

OpenLayers: SOS and INSPIRE

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Contents

— [**Sensor Observation Service client for OpenLayers**

— [**INSPIRE View Service support in OpenLayers**

— [**GEOZET project for the Dutch government**



SOS client

— [Tested against 52 North SOS (excellent e-mail list support!)

— [Uses SOS version 1.0.0

— [Available as of OpenLayers 2.9

— [Needs Proj4js 1.0.1

OpenLayers vectors

— [Previously there was a separate layer for everything, but now we have:

— [**Layer.Vector**

— [**Protocol: how to communicate with the server (WFS, SOS etc.)**

— [**Strategies: how to request data (BBOX, Fixed)**

Building blocks

— [A Format to read the SOS GetCapabilities response

— [A Format to read/write SOS GetFeatureOfInterest responses/
requests

— [A Format to read/write SOS GetObservation responses/
requests (only supports getting latest observations)

Building blocks

— [An SOS protocol that can be used with a vector layer

— [In the future: a convenience SOS Layer?

Code example

— [Check out the OpenLayers example named sos.html

— [GetCapabilities -> GetFeatureOfInterest -> GetObservation

— [SOS client example

SOS caveat

— [We need to do 1 GetObservation request per offering (to get the actual measurement values), this can get quite expensive, but is the consequence of the current SOS specification.

INSPIRE

— [European legislation for an SDI

— [Specifications for:

— [View Service (WMS)

— [Discovery Service (CS-W)

— [Download service (WFS or ZIP file)

INSPIRE

— [Dutch National Geo Registry needs to be INSPIRE compliant

— [INSPIRE View Service uses WMS 1.3.0, OpenLayers only supported WMS 1.1.X

View Service

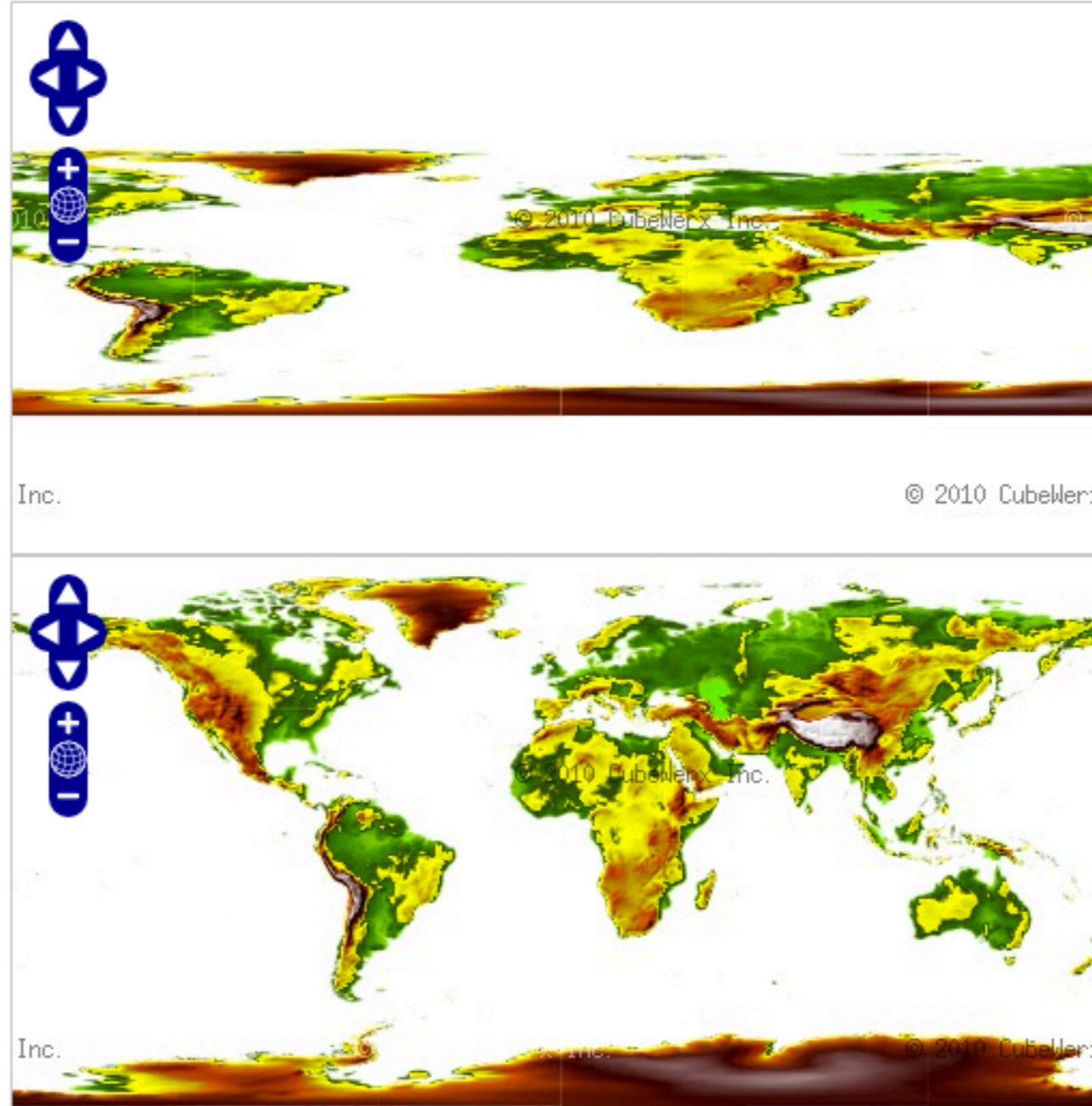
— [Based on OGC:WMS 1.3 (axis order confusion!)

— [Additional changes needed for multi-lingual support: extra parameter LANGUAGE and extra section in GetCapabilities

— [[sandbox/bartvde/inspire](#)

WMS version 1.3 (axis order) Example

Shows an example of the influence of axis order on WMS 1.3 GetMap requests.



Axis order

Axis order

— [The problem: the underlying projection library (Proj4js which is based on Proj.4) does not have a notion of axis order, though it is stored in the EPSG database.

— [We came up with an extra property on `OpenLayers.Layer.WMS` called `yx` which is an object with EPSG codes that need reverse axis order (LatLon instead of LonLat).

WMS 1.3.0 support

— [So as of OpenLayers 2.9 there now is WMS 1.3.0 support for all WMS interfaces: GetCapabilities, GetFeatureInfo and GetMap.

GEOZET project

— [Geographical search and view service, accessibility is a key aspect of the project

— [Pure client-side printing, wide range of browsers

— [Used to publish announcements from local governments on a national level

— [Uses PostGIS, Geoserver, GeoWebCache, OpenLayers and GeoExt

Zoek op locatie

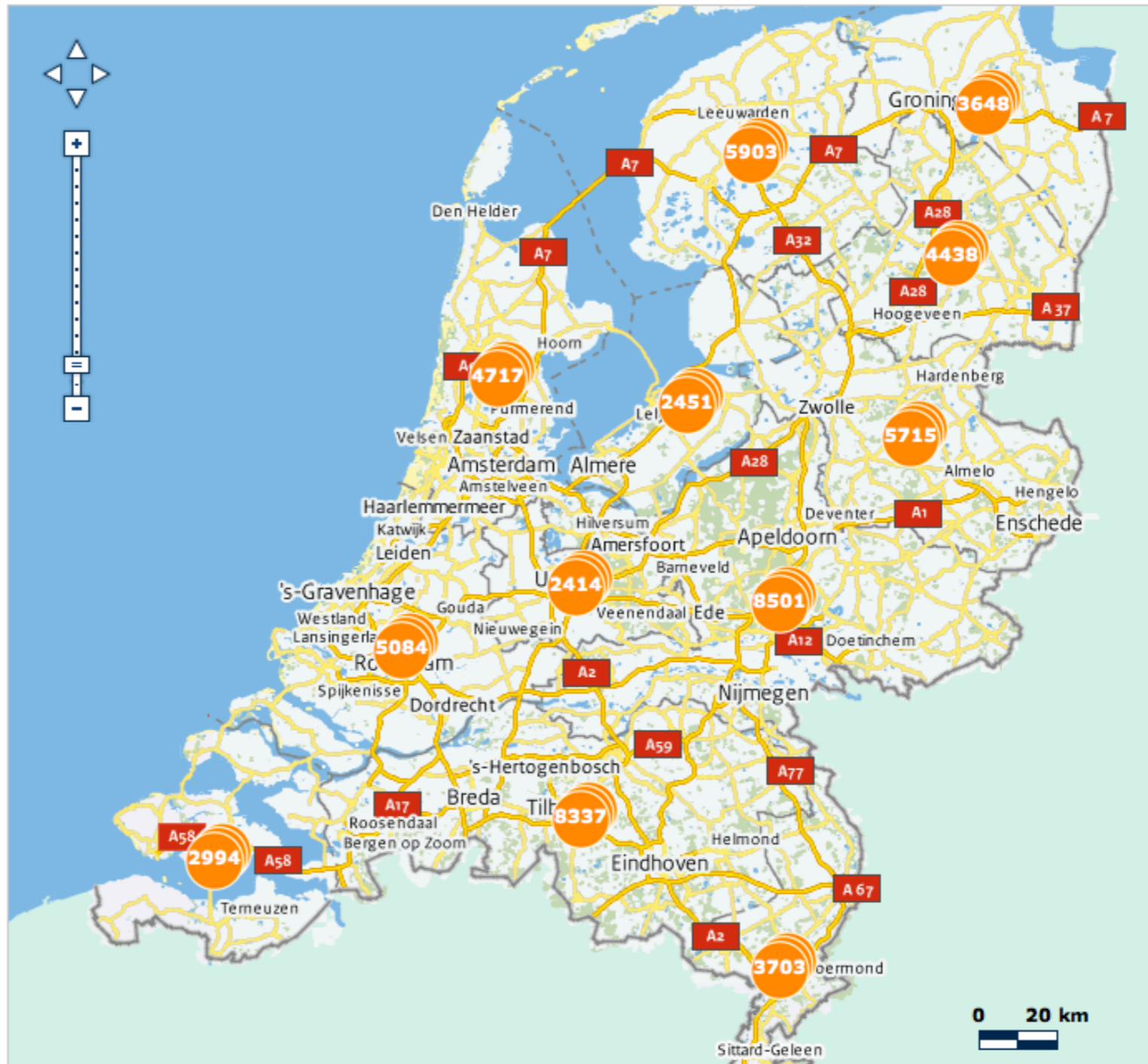


Postcode of plaatsnaam

Zoek locatie >


Onderwerpen ⓘ

- Consumentenzaken
- Maatschappij en samenleving
- Natuur en milieu
- Overheid, politiek en bestuur
- Rechtspraak en veiligheid
- Verkeer, voertuigen en wegen
- Wonen en leefomgeving
- Meerdere bekendmakingen



Clusters

Zoek op locatie




Bedoelde u:

- baarn (gemeente) >
- baarn (plaats) >

Zoek locatie >

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- Consumentenzaken
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2 resultaten

de Savornin Lohmanlaan 15 (14 augustus 2009) - besluit

Bouwvergunning
 Wonen en leefomgeving
 de Savornin Lohmanlaan, BAARN
 22-07-2010

Het geheel oprichten van een erker aan de voorgevel.
<http://www.baarn.nl/index.php?simaction=content&mediumid=1&pagid=1038&stukid=20924>

[gemeente Baarn](#)

1 van 2

Cluster strategy

Project deliverables

— [Created our own Renderer (point data only), which creates anchors with images, based on an attribute in the dataset

— [Created a Sort Strategy so that the TAB key sequence is logical

— [A PanZoomBar as an ExtJS component (uses ZoomSlider)

— [Wished the new `OpenLayers.Strategy.Filter` (thanks tschaub!) had existed before this project was started

GEONOVUM



<http://www.geonovum.nl>

Rijkswaterstaat



Rijkswaterstaat
Ministerie van Verkeer en Waterstaat

<http://www.rijkswaterstaat.nl>

Acknowledgements

Questions?