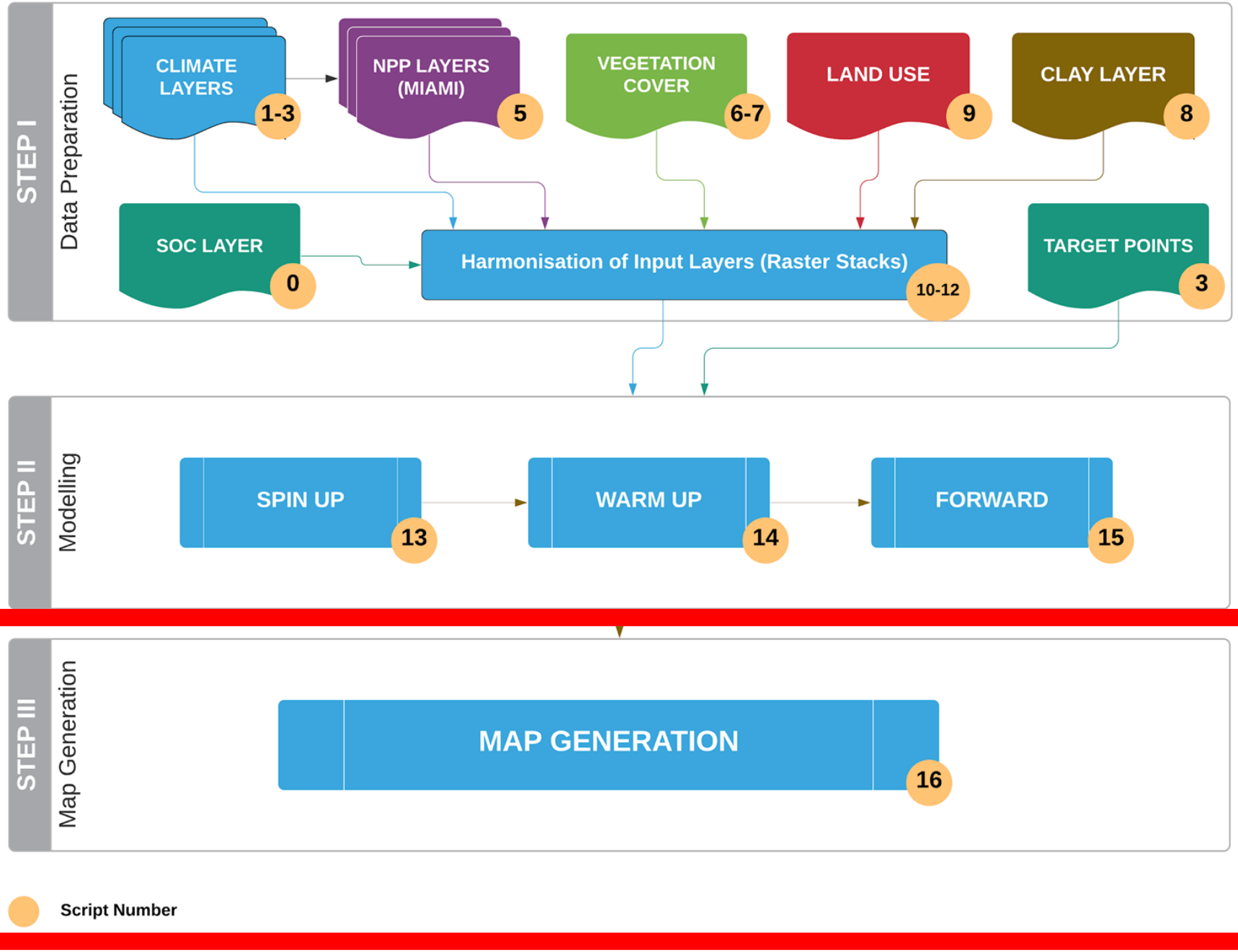
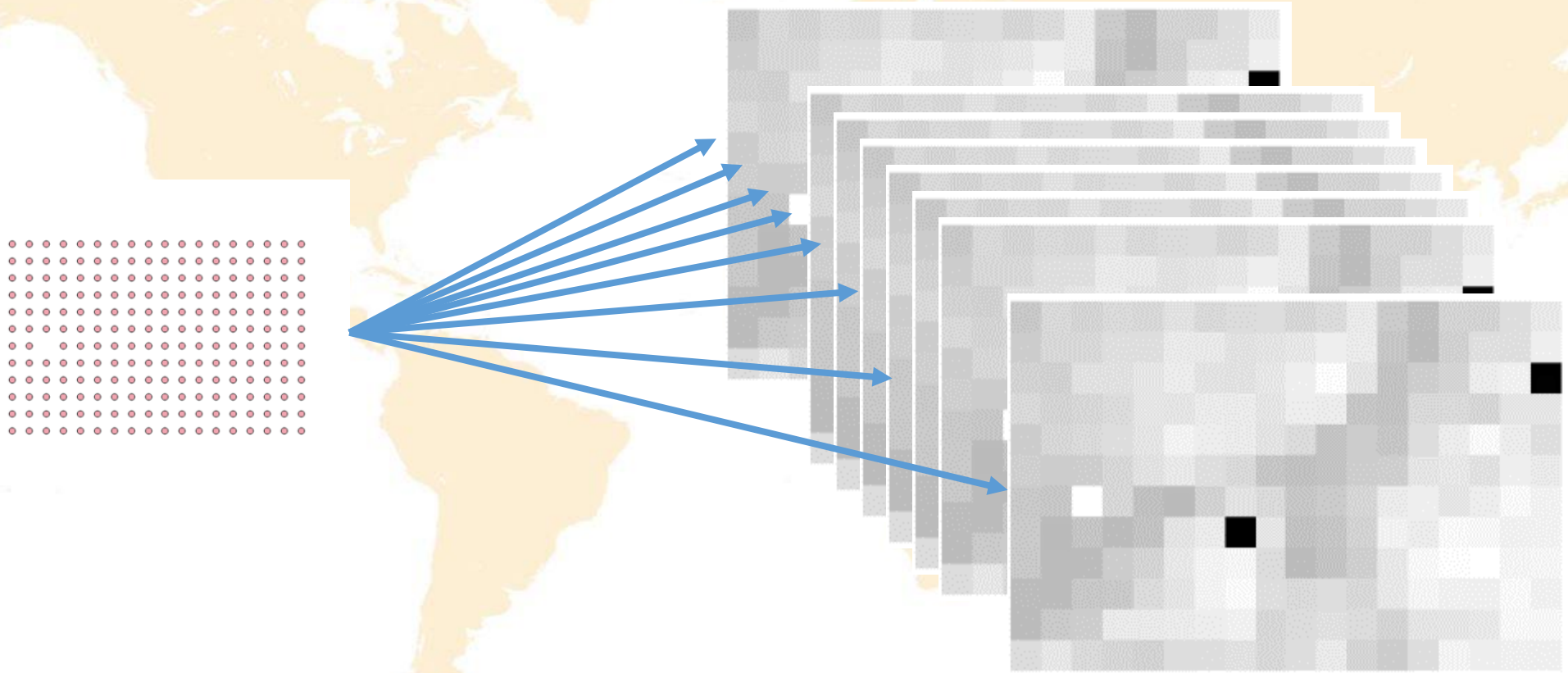
Food and Agriculture
Organization of the
United Nations
Global
Soil Organic Carbon
Sequestration Potential Map
GSOCseq | Exporting the final maps
Isabel Luotto
GLOBAL SOIL
PARTNERSHIP



Global Soil Or

GLOBAL SOIL PARTNERSHIP

FROM POINTS TO RASTERS



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)

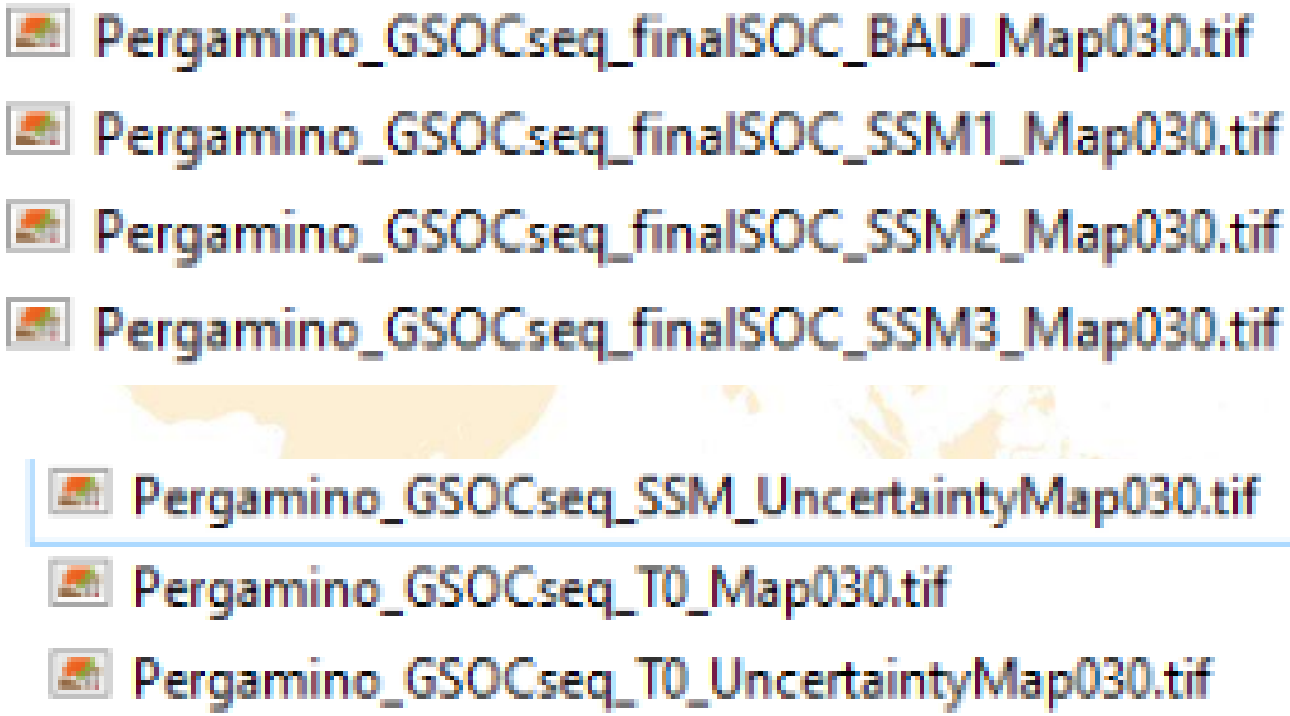
From points to rasters

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

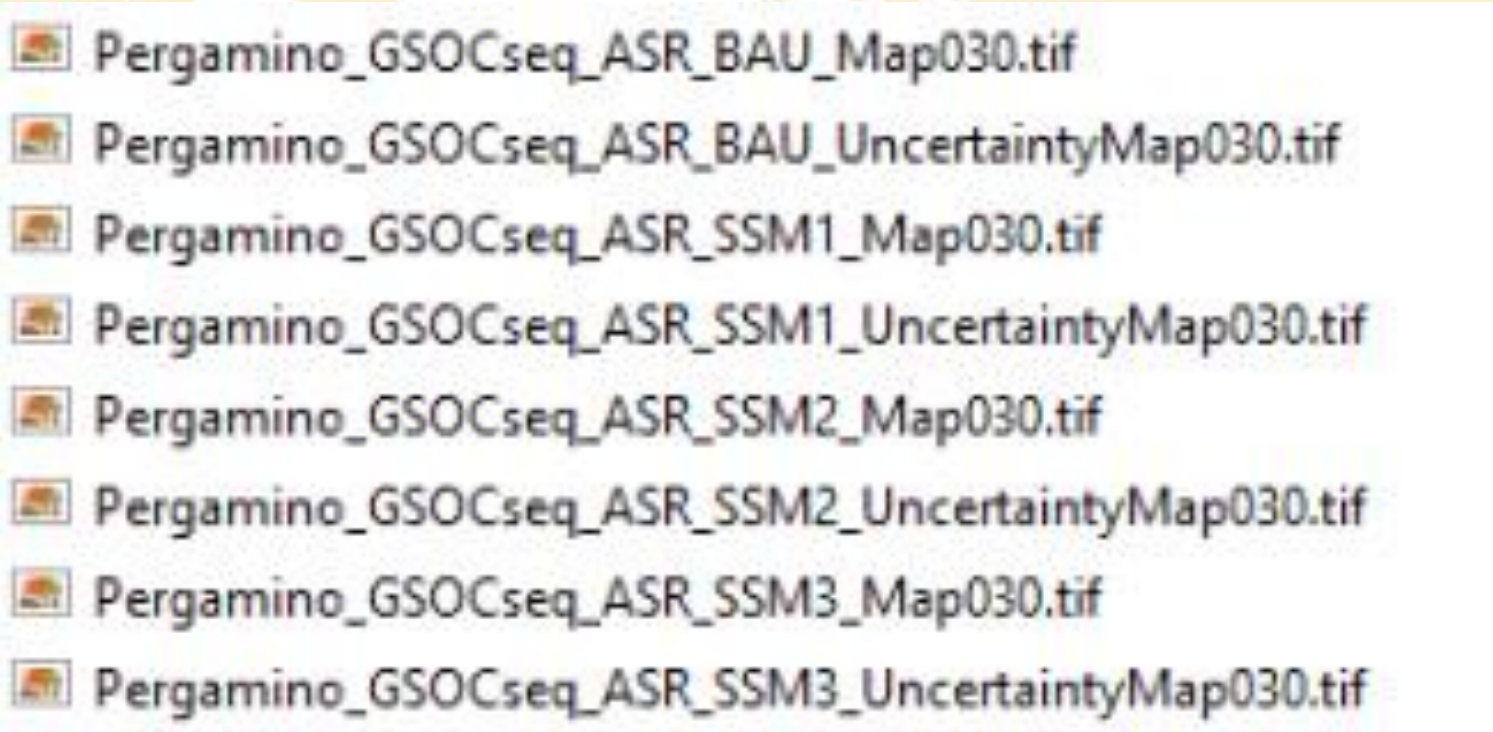
Final SOC stocks (tC/ha)
&
Uncertainties (%)



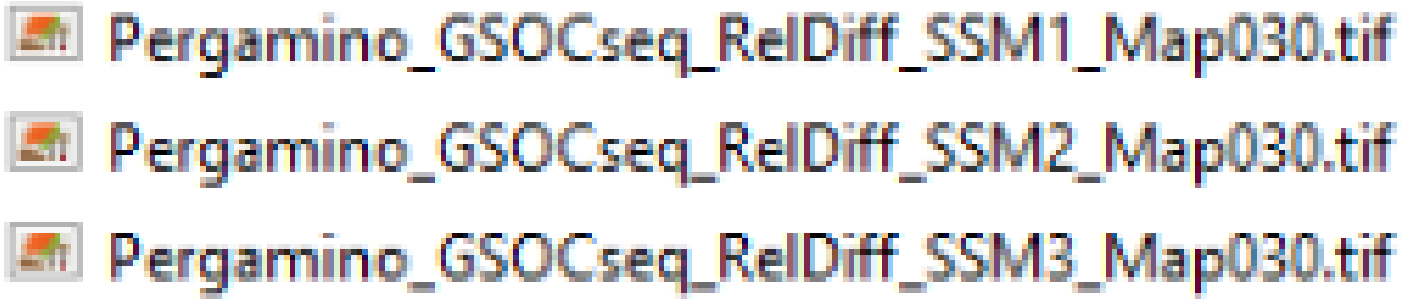
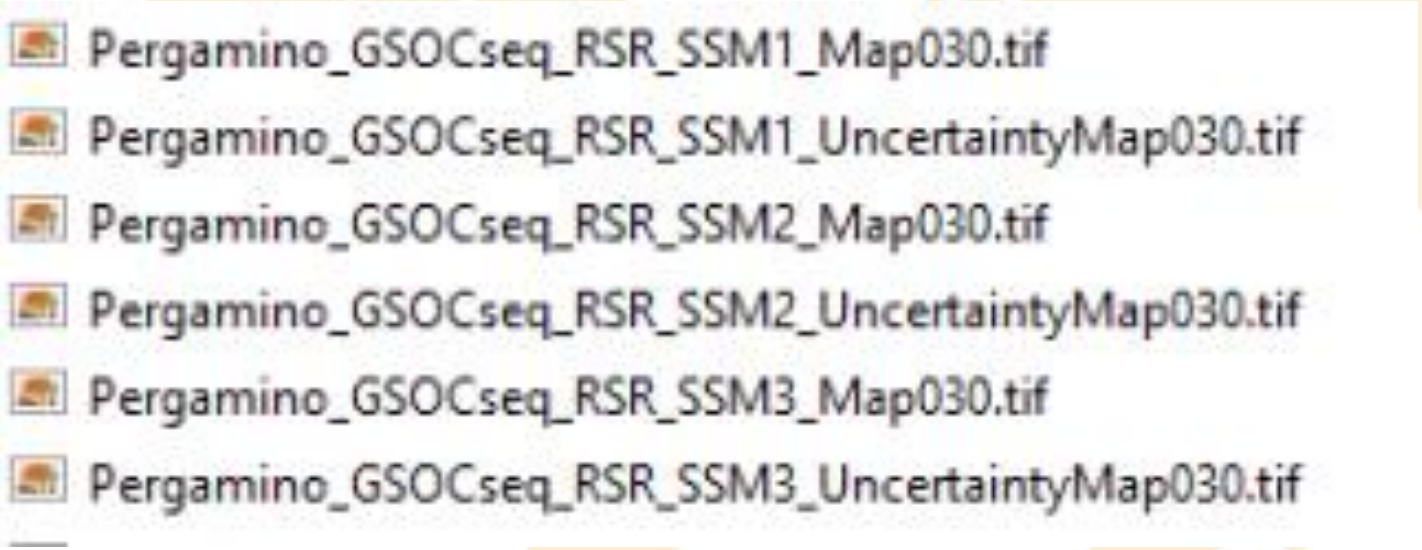
SOC Absolute differences (SSM 1-3 – T0) In tC/ha

- 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



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



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