Calculation of Nutrient load (N and P) for Europe on the basis of HSMU's

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For these calculations the output of modelled CAPRI data is linked to the European HSMU map.

The results are three maps, one shape file and two rasters :

\EU_nutr.shp

\eu_nit

\eu_pot

The relevant columns in the shape file are:

- NTOTUAAR: applied kg N per hectare from fertilizer and manure (including grazing animals).
- PTOTUAAR: applied kg P (P2O5) per hectare from fertilizer and manure (including grazing animals)

The rasters contain exactly the same data, only for N and P separately. So the value field in the raster eu_pot=PTOTUAAR and the value field in eu_nit=NTOTUAAR.

NTOTUAAR = (NMIN+NMAN)*UAAR

PTOTUAAR = (PMIN+PMAN)*UAAR

NMIN   = Mineral fertilization consumption, N (kg per hectare)

NMAN   = N from Manure (kg per hectare)

PMIN   = Mineral fertilization consumption, (kg per hectare)

PMAN   = P from manure (kg per hectare)

UAAR   = Utilizable agricultural area (share 0-1)

The maps cover EU 27 without larger inland water bodies or built-up areas

Projected Coordinate System: ETRS_1989_LAEA_L52_M10

Projection: Lambert_Azimuthal_Equal_Area

False_Easting: 4321000.00000000

False_Northing: 3210000.00000000

Central_Meridian: 10.00000000

Latitude_Of_Origin: 52.00000000

Linear Unit: Meter

Geographic Coordinate System: GCS_ETRS_1989
Datum: D_ETRS_1989
Prime Meridian: Greenwich
Angular Unit: Degree

EU_NitRaster
Kg per ha

- 0 - 1
- 2
- 3 - 4
- 5 - 10
- 11 - 20
- 21 - 40
- 41 - 80
- 81 - 120
- 121 - 160
- > 160

CAPRI

Kilometers
0   250   500

Projection:Lambert
azimuthal equal area.
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