



ПРИМЕНЕНИЕ ГИС ТЕХНОЛОГИЙ В SIWARE

**Беспрозванных А.В.
Зав. лабораторией комплексной
автоматизации**

Реализованные технологии на базе CliWare

- *система управления климатическими данными для организаций Росгидромета;*
- *система сбора, обработки, представления оперативных данных;*
- *система обслуживания внешних потребителей оперативными данными;*
- *система ведения каталога сетевых подразделений Росгидромета;*
- *формирование архивов оперативной информации по метеорологии, океанографии, судовой метеорологии, климату и аэрологии;*
- *формирование бюллетеня температурного режима.*

Система внедрена в 22 организациях.

Перечень стандартов используемых в ГИС технологиях CliWare

- Web Coverage Service (WCS);
- Web Feature Service (WFS);
- Web Map Service (WMS);
- Catalogue Service (CSW).

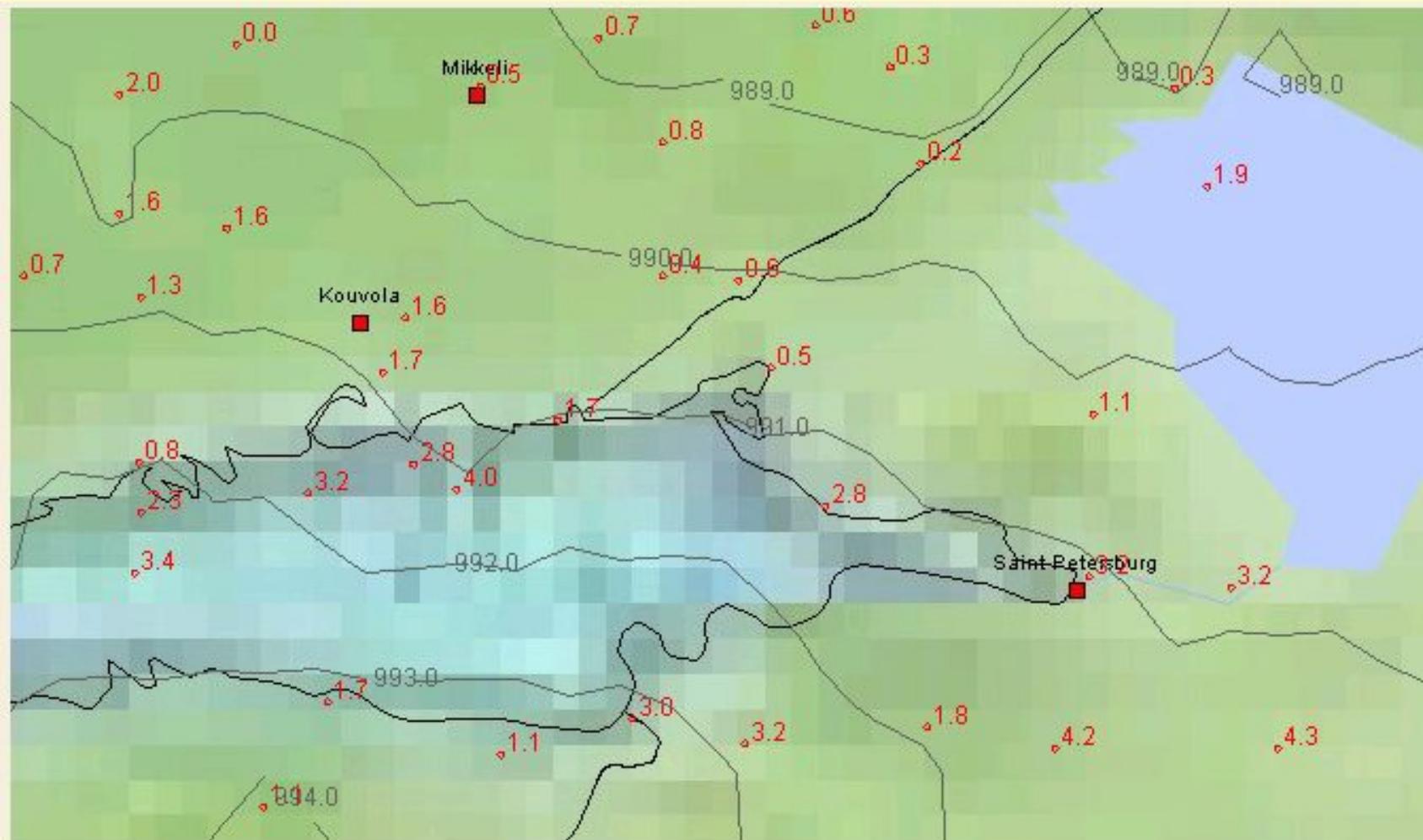
Web Coverage Service (WCS)



Web Feature Service (WFS); GML документ

- `<gml:featureMember>`
- `<cr:gis_vol9a fid="gis_vol9a.29570.0">`
- `<cr:regionid>2</cr:regionid>`
- `<cr:regionname>ASIA</cr:regionname>`
- `<cr:countryarea>RUSSIAN FEDERATION (IN ASIA)</cr:countryarea>`
- `<cr:countrycode>2010</cr:countrycode>`
- `<cr:stationid>1340</cr:stationid>`
- `<cr:indexnbr>29570</cr:indexnbr>`
- `<cr:indexsubnbr>0</cr:indexsubnbr>`
- `<cr:station_nm>KRASNOJARSK OPYTNOE POLE</cr:station_nm>`
- `<cr:lat>56.30</cr:lat>`
- `<cr:lon>92.75</cr:lon>`
- `<cr:hp>276</cr:hp>`
- `<cr:geom>`
- `<gml:Point srsName="http://www.opengis.net/gml/srs/epsg.xml#4326">`
- `<gml:coordinates xmlns:gml="http://www.opengis.net/gml" decimal="." cs="," ts="">`
- `92.75,56.3`
- `</gml:coordinates>`
- `</gml:Point>`
- `</cr:geom>`
- `</cr:gis_vol9a>`
- `</gml:featureMember>`

Карта, сформированная службой WMS



Поиск метаданных с использованием стандартов CSW

Portal DCPC, Obninsk
Data and Products Collection Centre,
WMO Information System (Russian Segment)

Home | Registration | Metadata | Data | Administration | Documents

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Simple search page

Simple search

Free text:

Coordinates:

Region:

Карта | Спутник

Данные карты ©2011 Geocentre Consulting, Tele Atlas - Условия использования

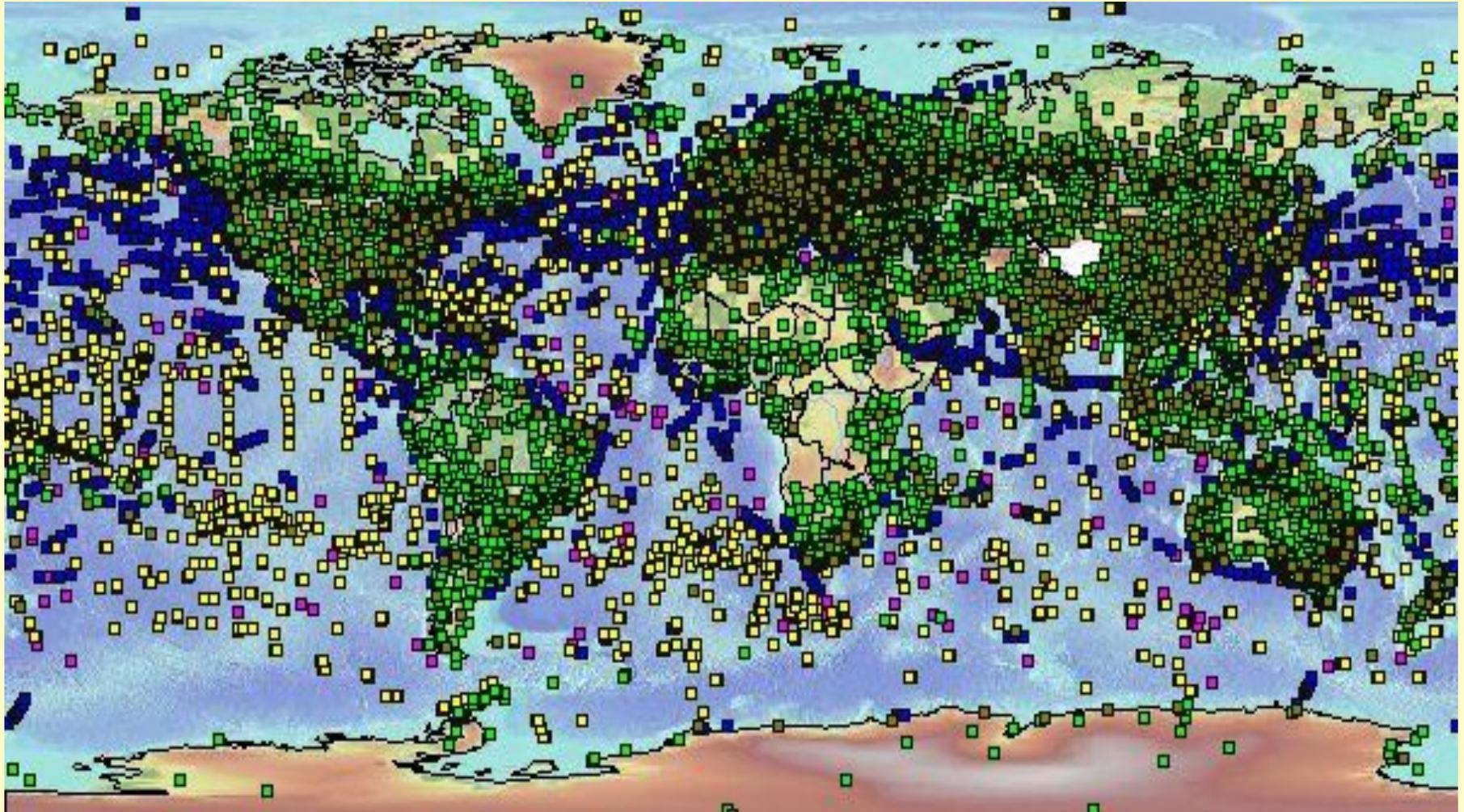
Metadata

<input type="checkbox"/>	Title	CreateDate	ChangeDate	Category	Acti
<input type="checkbox"/>	SMRS20 collection of SYNOP reports available from RUMS (MOSCOW) at 00, 06, 12 and 18 UTC	2011-10-13 13:15	2011-10-13 13:15	series	
<input type="checkbox"/>	SMRS17 collection of SYNOP reports available from RUMS (MOSCOW) at 00, 06, 12 and 18 UTC	2011-10-13 13:15	2011-10-13 13:15	series	
<input type="checkbox"/>	SMRS16 collection of SYNOP reports available from RUMS (MOSCOW) at 00, 06, 12 and 18 UTC	2011-10-13 13:15	2011-10-13 13:15	series	
<input type="checkbox"/>	SMRS15 collection of SYNOP reports available from RUMS (MOSCOW) at 00, 06, 12 and 18 UTC	2011-10-13 13:15	2011-10-13 13:15	series	
<input type="checkbox"/>	SMRS14 collection of SYNOP reports available from RUMS (MOSCOW) at 00, 06, 12 and 18 UTC	2011-10-13 13:16	2011-10-13 13:16	series	

Перечень пакетов, используемых CliWare

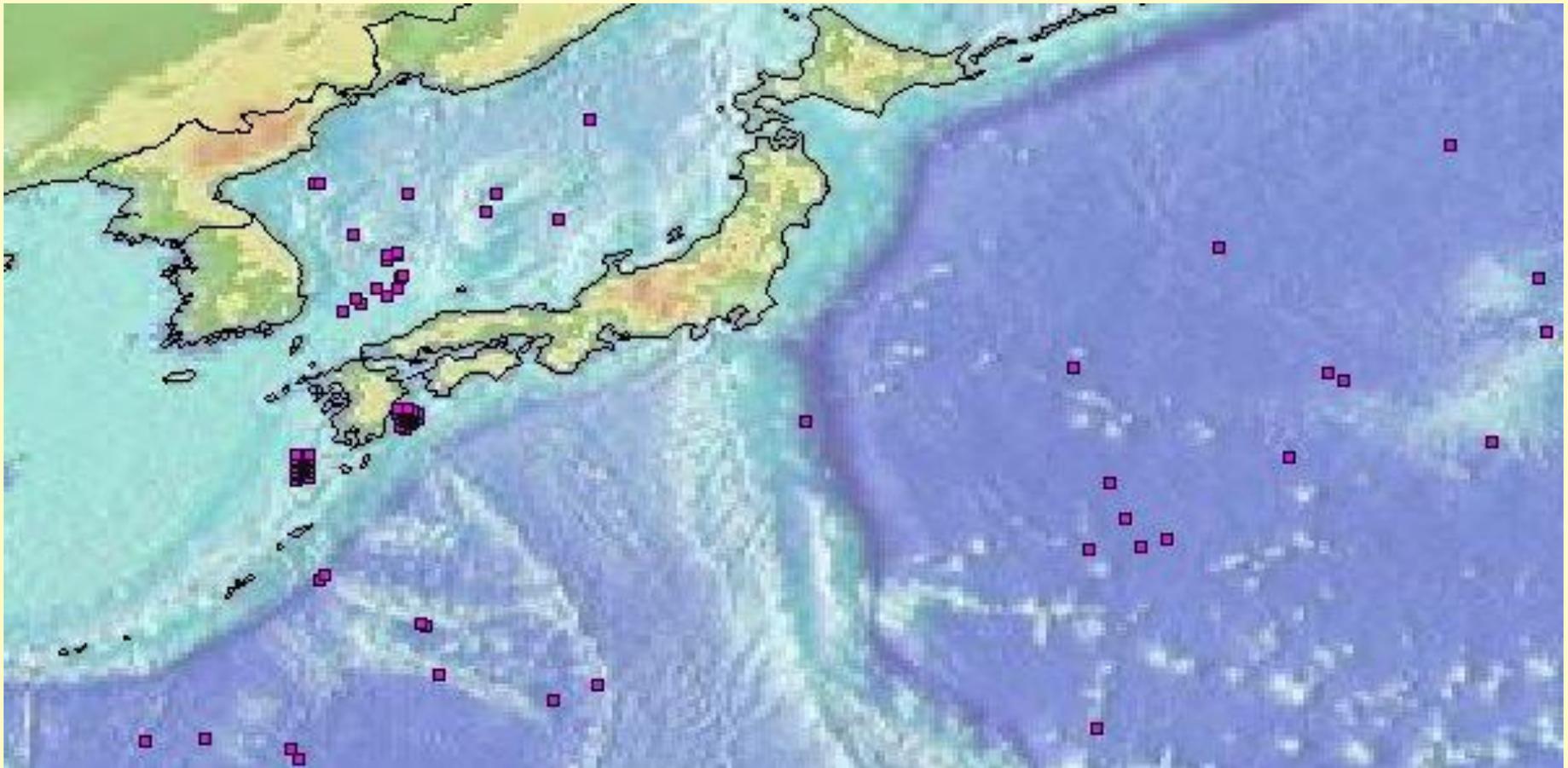
- Deegree (Open Source)
- Geoserver (Open Source)
- GeoNetwork (Open Source)
- Bentley – планируется

Пакет deegree. Сбор данных за сутки



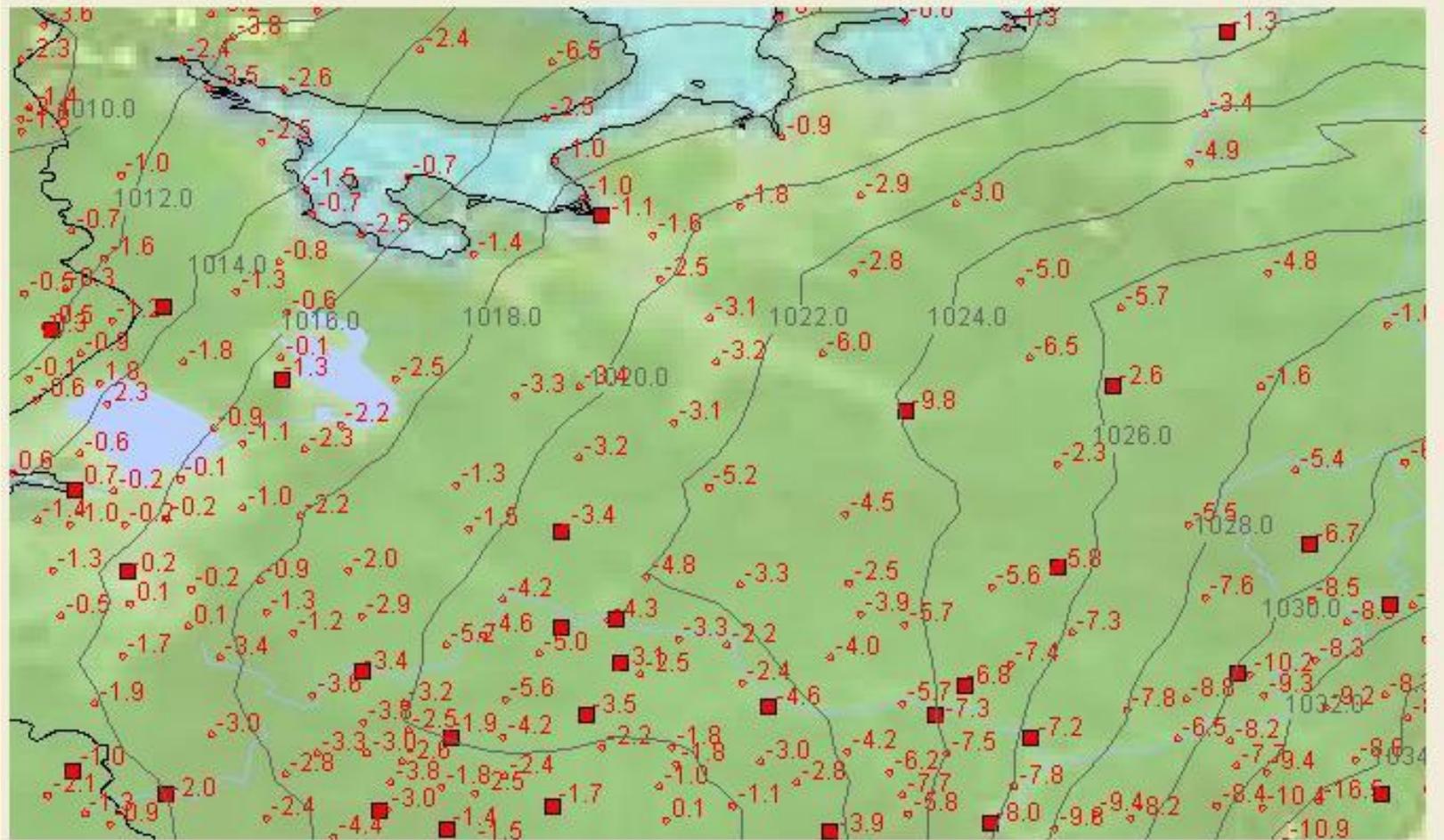
Пакет deegree.

Карта глубоководных наблюдений в Тихом океане



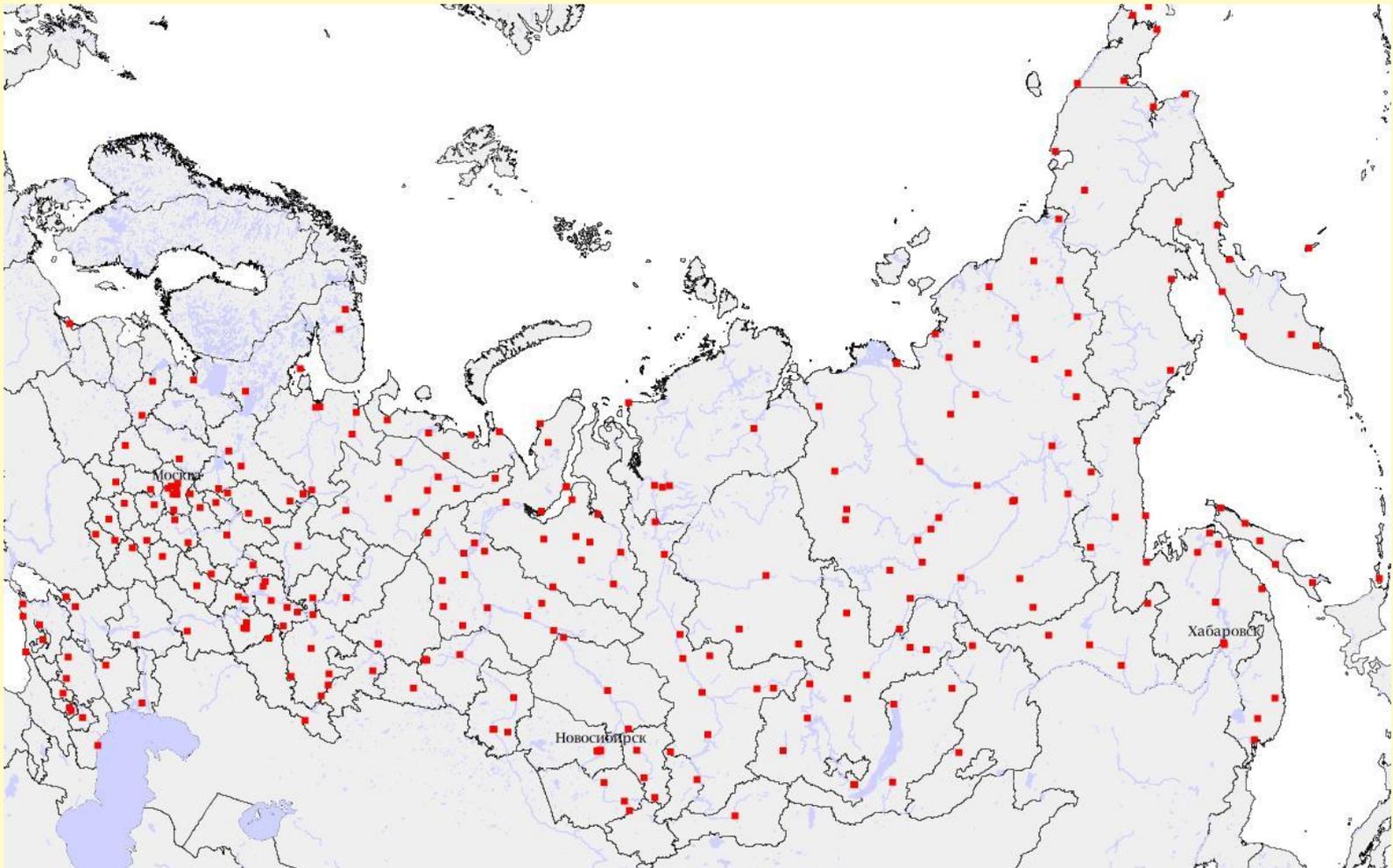
Пакет deegree.

Карта данных наблюдений

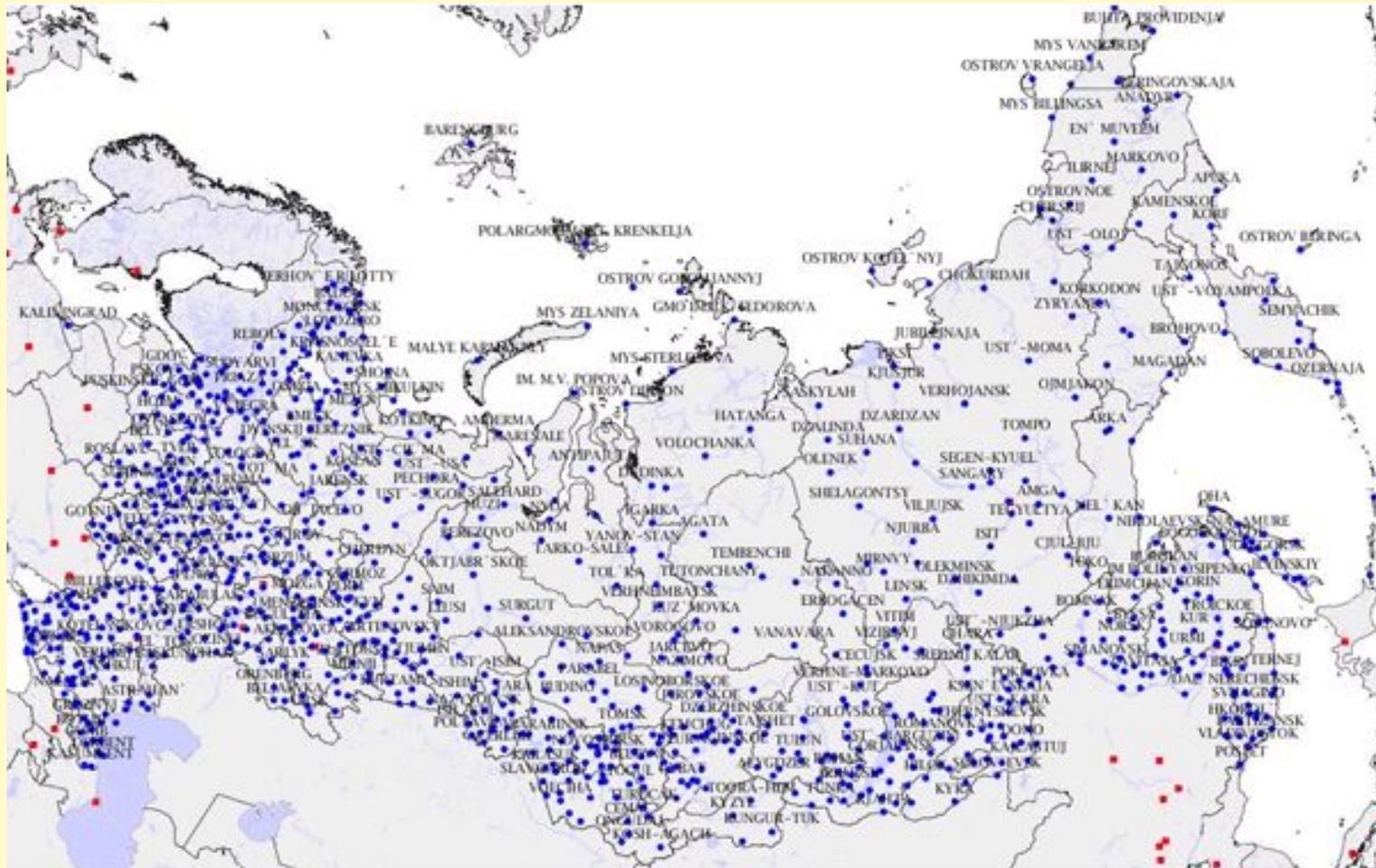


Пакет GeoServer.

Аэропорты РФ. Полярная проекция



Пакет GeoServer. Метеорологические станции. Полярная проекция.



Пакет GeoNetwork. Стандарт CSW.

WIS portal - DCPC Obninsk - Mozilla Firefox

portal.dpcp.meteo.ru/pages/meta_upld.html

WMO Information System (Russian Segment)

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Federal Service and Monitoring for Hydrometeorology Environment

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Datasets
Directories
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Maps & graphics
Other information resources
Photo

GeoRSS

- HHUC92 GRIB bulletin available from RUMS (MOSCOW) at 00 and 12 UTC
- HVSC92 GRIB bulletin available from RUMS (MOSCOW) at 00 and 12 UTC
- HTUG95 GRIB bulletin available from RUMS (MOSCOW) at 00 and 12 UTC
- HUSK25 GRIB bulletin available from RUMS (MOSCOW) at 00 and 12 UTC
- HVTC30 GRIB bulletin available from RUMS

Show map

Sort by relevance

SMRS20 COLLECTION OF SYNOP REPORTS AVAILABLE FROM RUMS (MOSCOW) AT 00, 06, 12 AND 18 UTC

Abstract: ---- The bulletin collects SYNOP reports: FM 12 (SYNOP, Report of surface observation from a fixed land station). (Refer to WMO No.306 - Manual on Codes for the definition of WMO international code...

Keywords: atmospheric conditions, 23226, 23701, 28909

Metadata

Identification info

Title	SMRS20 collection of SYNOP reports available from RUMS (MOSCOW) at 00, 06, 12 and 18 UTC
Date	2007-01-01
Date type	Publication: Date identifies when the resource was issued
Title	WMO Information System (WIS)
Date	WMO Information System (WIS)

Code: urn:x-wmo:bulletin:int.wmo.wis::SMRS20RUMS

Presentation form: **Digital document:** Digital representation of a primarily textual item (can contain illustrations also)

Abstract: ---- The bulletin collects SYNOP reports: FM 12 (SYNOP, Report of surface observation from a fixed land station).

(Refer to WMO No.306 - Manual on Codes for the definition of WMO international codes)

Спасибо за внимание!