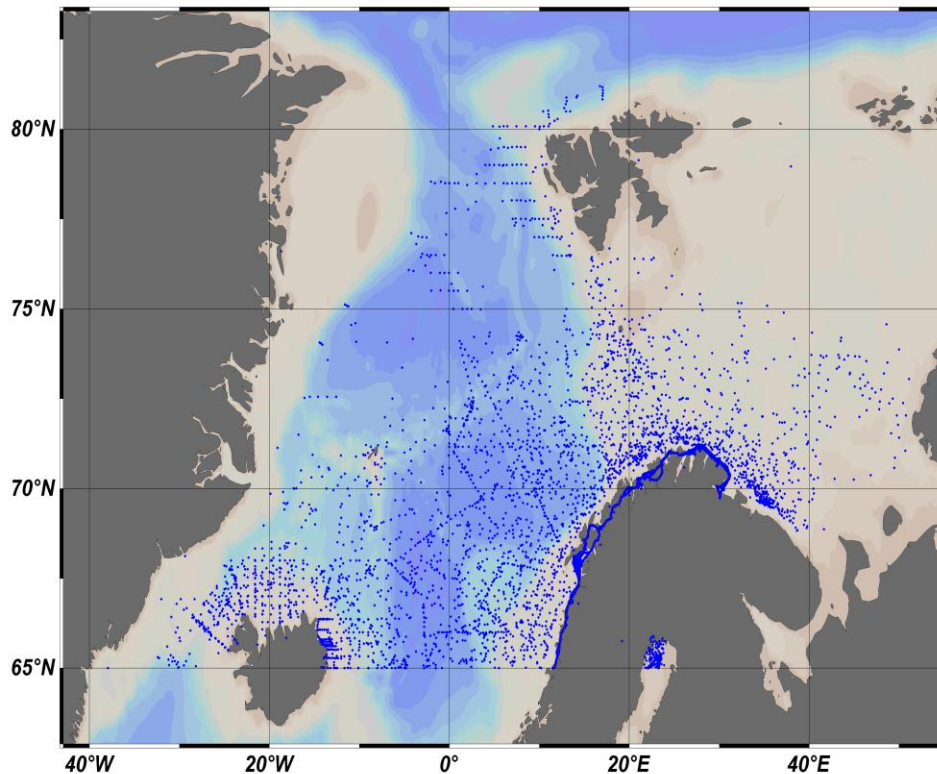
Data population for the time period 1900-2013 increased aprox 40000 data points

Improvements Arctic data

V1



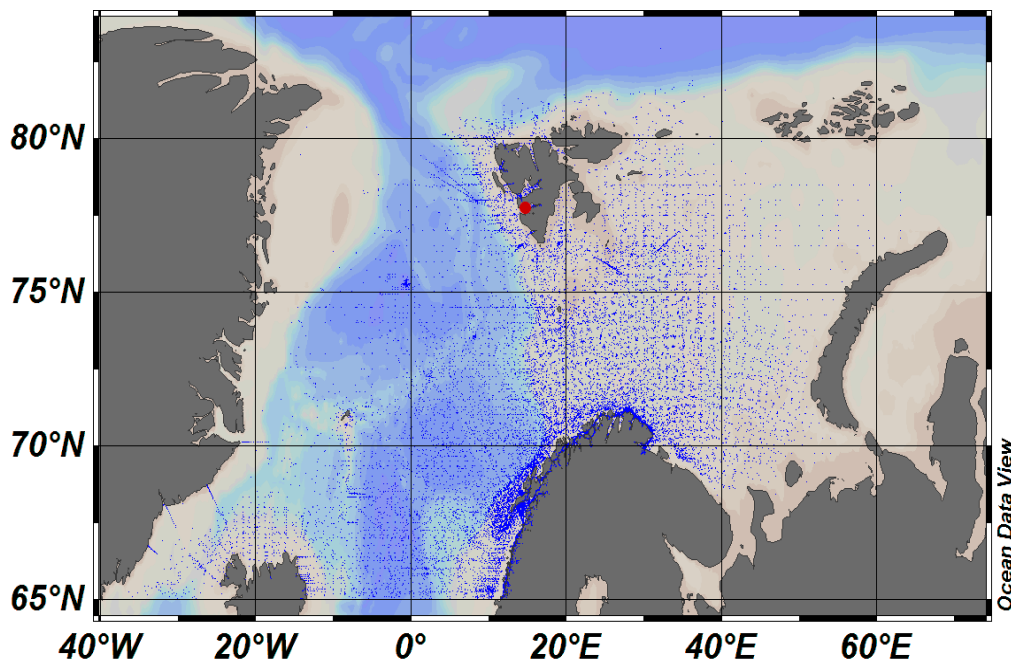
V1.1



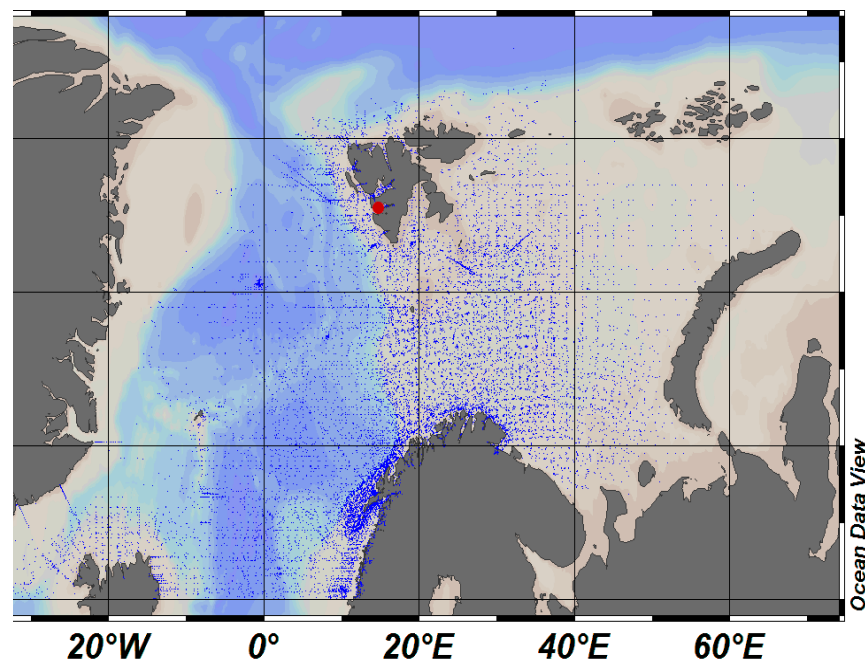


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Data Distribution and Density Map V1.1



TEMPERATURE



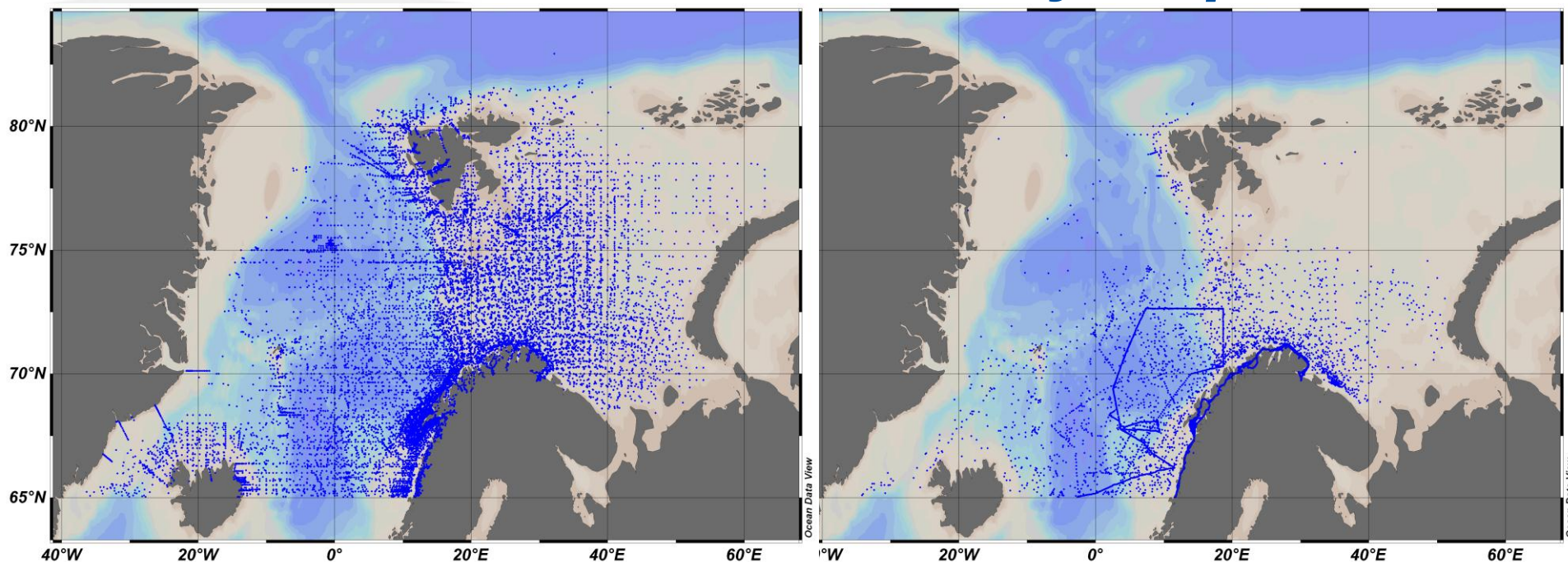
SALINITY

PAR	# points
	445281
T	444099
S	41434



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Data Distribution and Density Map V1.1



T&S

PAR	# points
	445281
TS	41377
notTS	403904

Not T&S

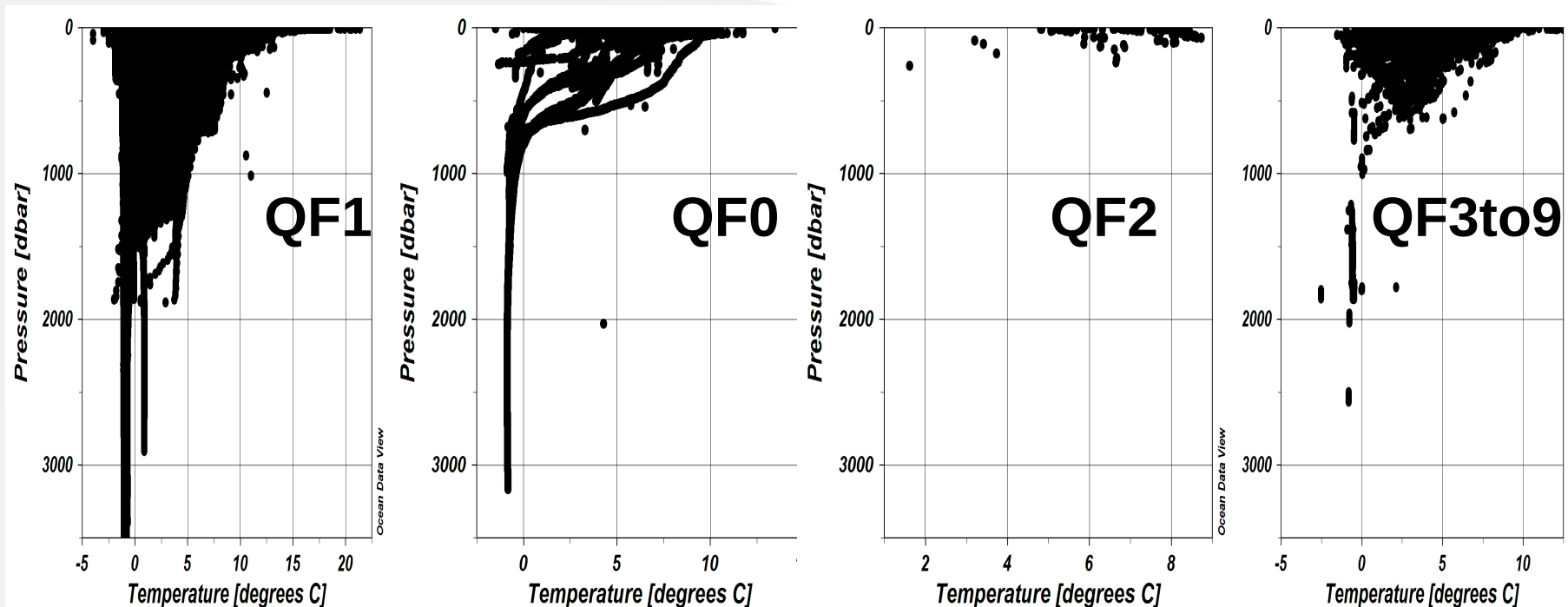
N=403904



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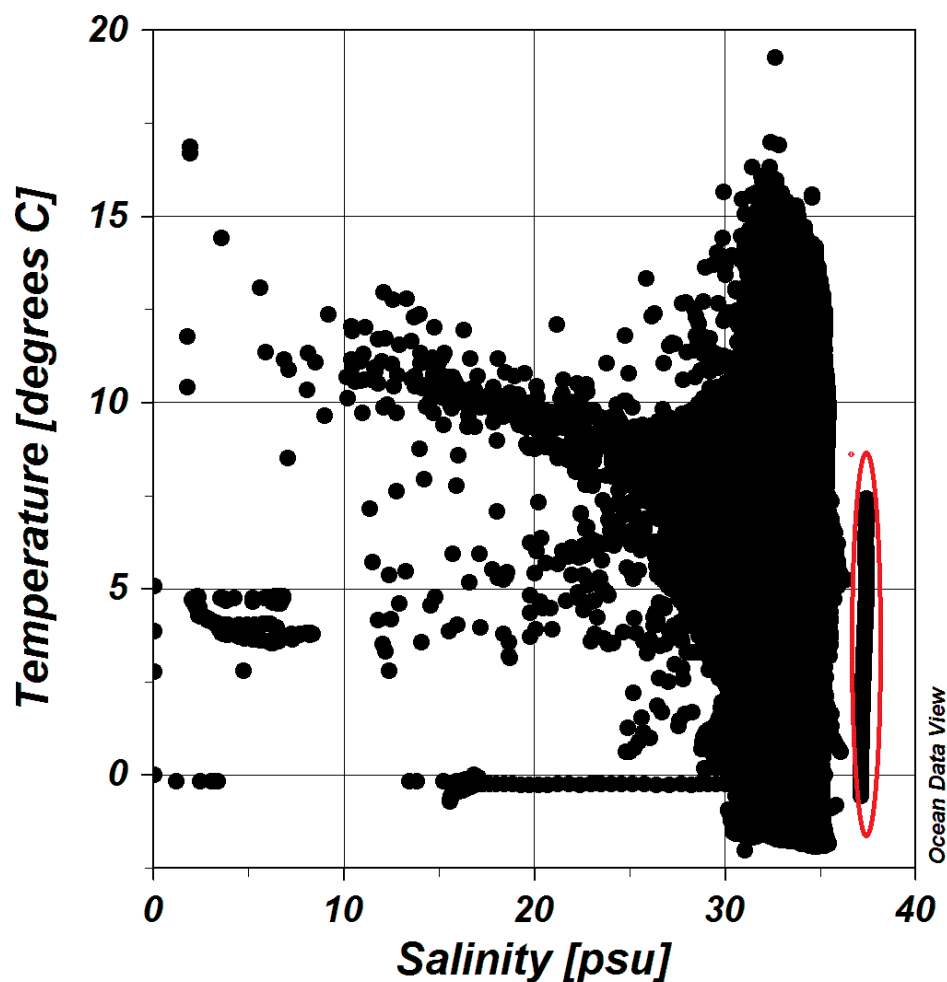
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Scatter Plots: TEMPERATURE



	TOT	QF0	QF1	QF2	QF>3
T	14358188	12357 0.08%	14338010 99.85%	136 0.00094%	7685 0.05%

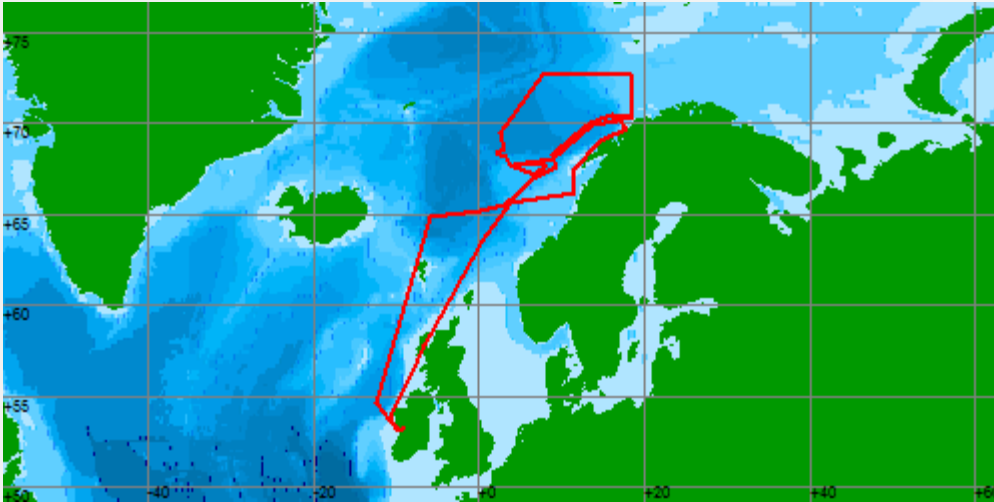
TS diagrams



QF 1 Good
on two stations

Surprisingly
IMR stations

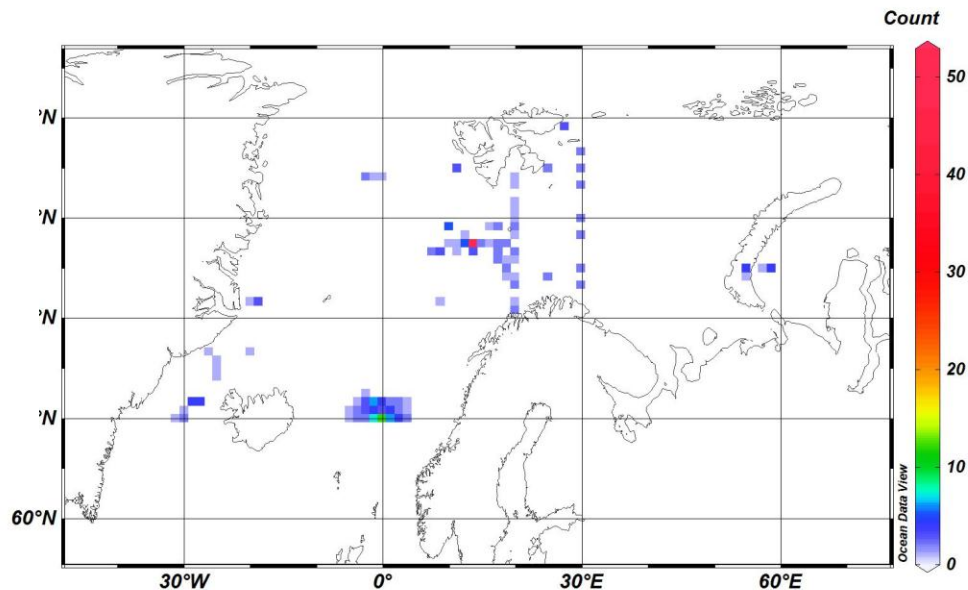
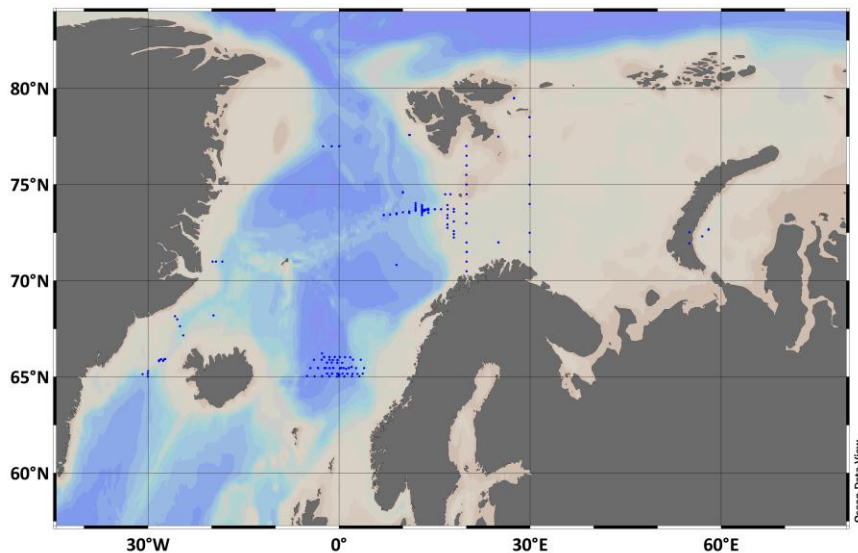
Data points with no TS data



TS data with T and S flagged as 9 (both missing)

Bathy data and termograph data with Salinity flagged as 9 (missing)

Arctic restricted Data Set



PAR	# points
	245
T	245
S	245
TS	245

Conclusions

- V1.1 data collection contains more data than V1 version
 - Aprox 30.000 new CTD casts
- V1.1 data quality is better than V1
- Restricted data is very few in the Arctic
 - 245 TS datapoints
- QC analysis of V1.1 data set highlighted:
 - bad data, flagged as good
 - Quality controlled good data flagged as no QC -> QF=0