

NORMALIZATION DIFFERENCE INDEX

FORMULA:

Acronym	Description	Formula
NDMI	Normalized Difference Moisture Index	$(NIR - SWIR1) / (NIR + SWIR1)$
NDVI	Normalized Difference Vegetation Index	$(NIR - Red) / (NIR + Red)$
NDSI	Normalized Difference Snow Index	$(Green - SWIR1) / (Green + SWIR1)$
NDWI	Normalized Difference Water Index	$(Green - NIR) / (Green + NIR)$
NDBI	Normalized Difference Built-up Index	$(SWIR1 - NIR) / (SWIR1 + NIR)$

BAND AND COLOR MAPPING

Blue: Band 2

Green: Band 3

Red: Band 4

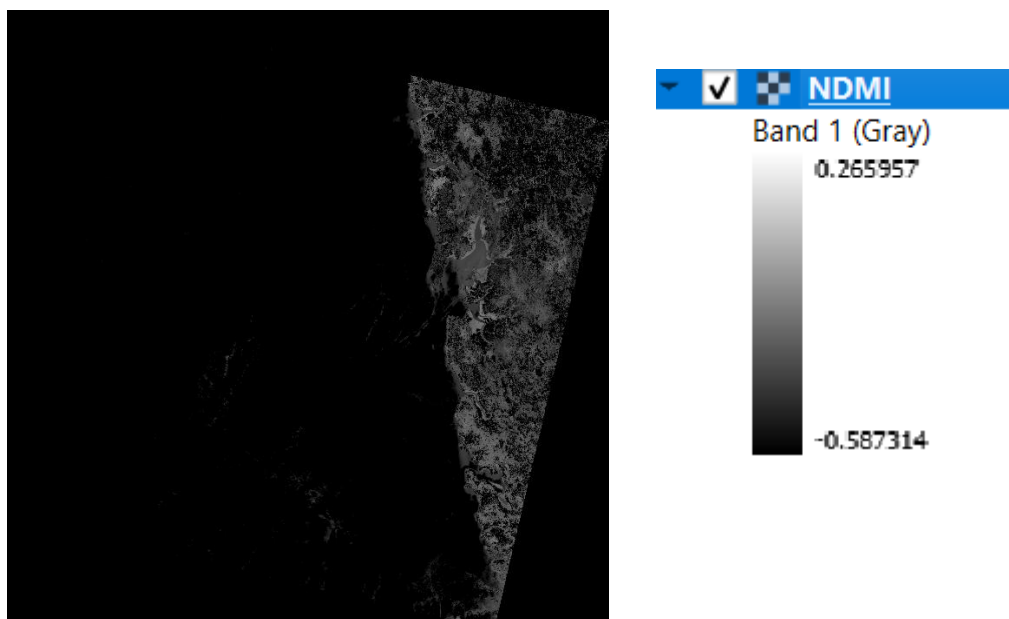
NIR: Band 5 (Near Infrared)

SWIR1: Band 6 (Shortwave Infrared 1)

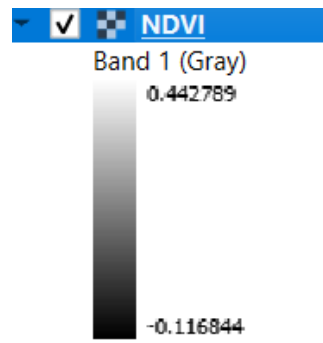
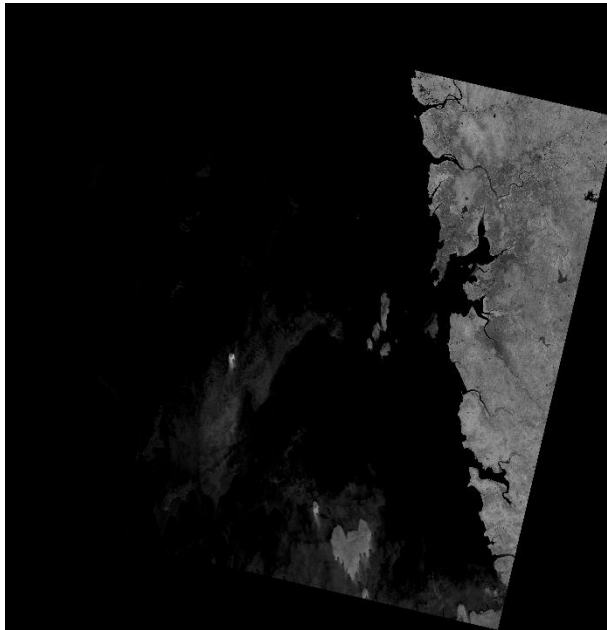
SWIR2: Band 7 (Shortwave Infrared 2)

TIR: Band 10 (Thermal Infrared)

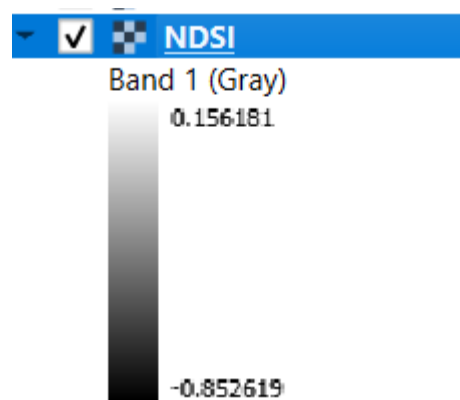
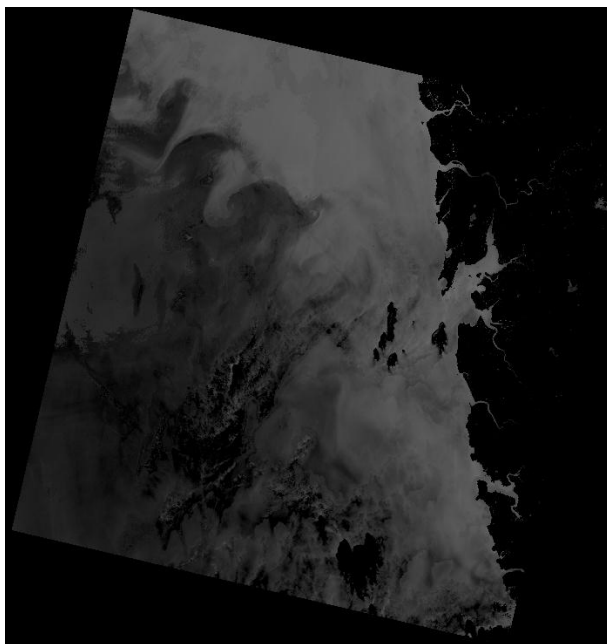
1)NDMI



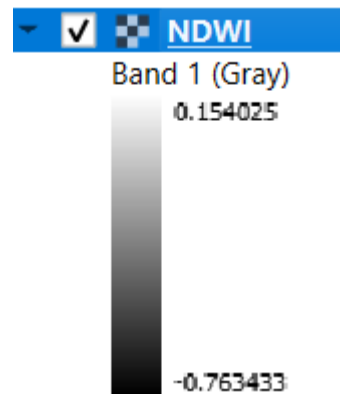
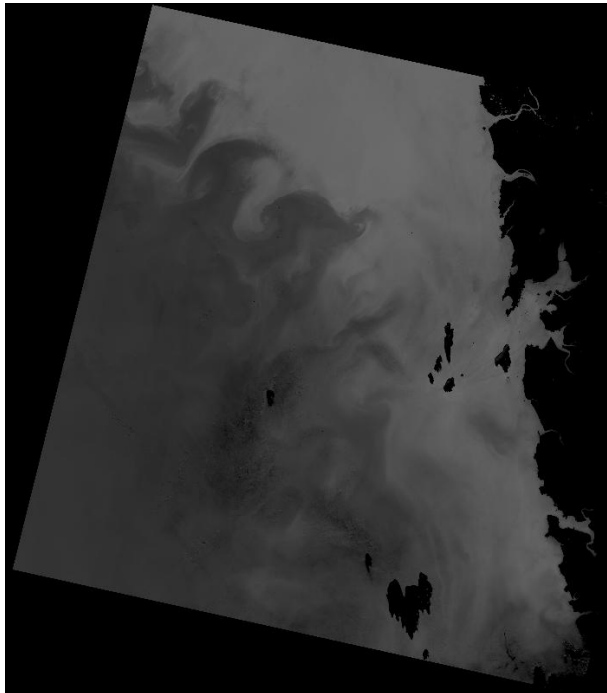
2)NDVI



3)NDSI



4)NDWI



5)NDBI

