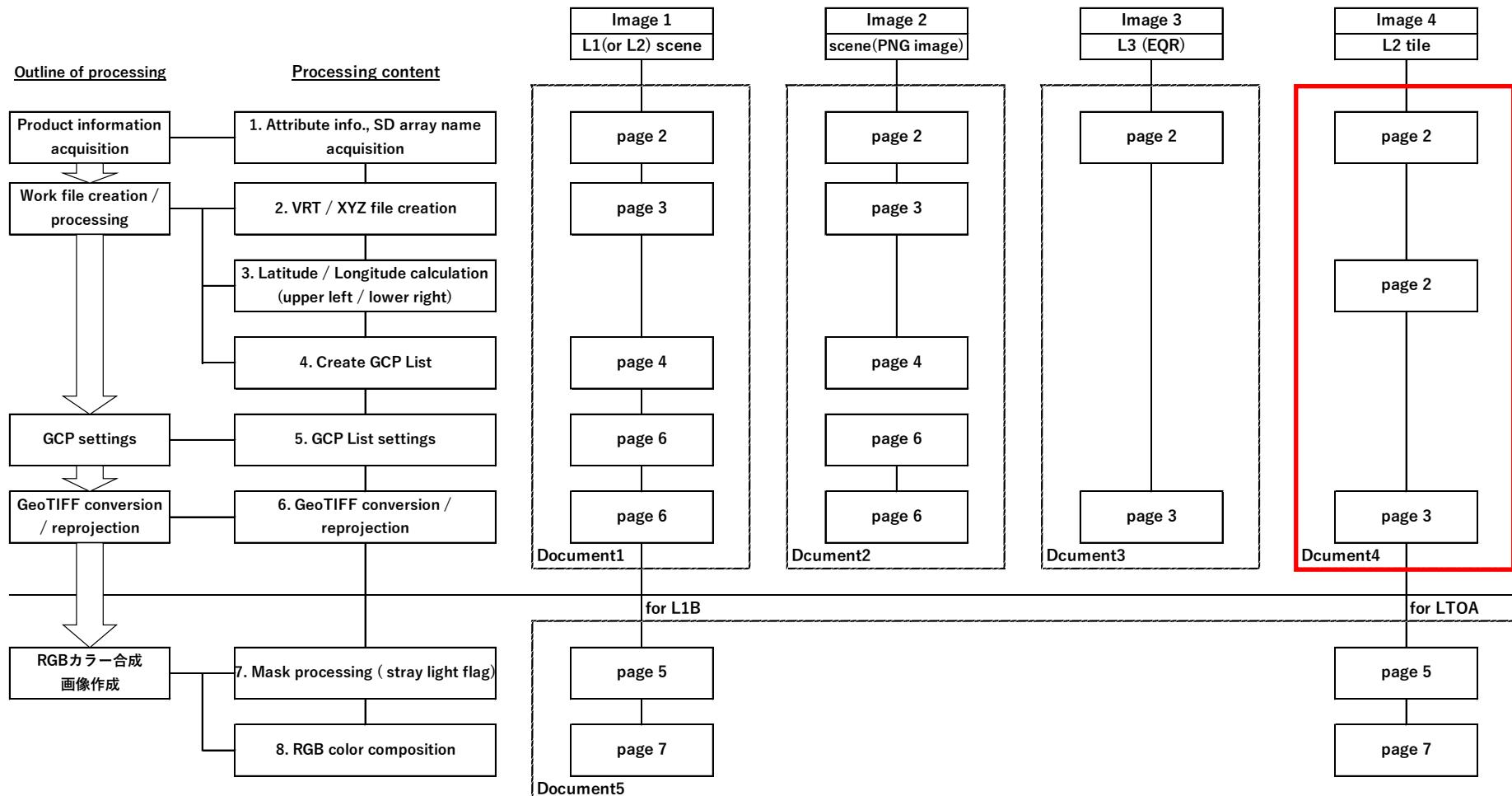


【Image 4】 Conversion of L2 EVI (Enhanced Vegetation Index) (Equal Area Coordinate (EQA))

Here is an example of GeoTIFF conversion of L2 tile images.

GeoTIFF conversion flow



【Image 4】 Conversion of L2 EVI (Enhanced Vegetation Index) (Equal Area Coordinate (EQA))

Product information acquisition

1) SD array name acquisition

The following is an example using OSGeo4W Shell which is installed when QGIS is installed on Windows.

Go to the directory where the image data is saved and enter the file name after the gdalinfo command as shown below to get the SD array name.

On Linux, it can be used in terminal applications, but GDAL must be installed.

```
C:\$Users\$ \$Documents\$Data>gdalinfo GC1SG1_20201101D01M_T1131_L2SG_EVI_Q_2000.h5
```

Tile No.: vvhh Image file name

Use the information in the red frame of SUBDATASET_1_NAME at the bottom of the displayed information.

```
Subdatasets:  
SUBDATASET_1_NAME=HDF5:'GC1SG1_20201101D01M_T1131_L2SG_EVI_Q_2000.h5'://Image_data/EVI_AVE  
SUBDATASET_1_DESC=[4800x4800] //Image_data/EVI_AVE (16-bit unsigned integer)  
SUBDATASET_2_NAME=HDF5:'GC1SG1_20201101D01M_T1131_L2SG_EVI_Q_2000.h5'://Image_data/EVI_Date  
SUBDATASET_2_DESC=[4800x4800] //Image_data/EVI_Date (8-bit unsigned character)
```

Work file creation / processing

2) Latitude / longitude calculation (upper left / lower right)

The upper left / lower right coordinates of the image data set by the Gdal_translate command are calculated from the tile number (vvhh).

The tile number can be found by the file name.

It can be calculated with the attached "GCP calculation sheet for GDAL conversion of L2 tile products".

【Image 4】 Conversion of L2 EVI (Enhanced Vegetation Index) (Equal Area Coordinate (EQA))

GeoTIFF conversion / reprojection

3) GeoTIFF conversion / reprojection

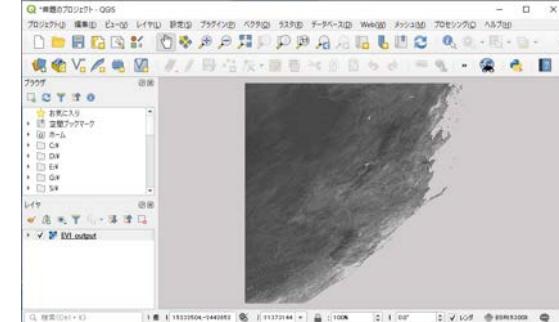
Use the gdal_translate command to enter the latitude / longitude information obtained in 2) and execute it.

Output file format	Input file reference coordinate system	Upper left and lower right coordinate values of the input file
C:\Users\...\Documents\gtiff -a_srs ESRI:50008 -a_ullr 14455356.756965 -2223901.039533 15567307.276731 -3335351.559300 -a_nodata 65535 HDF5:"GC1SG1_20201T01D01M_T1131_L2SG_EVI_Q_2000.h5"://Image_data/EVI_AVE EVI_output.tif		
Set Nodata	Information of "SUBDATASET_1_NAME" acquired by gdalinfo	Output file name

When it ends normally, it will be as follows.

```
OSGeo4W Shell
Input file size is 4800, 4800
0...10...20...30...40...50...60...70...80...90...100 - done.
```

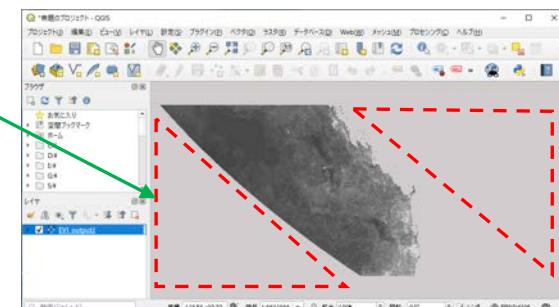
< Output file display example 1 in QGIS >



If necessary, use the gdalwarp command to reproject to EPSG: 4326.

Output file format	output file reference coordinate system	Margins due to projection (nodata)
C:\Users\...\Documents\gtiff -of GTiff -t_srs EPSG:4326 -dstnodata 65535 EVI_output.tif EVI_output2.tif		
Input file name	Output file name	

< Output file display example 2 in QGIS >



When it ends normally, it will be as follows.

```
OSGeo4W Shell
Creating output file that is 6239P x 2676L.
Processing EVI_output.tif [1/1] : 0...10...20...30...40...50...60...70...80...90...100 - done.
```