Future Improvements

- ## Multi-detector arrangement: area 1km overlap
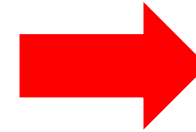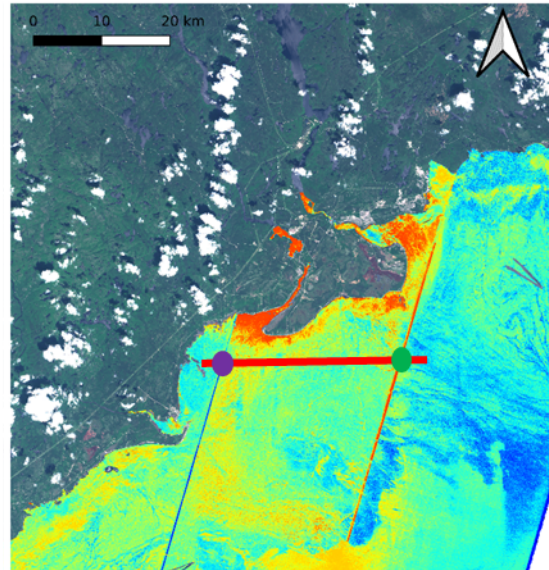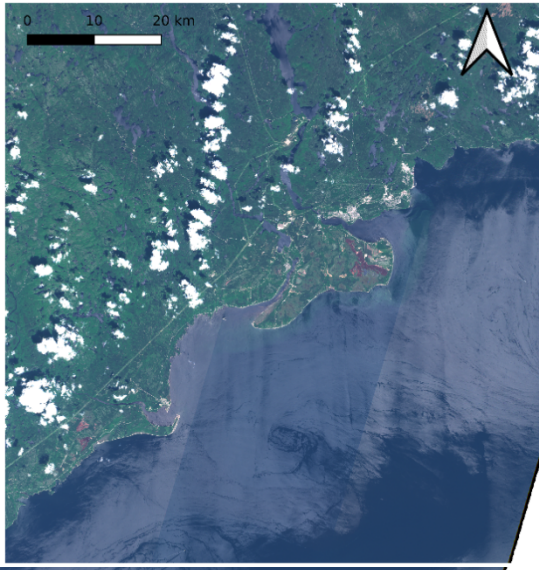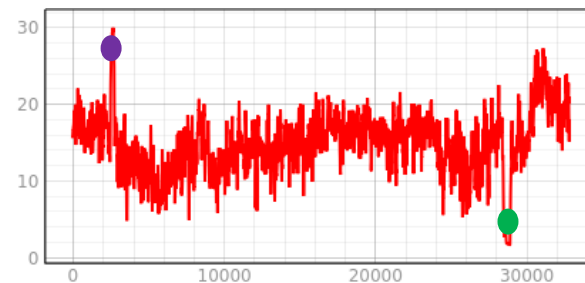


Manually masking
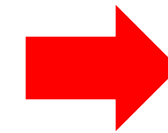of the area

↓
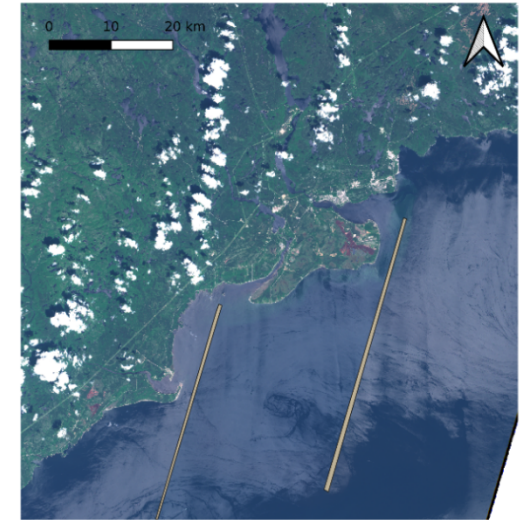
Area not processed

- Clouds, cloud shadows and water artifacts
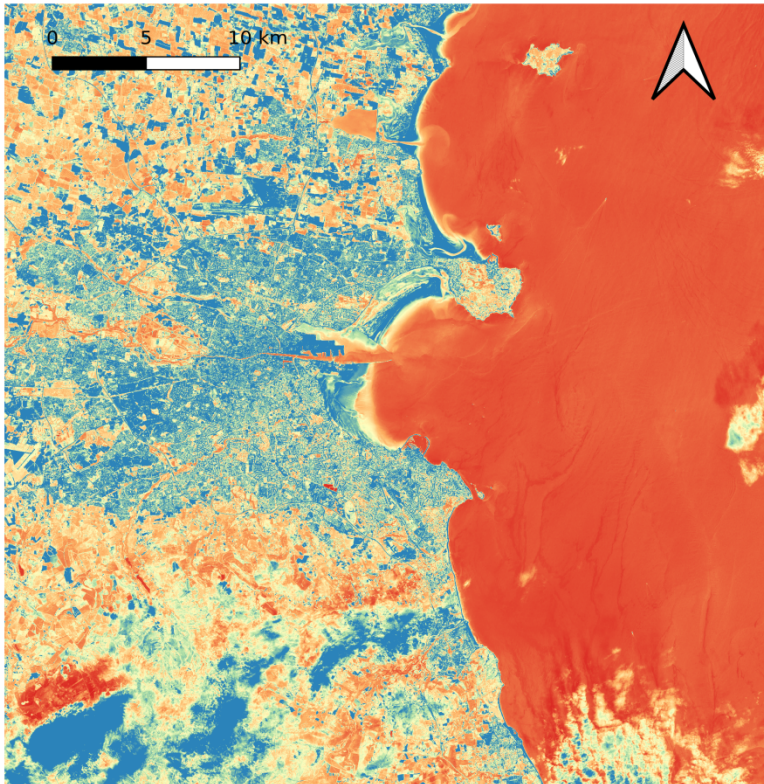


Manually masking of the area

↓

Area not processed

Automatic cloud/cloud shadow/water artifacts detection (ARGANS: SEOM Project, published under Ngoc et al., 2019)
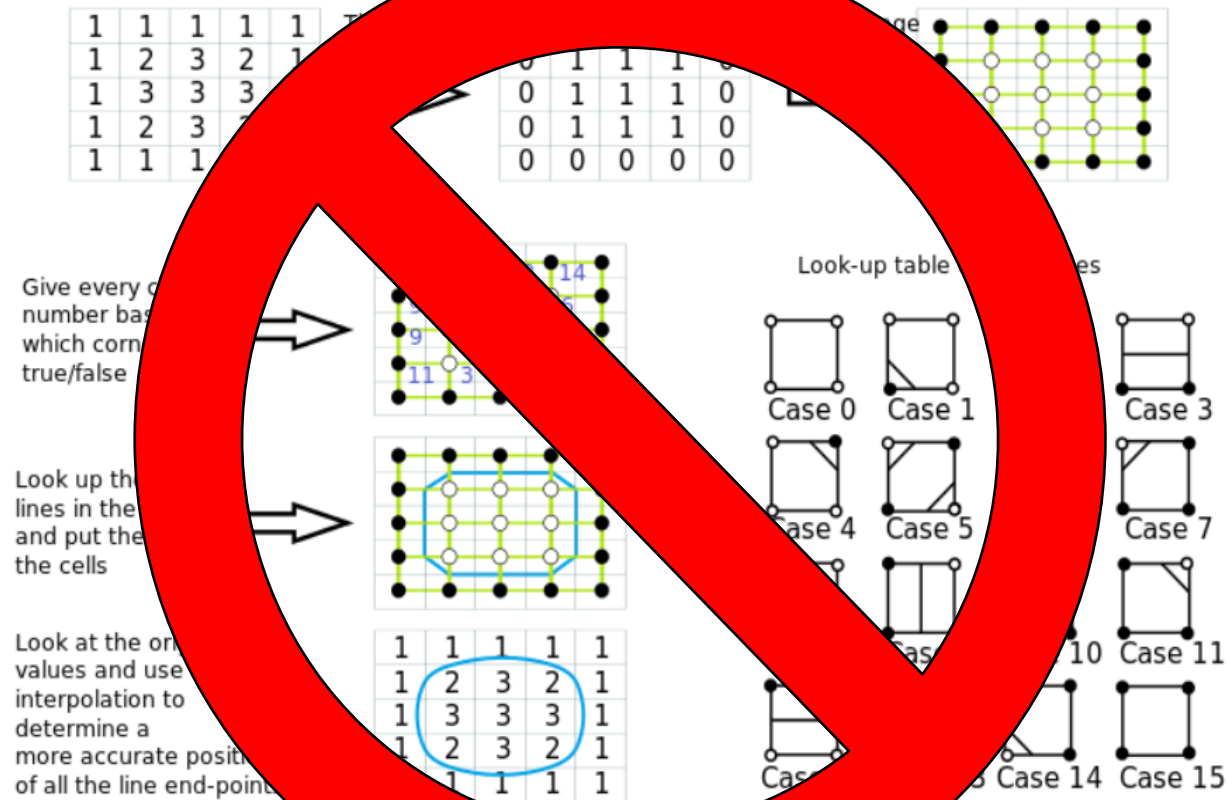
- Image processing: Atmospheric Correction


Band 4

New AC software chains, such **Sen2Cor** on land and **MeetC2** on open waters :
**interpolation** between them for coastal areas
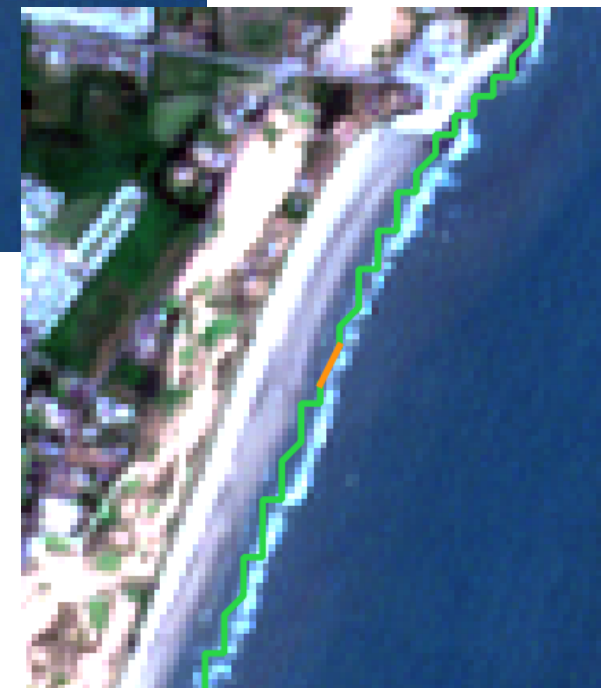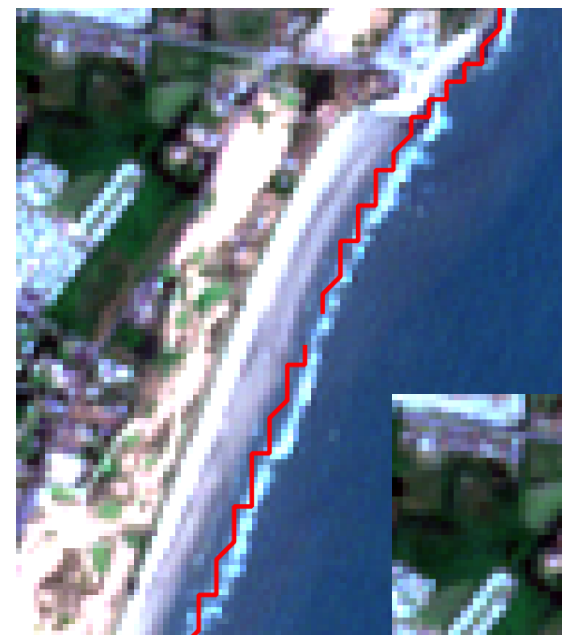
- Resolution of "jigsaw" pattern

- # Resolution of "jigsaw" pattern

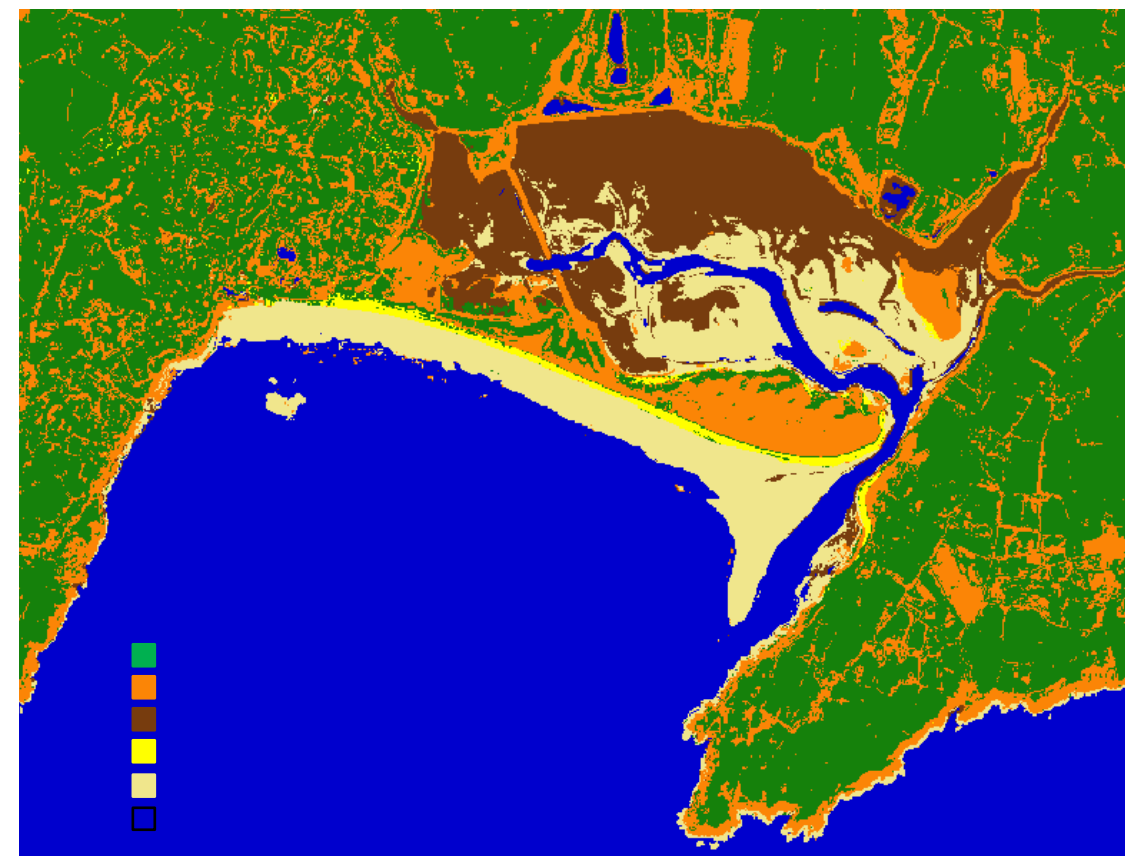| WV3 bands | | S2 bands |
|---|---|---|
| 1 | 400-452 nm (Coastal B) | 1 |
| 2 | 448-510 nm (Blue) | 2 |
| 3 | 518-586 nm(Green) | 3 |
| 4 | 590-630 nm (Yellow) | |
| 5 | 632-692 nm(Red) | 4 |
| 6 | 702-746 nm(Red-Edge) | 5/6 |
| 7 | 772-890 nm(NIR 1) | 8 |
| 8 | 866-954 nm(NIR 2) | 8A |
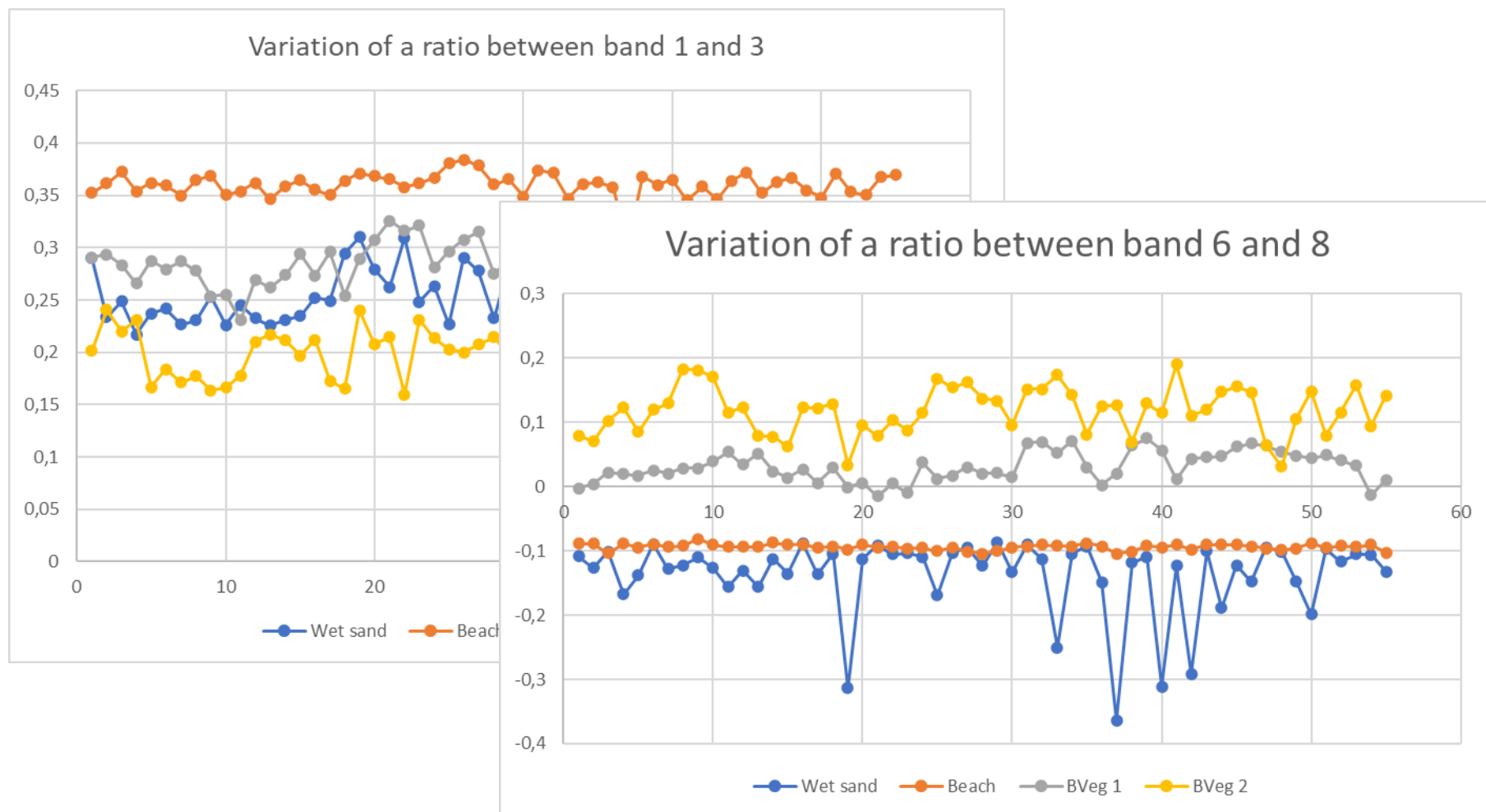
- ## Resolution of gaps in waterline
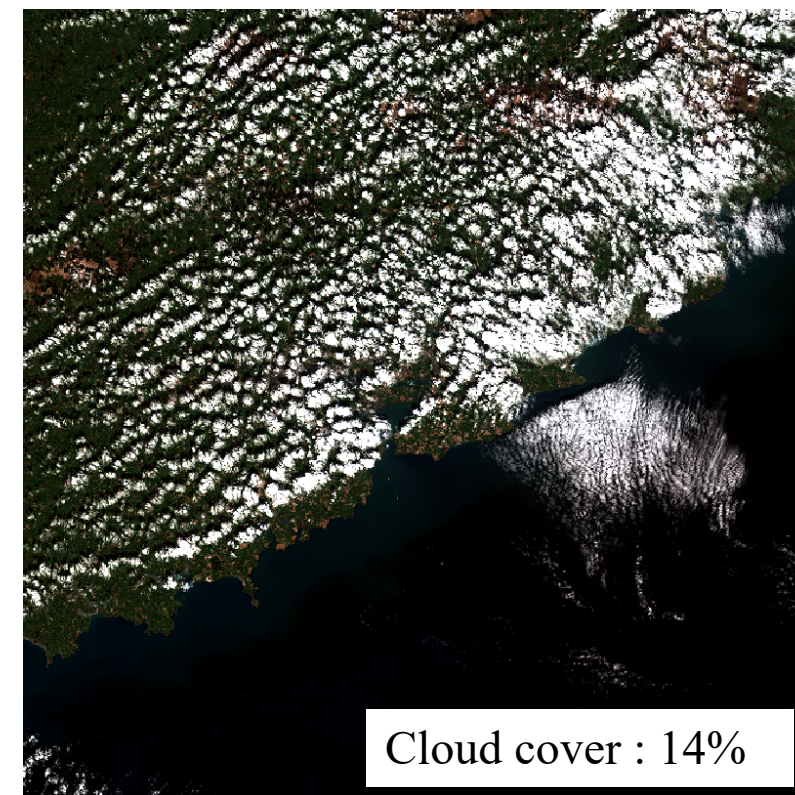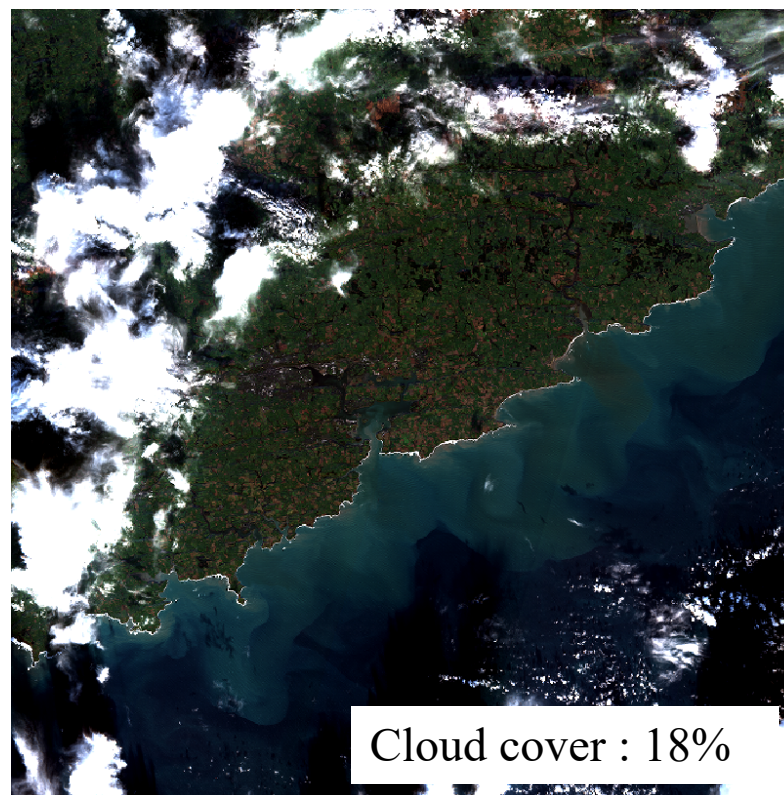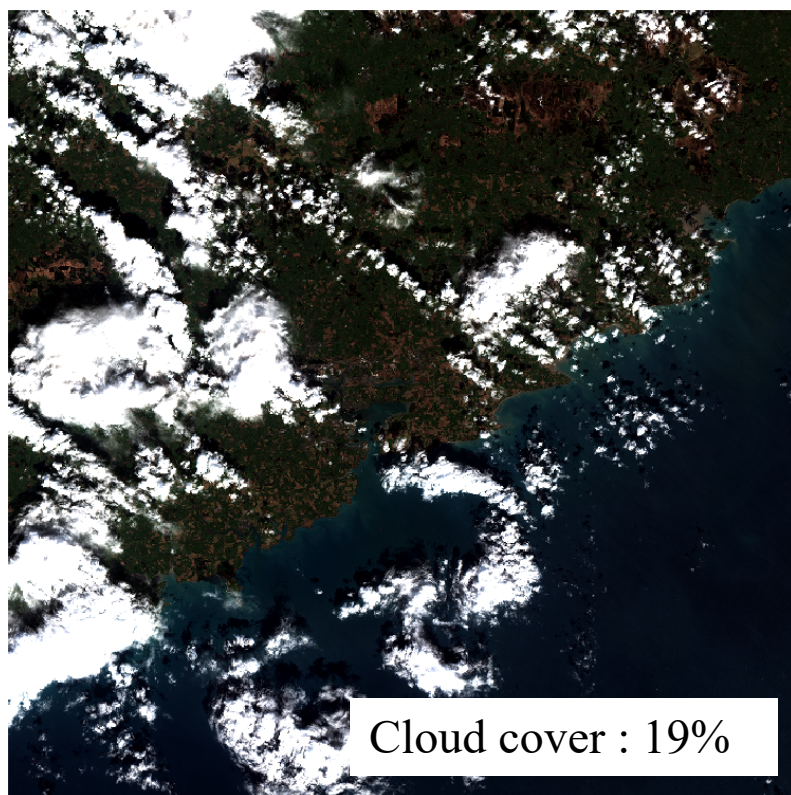
- Improvement of waterline to shoreline transformation

- Improvement of waterline to shoreline transformation

- Improvement of data selection

Global cloud cover selection  VS  Cloud cover over an AOI



Cloud cover : 19%

Cloud cover : 18%

Cloud cover : 14%

- Next steps

    Temporal study/ analysis of the products