

# OPeNDAP caching on a local machine

OPeNDAP is a web service for netCDF-CF files. Web services offer you live access without the need to download a local copy, that would only occupy disk space and become outdated. However, for performance issues, having a local up-to-date copy is very useful. This applies even more when you often work in places with low-bandwidth internet connection, or even without wifi, such as public transport. A local copy for temporary use is known as a *cache*. Remove the cache when you do not need it any more.

For many OGC WxS webservices special software exist to make those caches, e.g. [geocache](#), [geowebcache](#). For OPeNDAP servers you can simply download all data files simply with an ftp server. By default an OPeNDAP end-note offers both *OPeNDAP* and *HTTPServer* as a service, the latter is simply an http/ftp download that can be bathces (e.g. [this link](#)). For linux command line batch download can be done with [wget](#) which also has a [dos/windows version](#). For windows [wget](#) is not available, Windows [wget](#) [BITSAdmin](#) (which will be phased out after Windows 7). This example show how to 2 vaklodingen netCDF files. The remote and local path are turned into variables, to facilitate use creation of this batch file using copy-and-paste from the html catalog (e.g. [this link](#)). You can do that with the column mode in many regular text editors, for instance Textpad.

```
rem source using web / slashes
set from=http://opendap.deltares.nl/thredds/fileServer/opendap/rijkswaterstaat/vaklodingen/

rem local destination using windows \ slashes
set into=d:\opendap.deltares.nl\thredds\dodsC\opendap\rijkswaterstaat\vaklodingen\

bitsadmin /transfer Job001 /download /priority normal %from%vaklodingenKB114_4544.nc %into%
vaklodingenKB114_4544.nc
bitsadmin /transfer Job001 /download /priority normal %from%vaklodingenKB115_4544.nc %into%
vaklodingenKB115_4544.nc
bitsadmin /transfer Job001 /download /priority normal %from%vaklodingenKB115_4544.nc %into%
vaklodingenKB116_4544.nc
```

On XP machines Bitadmin needs to be installed seperately, and will end in a different folder, e.g. c:\program Files\Support tools, for which you will need to adapt the bitsadmin bat file lines to

```
"c:\program Files\Support tools" /transfer Job001 /download /priority normal %from%vaklodingenKB115_4544.nc %
into%vaklodingenKB116_4544.nc
```

I myself have a local cache of regularly used datasets in a folder called d:\opendap.deltares.nl\thredds\dodsC\opendap. The directory tree structure is the very same as the base url for OPeNDAP urls on our own OPeNDAP server, such that in my processing scripts I only need to replace `http:` // with `d:` to make script work with a local cache. I configured my local data cache not to be back-up by the institutes automatic back-up scheme, since it is only a cache from web-data after all.