

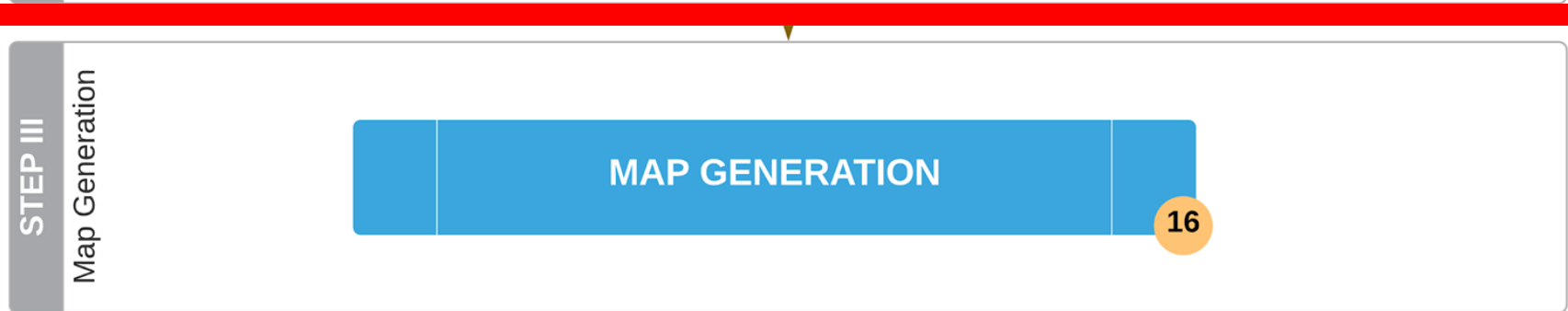
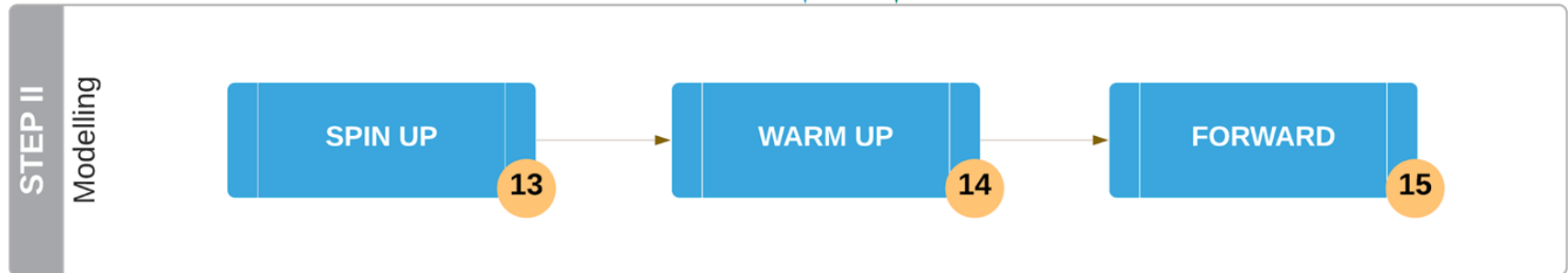
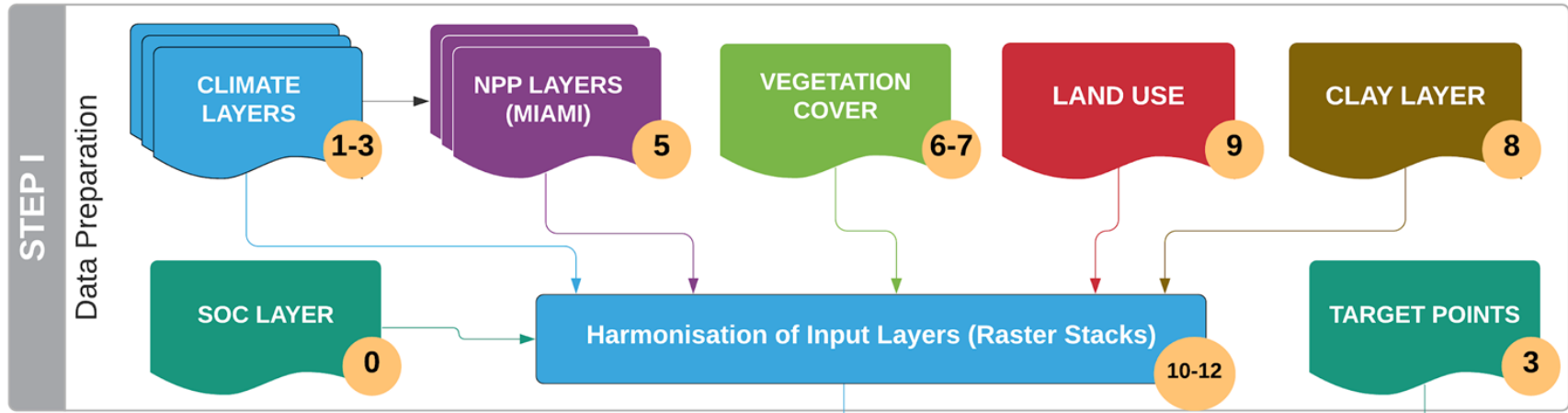


Food and Agriculture
Organization of the
United Nations

Global Soil Organic Carbon Sequestration Potential Map

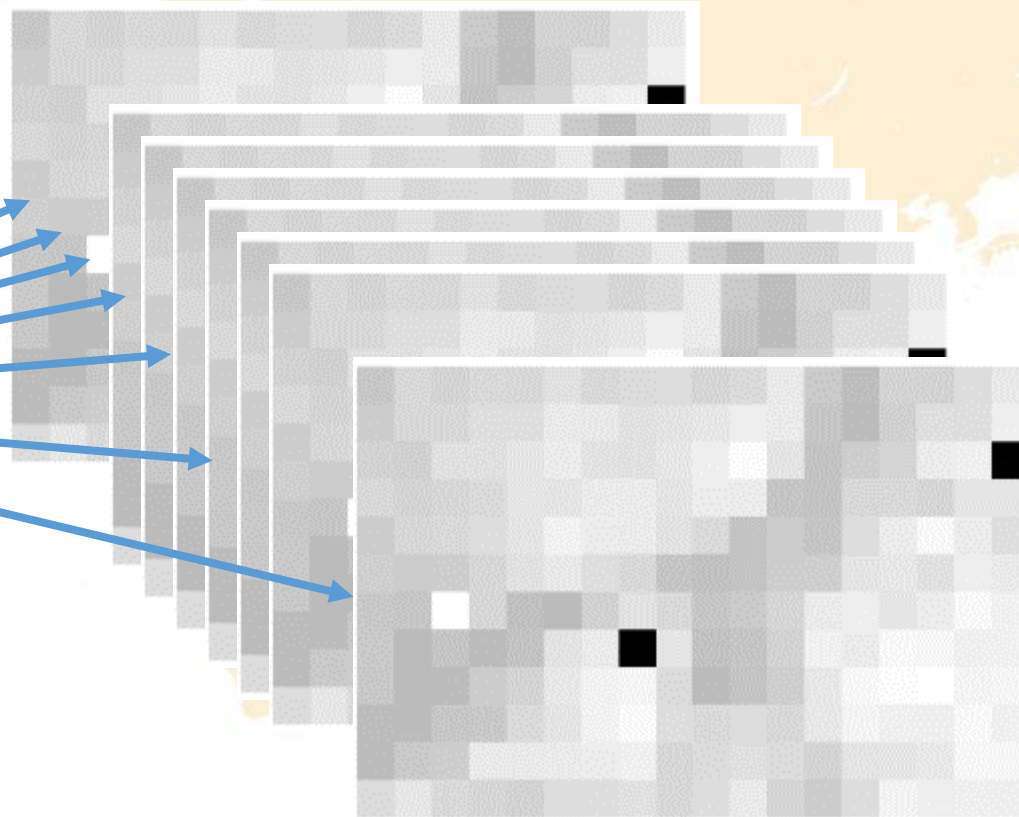
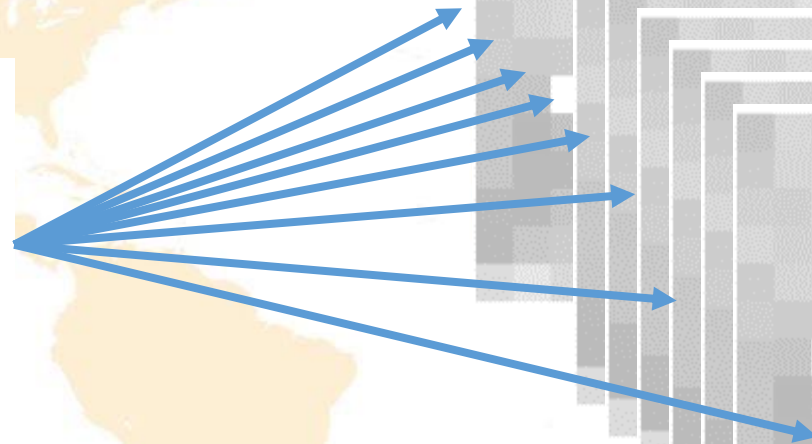
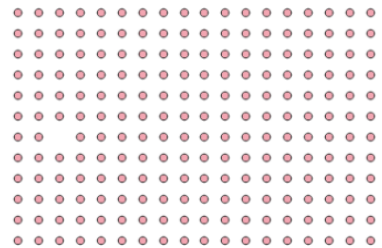
GSOCseq | Exporting the final maps
Isabel Luotto





● Script Number

FROM POINTS TO RASTERS



Global Soil Organic Carbon Sequestration Potential Map GSOCseq



SCRIPT NUMBER 16. POINTS TO RASTER

Inputs:

COUNTRY_POLYGON.SHP (ROI)

FOWARD_BAU_3E_20YEARS_[code country].shp
(from script number 15)

LAYER :

SOC_MAP_[country_code].tif
(from script number 10)

Outputs :

3 raster scenarios (low , médium and high)

1 raster BAU (bussines as usual)

4 absolute rates (Scenario – 2018 SOC)/20

4 absolute differences (Scenario – 2018 SOC)

3 relative rates (Scenario – BAU)/20

3 relative differences (Scenario – BAU)

Uncertainties maps (BAU, SSM, SOC2018, UNC for absolute and relative rates)

From points to rasters

 16_Points_To_Raster.R








Objective:

Modeling runs will generate a 'point' vector file (1 point per pixel) , with data related to SSM and BAU scenarios, and uncertainties (simplified method). This information is saved as a shapefile...





This last step will transform this points to raster file, one for each required map

Products




Final SOC stocks
(tC/ha)
&
Uncertainties
(%)

-  Pergamino_GSOCseq_finalSOC_BAU_Map030.tif
-  Pergamino_GSOCseq_finalSOC_SSM1_Map030.tif
-  Pergamino_GSOCseq_finalSOC_SSM2_Map030.tif
-  Pergamino_GSOCseq_finalSOC_SSM3_Map030.tif
-  Pergamino_GSOCseq_SSM_UncertaintyMap030.tif
-  Pergamino_GSOCseq_T0_Map030.tif
-  Pergamino_GSOCseq_T0_UncertaintyMap030.tif

SOC Absolute differences (SSM 1-3 – T0) In tC/ha

-  Pergamino_GSOCseq_AbsDiff_BAU_Map030.tif
-  Pergamino_GSOCseq_AbsDiff_SSM1_Map030.tif
-  Pergamino_GSOCseq_AbsDiff_SSM2_Map030.tif
-  Pergamino_GSOCseq_AbsDiff_SSM3_Map030.tif




Absolute sequestration rates : Abs. Diff./20 years In tC/ha/year

-  Pergamino_GSOCseq_ASR_BAU_Map030.tif
-  Pergamino_GSOCseq_ASR_BAU_UncertaintyMap030.tif
-  Pergamino_GSOCseq_ASR_SSM1_Map030.tif
-  Pergamino_GSOCseq_ASR_SSM1_UncertaintyMap030.tif
-  Pergamino_GSOCseq_ASR_SSM2_Map030.tif
-  Pergamino_GSOCseq_ASR_SSM2_UncertaintyMap030.tif
-  Pergamino_GSOCseq_ASR_SSM3_Map030.tif
-  Pergamino_GSOCseq_ASR_SSM3_UncertaintyMap030.tif







Global Soil Organic Carbon Sequestration Potential Map GSOCseq



SOC Relative Differences: (SSM1-3 – BAU) In tC/ha

-  Pergamino_GSOCseq_RelDiff_SSM1_Map030.tif
-  Pergamino_GSOCseq_RelDiff_SSM2_Map030.tif
-  Pergamino_GSOCseq_RelDiff_SSM3_Map030.tif

Relative sequestration rates : Rel. Diff./ 20 years In tC/ha/year

-  Pergamino_GSOCseq_RSR_SSM1_Map030.tif
-  Pergamino_GSOCseq_RSR_SSM1_UncertaintyMap030.tif
-  Pergamino_GSOCseq_RSR_SSM2_Map030.tif
-  Pergamino_GSOCseq_RSR_SSM2_UncertaintyMap030.tif
-  Pergamino_GSOCseq_RSR_SSM3_Map030.tif
-  Pergamino_GSOCseq_RSR_SSM3_UncertaintyMap030.tif

Global Soil Organic Carbon Sequestration Potential Map GSOCseq

