



Strengthening the Scientific Foundation of Water Quality Programs

Project Number: **LIFE08 ENV /CY / 000460**

Deliverable Number: **D1.2 & D4.1**

Deliverable Name: **Data Preparation and Assimilation
Protocols and Geospatial and Tabular Data templates**

Dissemination Level		
PU	Public	X
PP	Restricted to other program participants (including the Commission Services)	
CO	Confidential, only for members of the Consortium (including Commission Services)	

In order to run the BASINS software data based on format protocols should be collected. All the data where requested on a shapefile format.

A shapefile stores non-topological geometry and attribute information for the spatial features in a data set. The geometry for a feature is stored as a shape comprising a set of vector coordinates. Because shapefiles do not have the processing overhead of a topological data structure, they have advantages over other data sources such as faster drawing speed and edit ability. Shapefiles handle single features that overlap or that are non-contiguous. They also typically require less disk space and are easier to read and write. Shapefiles can support point, line, and area features. Area features are represented as closed loop, double-digitized polygons. Attributes are held in a dBASE® format file. Each attribute record has a one-to-one relationship with the associated shape record

Since the public services use the ArcGIS software which handles shapefiles it was easier for the team to acquire them in this format. The Basins software that is used for the project also uses shapefiles. The most important thing is that shapefiles should be on the same coordinate system and should cover the project area.

The Meteorological Service since it uses daily time series the data where requested in a spreadsheet format.

The following data using the assimilation protocols described below where requested from the public services.

Assimilation Protocols

Water Development Department

Data concerning Hydrology and Water Quality

Coordinate System: UTM WGS84 36N

Area: South Western Boundary: (x) 546717.389, (y) 3852525.71

North Eastern boundary: (x) 558698.904, (y) 3866139.003

DEMs: 10m Resolution

Geological Survey Department

Data concerning Geological, Hydrogeological and Soil types

Coordinate System: UTM WGS84 36N

Area: South Western Boundary: (x) 546717.389, (y) 3852525.71

North Eastern boundary: (x) 558698.904, (y) 3866139.003

Department of Lands and Surveys

Coordinate System: UTM WGS84 36N

Area: South Western Boundary: (x) 546717.389, (y) 3852525.71

North Eastern boundary: (x) 558698.904, (y) 3866139.003

DEMs: 10m Resolution

Elevation/Contours: 50m or highest resolution (res.) raster or grid

Topography: Highest resolution

Rivers and streams network: 50

Village (& village regions) : Highest resolution

CORINE Level I,II,III: Highest resolution

Main Roads: Highest resolution

Dirt Roads: Highest resolution

Populated Place Locations: Highest resolution

Urbanized Areas: Highest resolution

Administrative Boundaries: Highest resolution

Department of Agriculture

Coordinate System: UTM WGS84 36N

Area: South Western Boundary: (x) 546717.389, (y) 3852525.71

North Eastern boundary: (x) 558698.904, (y) 3866139.003

DEMs: 10m Resolution

Elevation/Contours: 50m or highest resolution (res.) raster or grid

Topography: Highest resolution

Rivers and streams network: 50

Village (& village regions) : Highest resolution

CORINE Level I,II,III: Highest resolution

Main Roads: Highest resolution

Dirt Roads: Highest resolution

Populated Place Locations: Highest resolution

Urbanized Areas: Highest resolution

Administrative Boundaries: Highest resolution

Meteorological Service

- Meteorological Stations Near Project Area

Daily Values

- Temperature
- Precipitation
- Humidity
- Wind speed
- Solar Radiation
- Evapotranspiration

Cyprus Agricultural Payments Organization

Coordinate System: UTM WGS84 36N

Area: South Western Boundary: (x) 546717.389, (y) 3852525.71

North Eastern boundary: (x) 558698.904, (y) 3866139.003

All available data

All the letters that were sent to the public departments can be found on the CD. The location of the files is Task 1 → Letters

Geospatial and Tabular Data Templates

Exactly the same data were needed in order to place the PRTR (Deliverable 4.2) point sources on a digital layer. All the data were imported from the PRTR website www.prtr.dli.mlsi.gov.cy/prtr/iweb.nsf/WebContentDocsByID/ID-8A1F048B21D91F78C225772100360D4F, although the data had to be imported manually as points. The procedure was as follows:

- Download the 2009 report
- Convert the coordinates from “Decimal degrees” to “UTM, WGS84 36N” Easting and Northing
- Input the coordinates of each PRTR into a digital layer.