



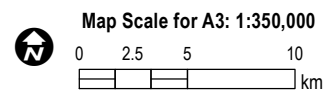
Satellite detected waters in Kangwon Province of Democratic People's Republic of Korea as of 7 September 2020

This map illustrates satellite-detected surface waters in Kangwon Province of Democratic People's Republic of Korea as observed from a Sentinel-1 image acquired on 7 September 2020. Within the analyzed area of about 8,000 km², a total of about 33 km² of lands appear to be flooded. Based on Worldpop population data and the detected surface waters, about 20,000 people are potentially exposed or living close to flooded areas. This is a preliminary analysis and has not yet been validated in the field. Please send ground feedback to UNITAR-UNOSAT.

Important Note: Flood analysis from radar images may underestimate the presence of standing waters in built-up areas and densely vegetated areas due to backscattering properties of the radar signal.

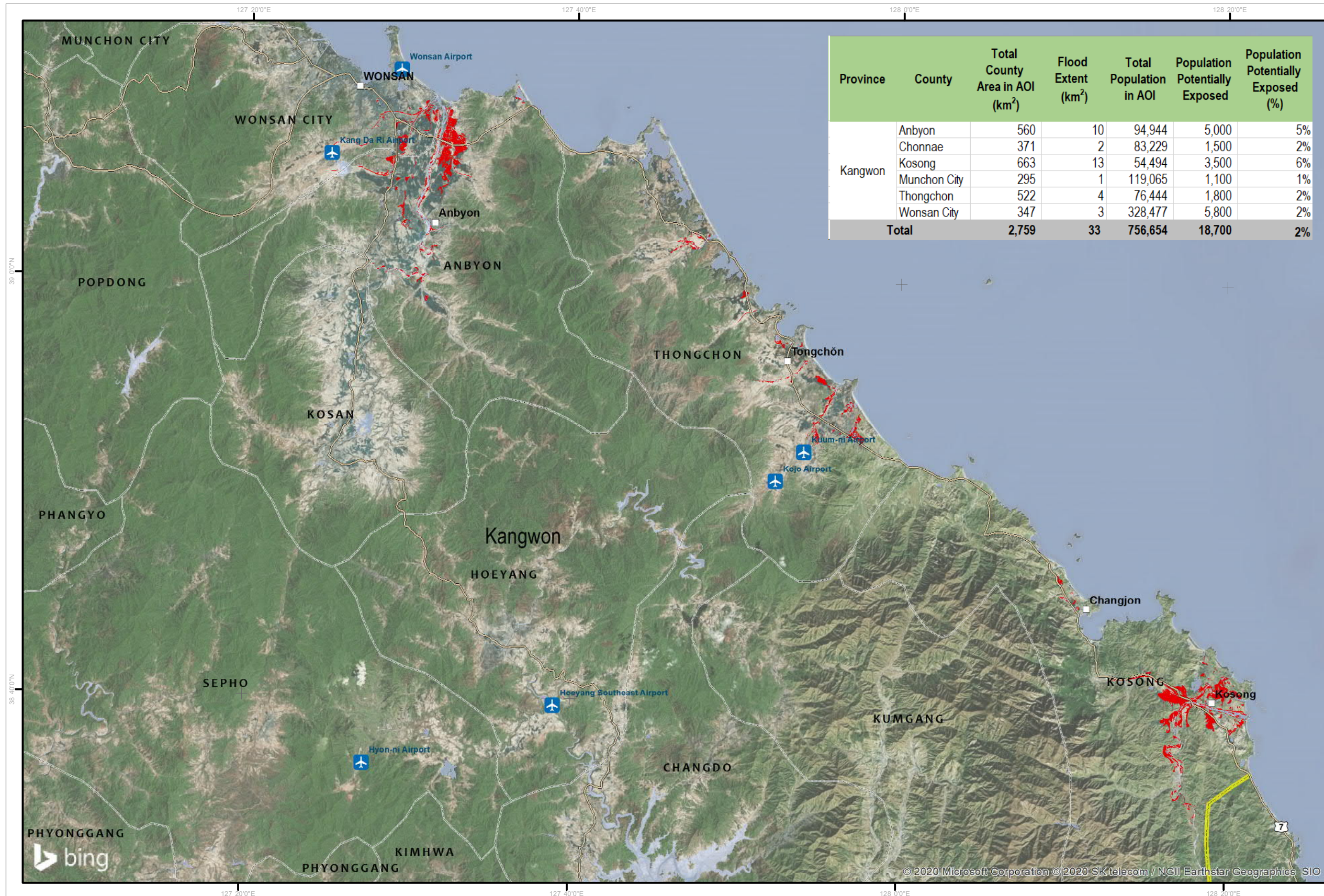
Legend

-  City / Town
-  Airport
-  Highway / Primary Road
-  International boundary
-  County boundary
-  Reference Water
-  Satellite detected water [7 September 2020]



Analysis conducted with ArcGIS v10.7

Coordinate System: WGS 1984 UTM Zone 52N
 Projection: Transverse Mercator
 Datum: WGS 1984
 Units: Meter



Province	County	Total County Area in AOI (km ²)	Flood Extent (km ²)	Total Population in AOI	Population Potentially Exposed	Population Potentially Exposed (%)
Kangwon	Anbyon	560	10	94,944	5,000	5%
	Chonnae	371	2	83,229	1,500	2%
	Kosong	663	13	54,494	3,500	6%
	Munchon City	295	1	119,065	1,100	1%
	Thongchon	522	4	76,444	1,800	2%
	Wonsan City	347	3	328,477	5,800	2%
Total		2,759	33	756,654	18,700	2%

Satellite Data (Post) : Sentinel-1
 Imagery Date : 7 September 2020
 Resolution : 10 cm
 Copyright : Contain modified Copernicus Sentinel Data [2020]
 Source : ESA

Satellite Data (Pre) : Sentinel-1
 Imagery Date : 27 April 2020
 Resolution : 10 cm
 Copyright : Contain modified Copernicus Sentinel Data [2020]
 Source : ESA

Administrative boundaries: World Food Programme
 Reference Water : JRC
 Analysis : UNITAR - UNOSAT
 Production: UNITAR - UNOSAT

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