

Supplementary Materials

Table S1 The Specification of Sentinel-2 Data

Lists	Specification
Pass direction	Descending
Processing level	Level-1C
Relative orbit	61 and 62
Product type	S2MSI1C
Tile Identifier	47PQQ (T47PPQ and T47PQQ)

The red rectangle represents the study area in Samut Songkhram province. The green rectangle dash indicated the descending mode in which the study area was in IW2. The yellow rectangle dash indicated the ascending mode in which the study area was in IW1 (Figure S1).

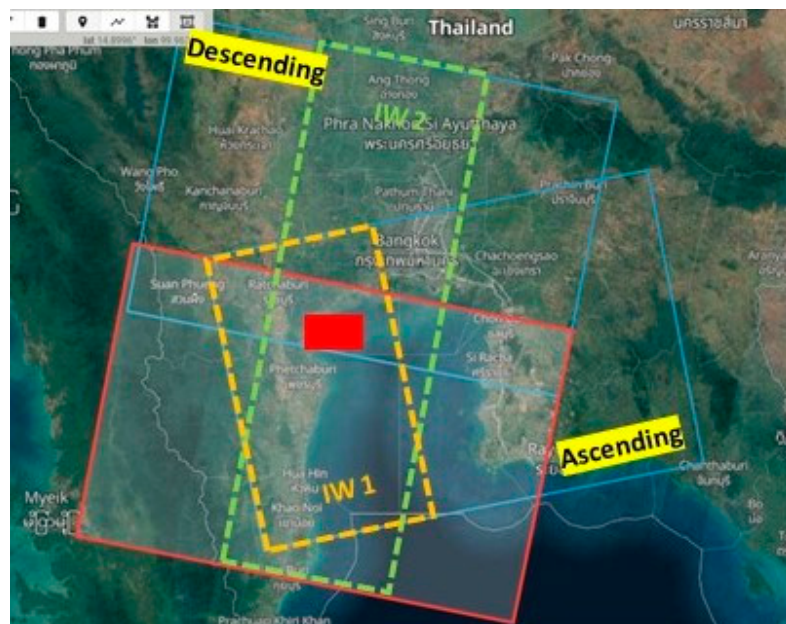


Figure S1 Sentinel-1 C-band Fly Directions Over the Study Area

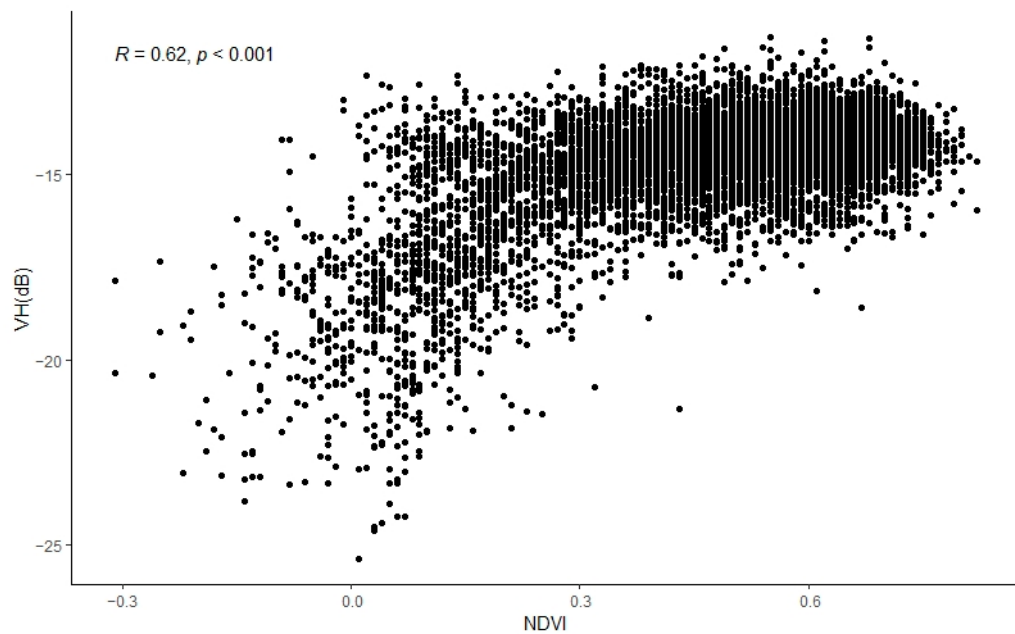


Figure S2 The Pearson's Correlation Between NDVI and VH Backscatter from Multiple-incidence Angle

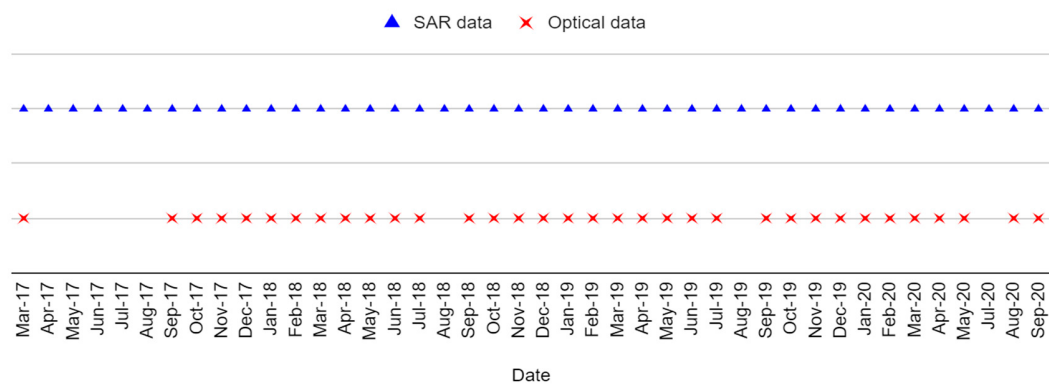


Figure S3 Data Available of Plot ID2 From Sentinel-1 SAR And Optical Data from Sentinel-2 During February 2017 to August 2020

The figure S4 showed the areas of sample plot ID145 which represented mangrove forest change from healthy to disturbance mangrove stages from Google Earth Pro. We can see on that after the mangrove was disturbed, some branches or mangrove stems were still on the ground.



Figure S4 The Satellite Images from Google Earth Pro Before and After Mangrove Forest Was Disbanded on Plot ID145

The figure S5 showed the areas of sample plot ID307 which represented mangrove forest change from healthy to disturbance mangrove from Google Earth Pro. The satellite images in August 2020 represented the surrounding areas of sample plot ID 307 (red dash dot square). We can this sample was surrounded with water or pond which might be affected from soil moisture or increasing sea level



Figure S5 The Satellite Images from Google Earth Pro Before and After Mangrove Forest Was Disbanded on Plot ID307