

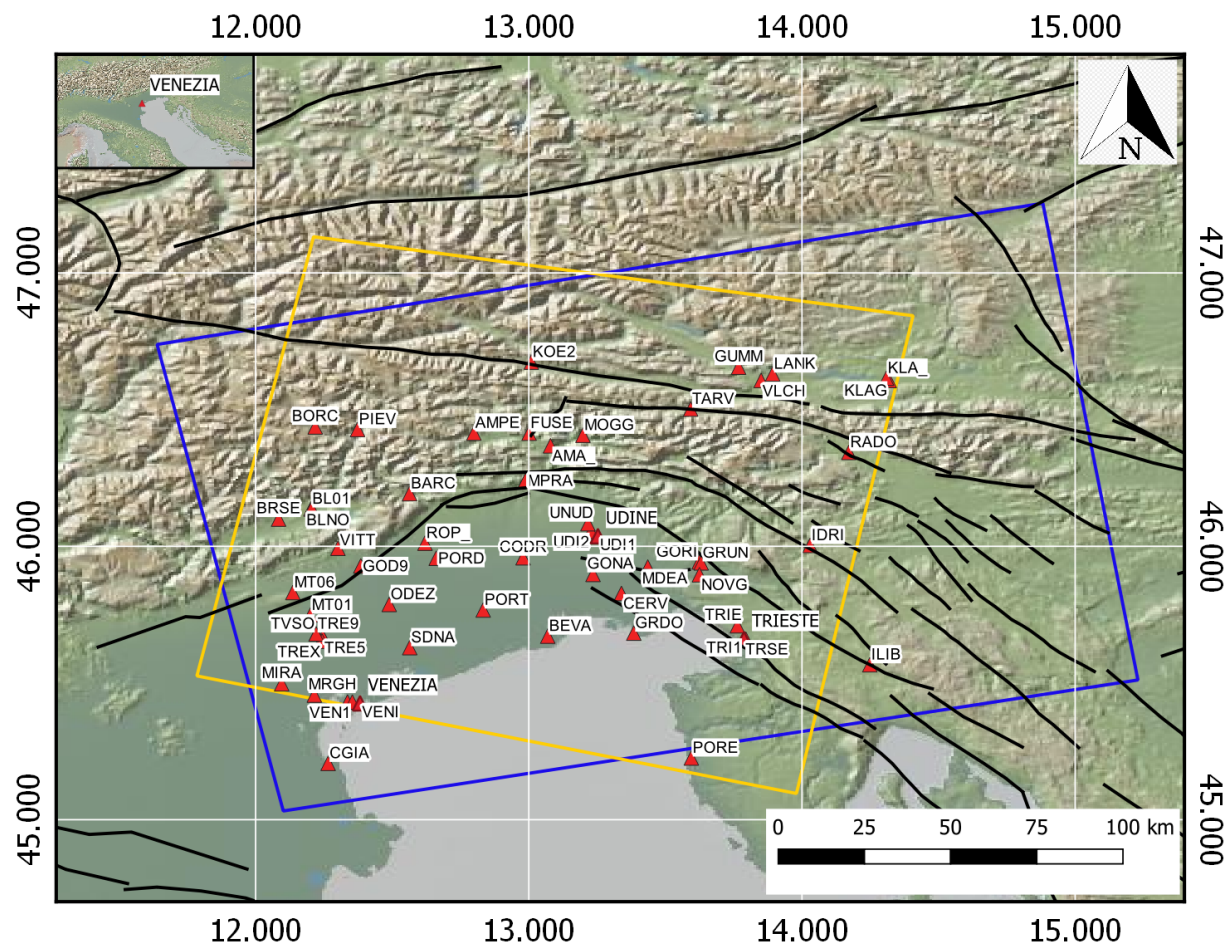
SURFACE DEFORMATION ANALYSIS IN NORTHEAST ITALY BY USING PS-INSAR AND GNSS DATA

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DATA AND TECTONIC SETTING



Sentinel 1A/B

Ascending Track n° 44

Descending Track n° 95

March 2015 – December 2019

GNSS stations

Adria fixed reference system

2000 – 2020

Legenda

— European Database of Seismogenic Faults (SHARE)

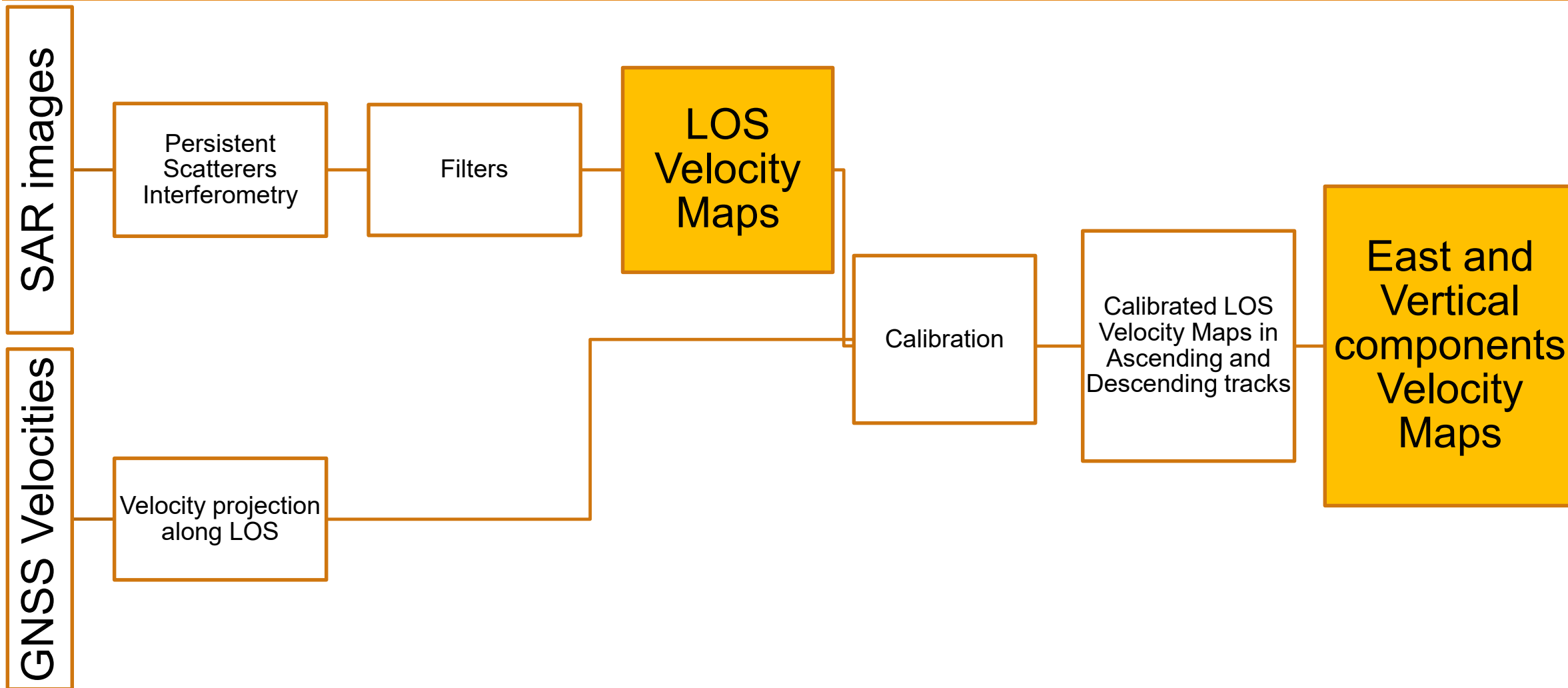
▲ GNSS stations

SAR data

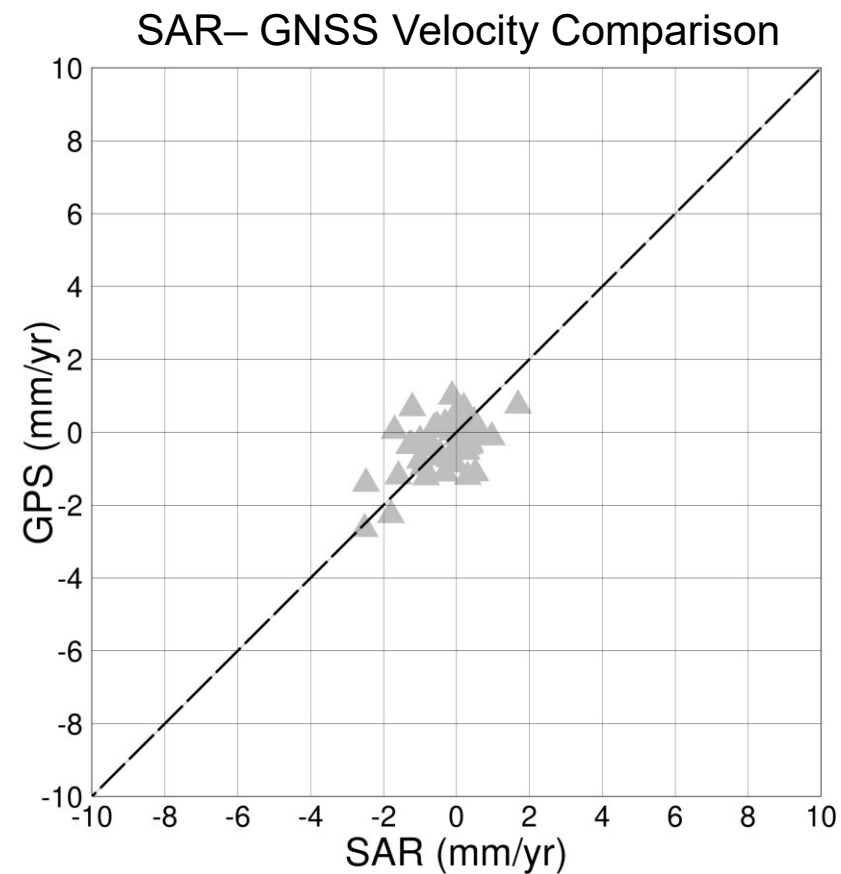
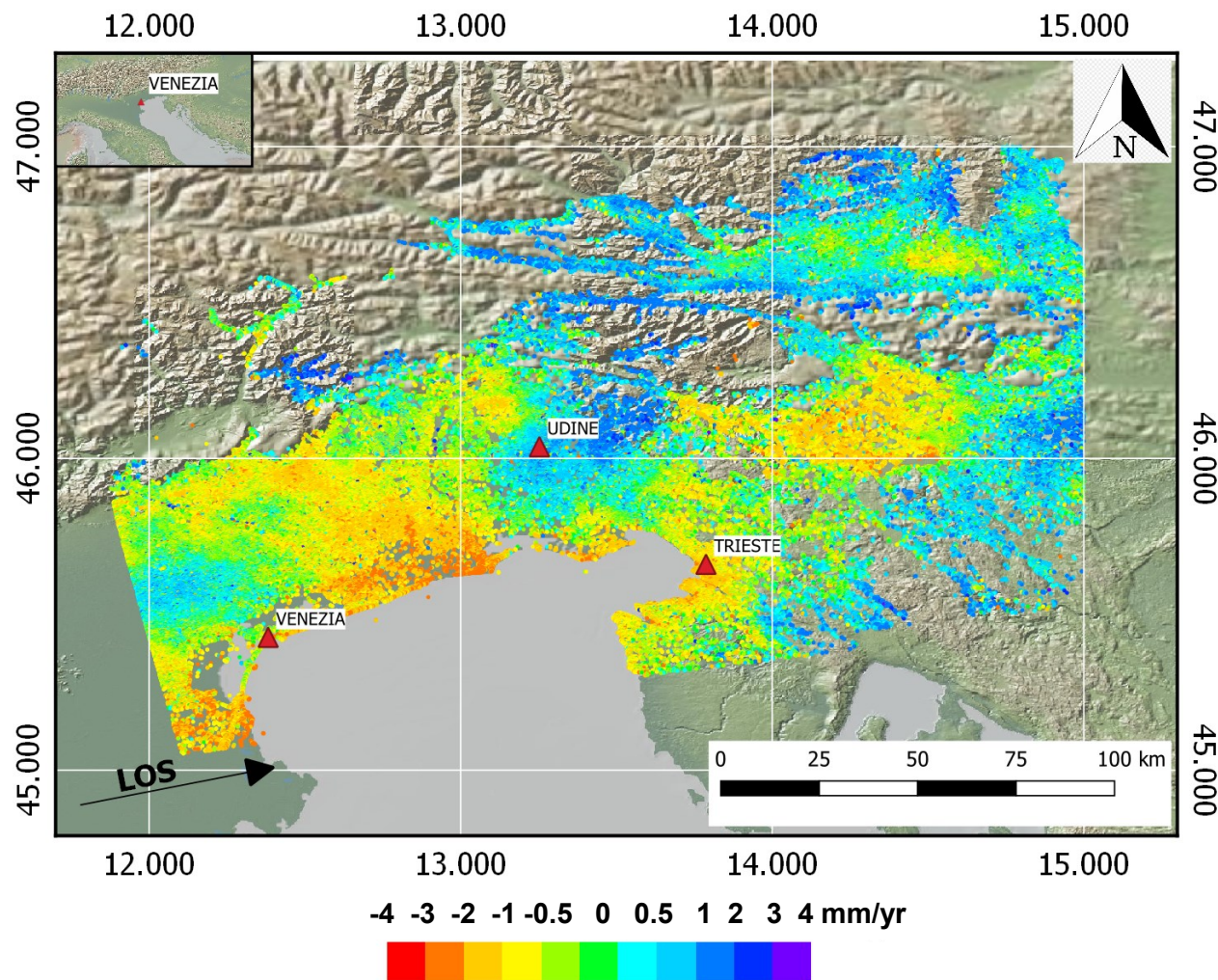
☐ Ascending Track

 Descending Track

METHODS

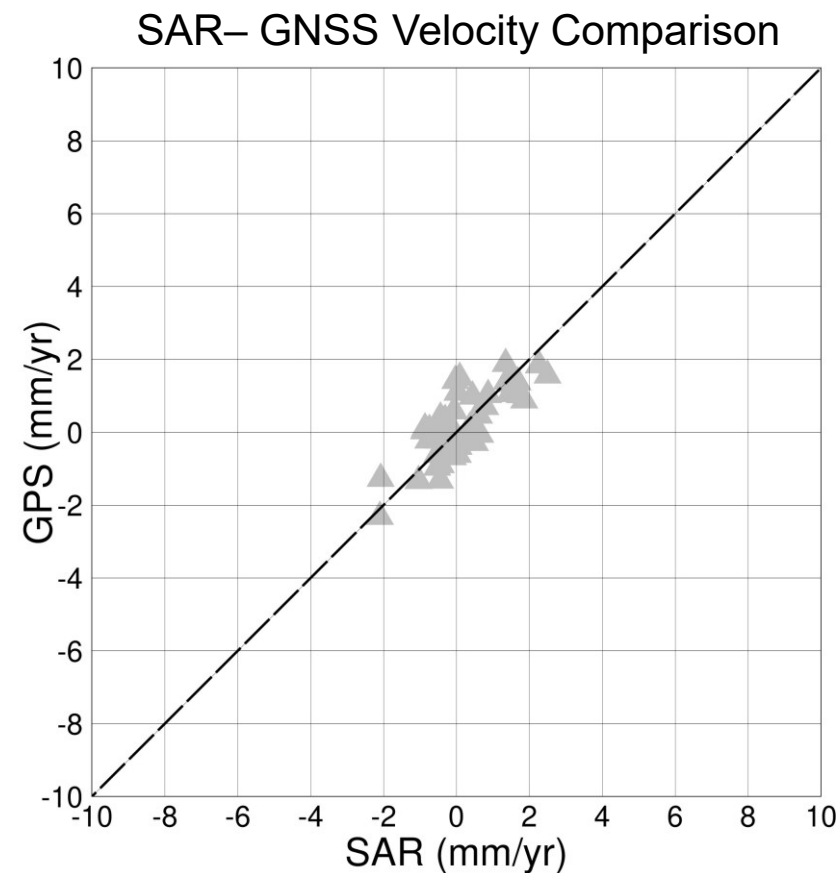
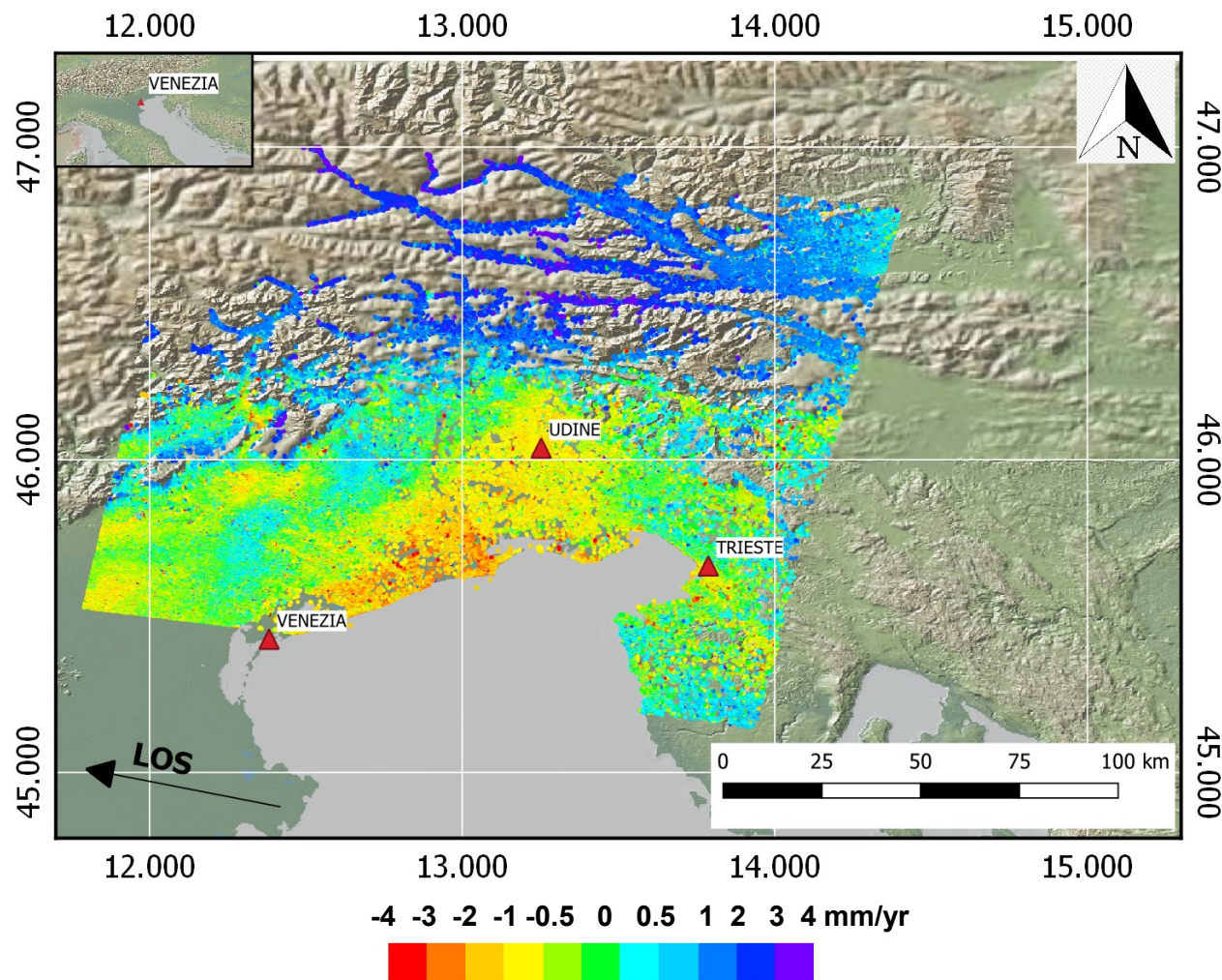


RESULTS: ASCENDING LOS VELOCITY MAPS



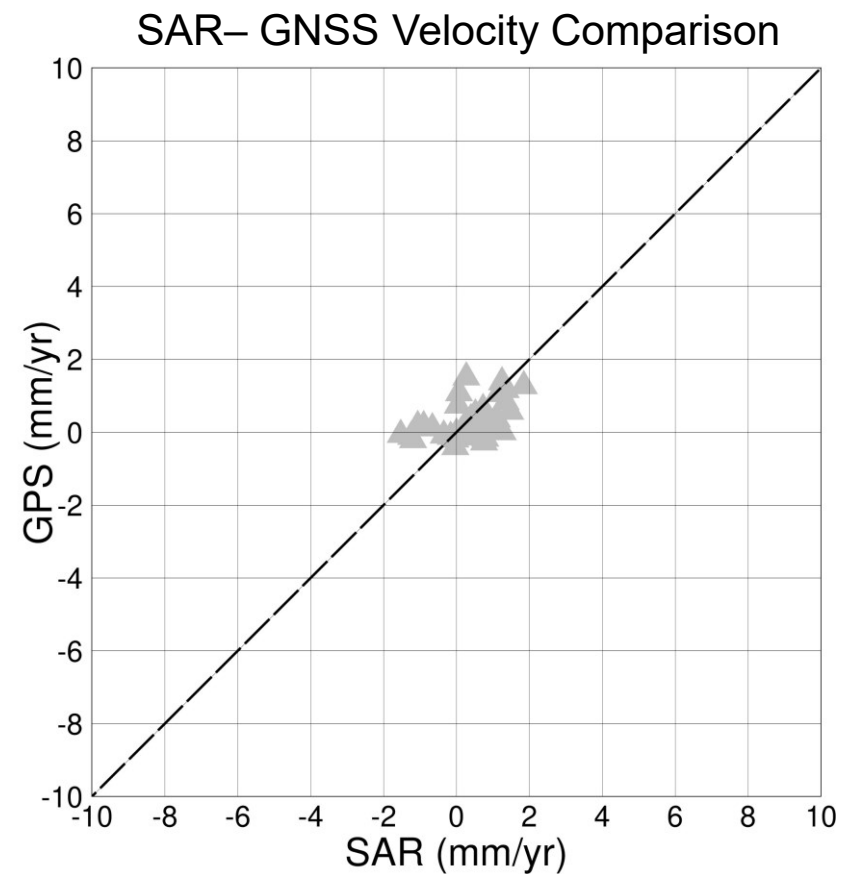
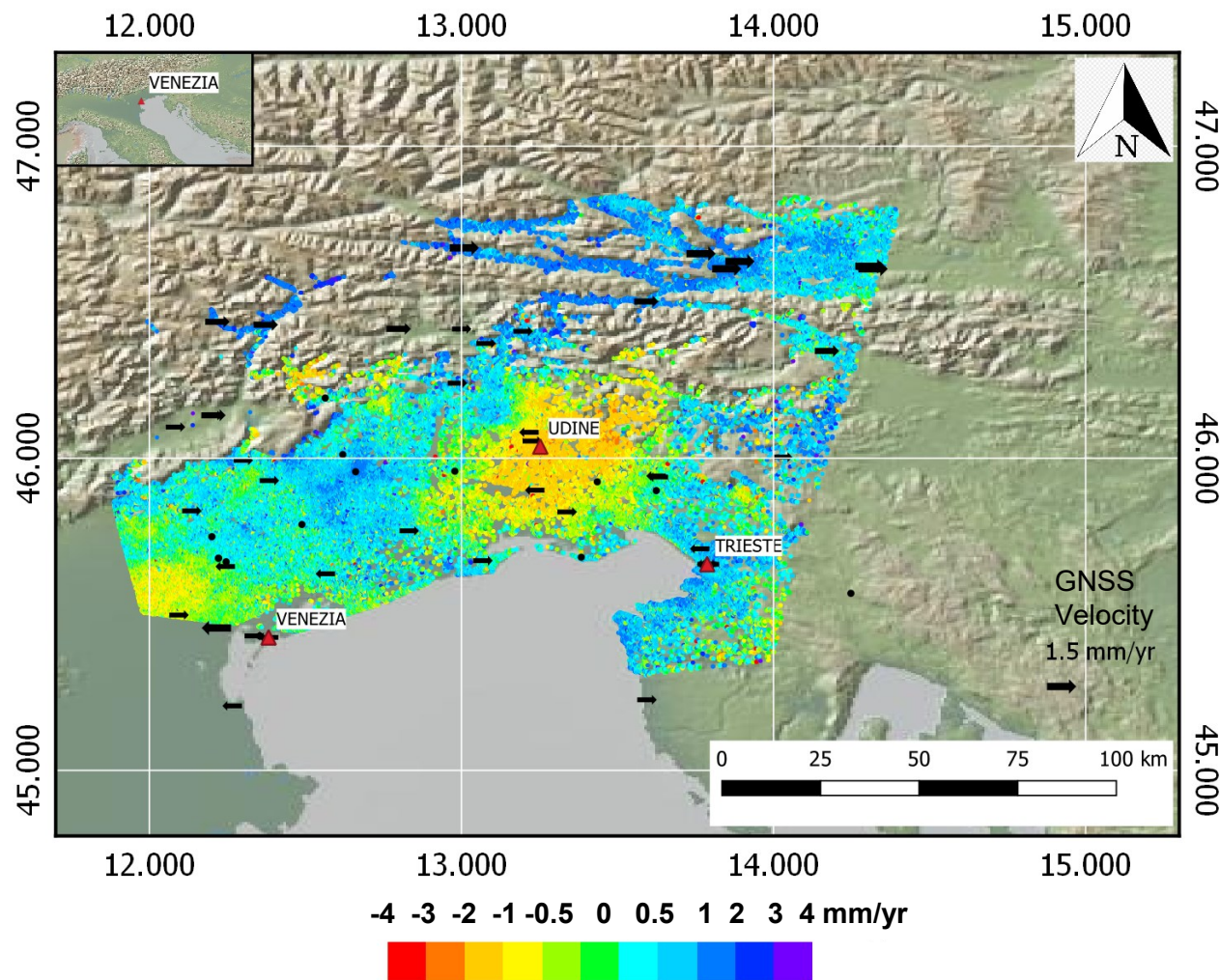
Mean: 0,08 mm/yr
Standard Deviation: 0,73 mm/yr

RESULTS: DESCENDING LOS VELOCITY MAPS



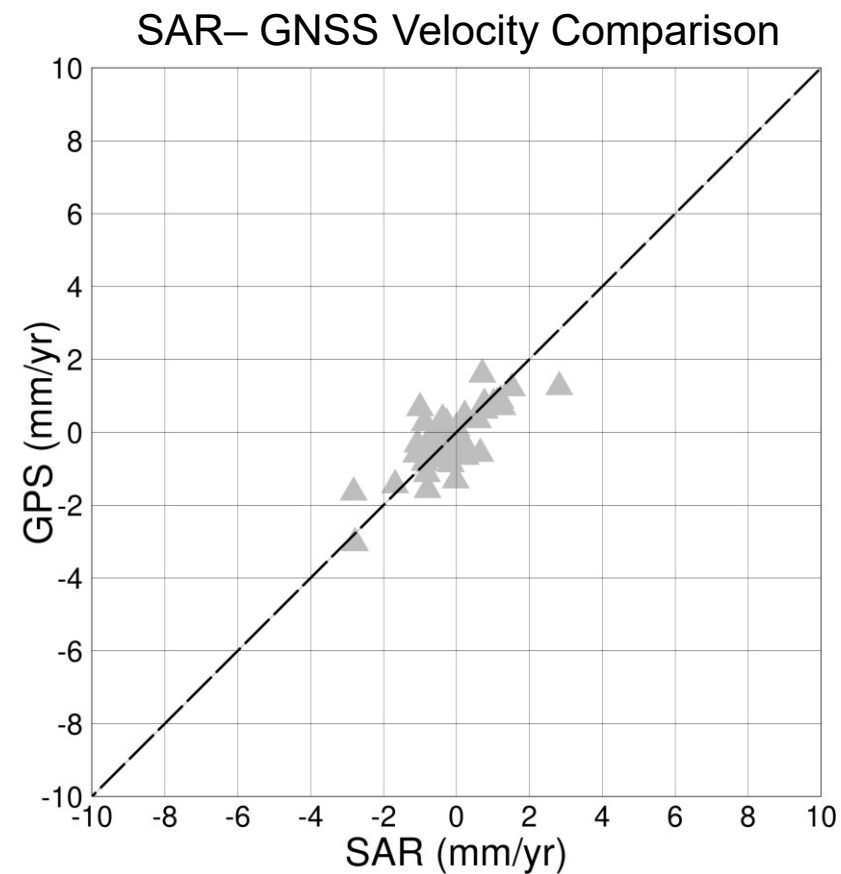
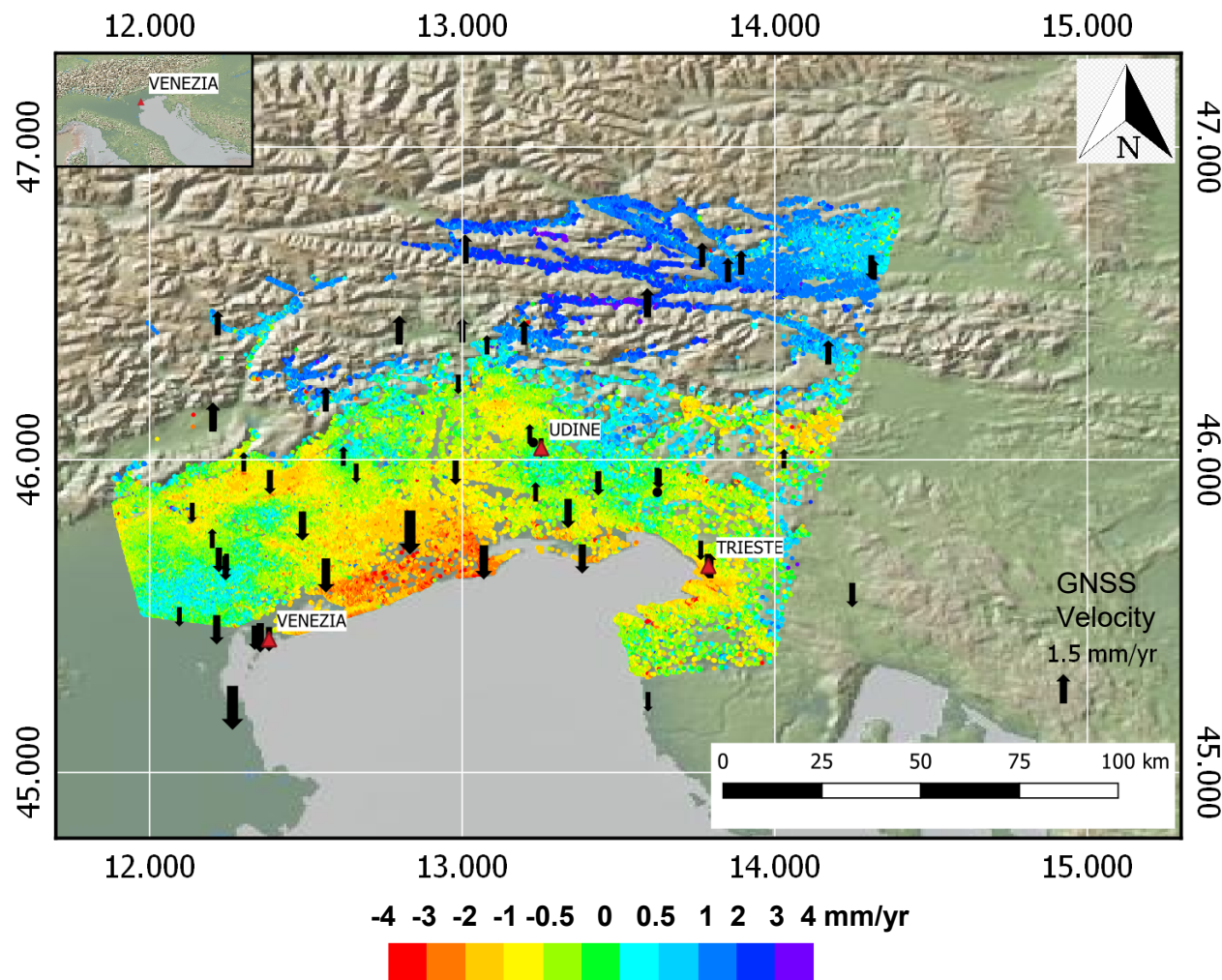
Mean: -0,01 mm/yr
Standard Deviation: 0,59 mm/yr

RESULTS: EAST - WEST VELOCITY MAPS



Mean: 0,09 mm/yr
Standard Deviation: 0,68 mm/yr

RESULTS: VERTICAL VELOCITY MAPS



Mean: 0,05 mm/yr
Standard Deviation: 0,66 mm/yr