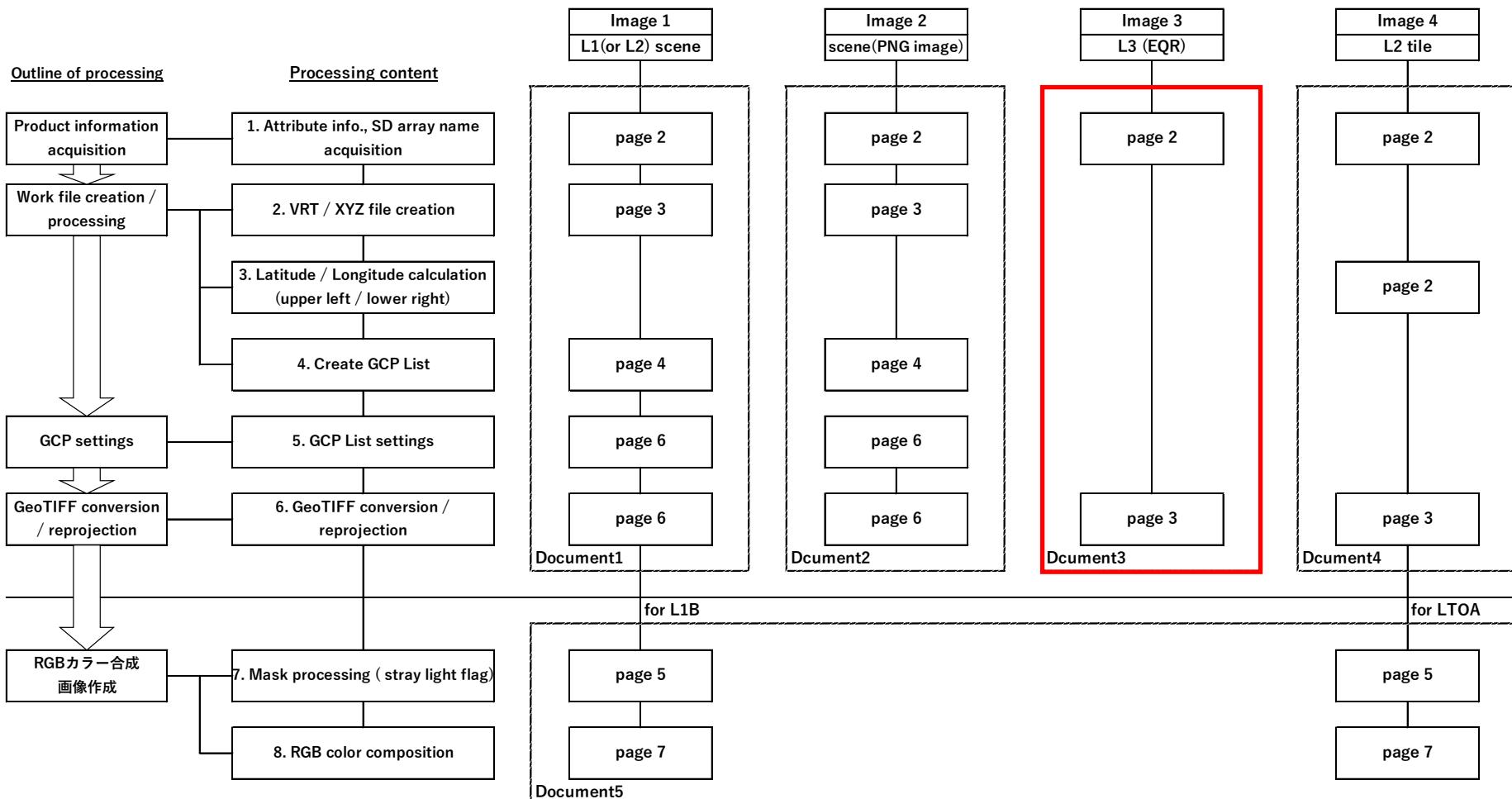


## 【Image 3】 Conversion of L3 NDVI (Normalized Difference Vegetation Index) (Equal Lat/Lon Coordinate (EQR))

Here is an example of GeoTIFF conversion of L3 images.

### GeoTIFF conversion flow



## 【Image 3】 Conversion of L3 NDVI (Normalized Difference Vegetation Index) (Equal Lat/Lon Coordinate (EQR))

### 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.



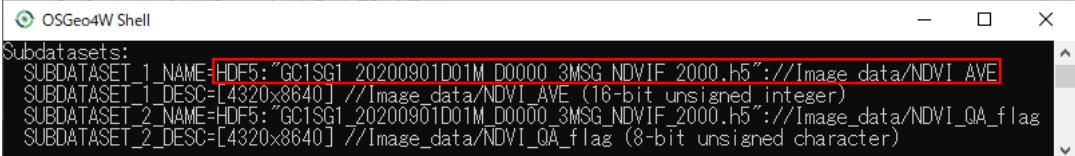
A screenshot of the OSGeo4W Shell window. The command entered is "gdalinfo GC1SG1\_20200901D01M\_D0000\_3MSG\_NDVI\_F\_2000.h5". A red arrow points from the text "Image file name" to the end of the file name in the command line.

OSGeo4W Shell

```
C:\$Users\$ \$Documents\$Data>gdalinfo GC1SG1_20200901D01M_D0000_3MSG_NDVI_F_2000.h5
```

Image file name

Use the information in the red frame of SUBDATASET\_1\_NAME at the bottom of the displayed information.



A screenshot of the OSGeo4W Shell window showing the output of the gdalinfo command. The output includes information about subdatasets:

```
Subdatasets:
SUBDATASET_1_NAME=HDF5:"GC1SG1_20200901D01M_D0000_3MSG_NDVI_F_2000.h5"://Image_data/NDVI_AVE
SUBDATASET_1_DESC=[4320x8640] //Image_data/NDVI_AVE (16-bit unsigned integer)
SUBDATASET_2_NAME=HDF5:"GC1SG1_20200901D01M_D0000_3MSG_NDVI_F_2000.h5"://Image_data/NDVI_QA_flag
SUBDATASET_2_DESC=[4320x8640] //Image_data/NDVI_QA_flag (8-bit unsigned character)
```

The line "SUBDATASET\_1\_NAME=HDF5:" is highlighted with a red box.

# 【Image 3】 Conversion of L3 NDVI (Normalized Difference Vegetation Index) (Equal Lat/Lon Coordinate (EQR))

## GeoTIFF conversion / reprojection

### 2 ) GeoTIFF conversion

Use the gdal\_translate command to enter latitude / longitude information, etc. as shown below and execute.

```
OSGeo4W Shell
C:\Users\...\Documents\Data>gdal_translate -of GTiff -a_srs EPSG:4326 -a_ullr -180 90 180 -90
HDF5:"GC1SG1_20200901D01M_D0000_3MSG_NDVI_F_2000.h5"://Image_data/NDVI_AVE NDVI_output.tif
```

Output file format  
Input file reference coordinate system  
Upper left (-180 deg., 90 deg.), lower right (180 deg., -90 deg.)  
coordinates of the input file  
The L3 (EQR) image is fixed.

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 8640, 4320
0...10...20...30...40...50...60...70...80...90...100 - done.
```

< Output file display example in QGIS >

