

## **METADATA for PrimeScale model output data**

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Model output data includes following multi band GeoTIFF files:

- RPE\_ratio.tif
- RPE\_induced\_SOC\_loss\_no\_CN.tif
- RPE\_induced\_SOC\_loss\_with\_CN.tif

And associated uncertainty estimates

- CV\_RPE\_ratio.tif
- CV\_RPE\_induced\_SOC\_loss\_no\_CN.tif
- CV\_RPE\_induced\_SOC\_loss\_with\_CN.tif

All have following spatial information:

class: GeoTIFF  
dimensions: 1823, 1916, 3492868, 3 (nrow, ncol, ncell, nlayers)  
resolution: 5000 m, 5000 m (x, y)  
extent: -4752178, 4827822, -5148690, 3966310 (xmin, xmax, ymin, ymax)  
projection: NSIDC EASE-Grid North (EPSG:3408)  
crs: +proj=laea +lat\_0=90 +lon\_0=0 +x\_0=0 +y\_0=0 +a=6371228  
+b=6371228+units=m +no\_defs  
3rd layer: 1: present  
2: RCP4.5 for 2100  
3: RCP8.5 for 2100

RPE\_ratio:

- unit: -
- Rhizosphere priming ratio.

RPE\_induced\_SOC\_loss\_no\_CN:

- unit:  $10^6 \text{ g C km}^{-2} \text{ yr}^{-1}$
- Rhizosphere priming induced soil organic carbon (SOC) loss over a year, without C/N threshold

RPE\_induced\_SOC\_loss\_with\_CN:

- unit:  $10^6 \text{ g C km}^{-2} \text{ yr}^{-1}$
- Rhizosphere priming induced soil organic carbon (SOC) loss over a year, with C/N threshold

CV\_\*:

- coefficient of variation (CV) for each above listed output parameter