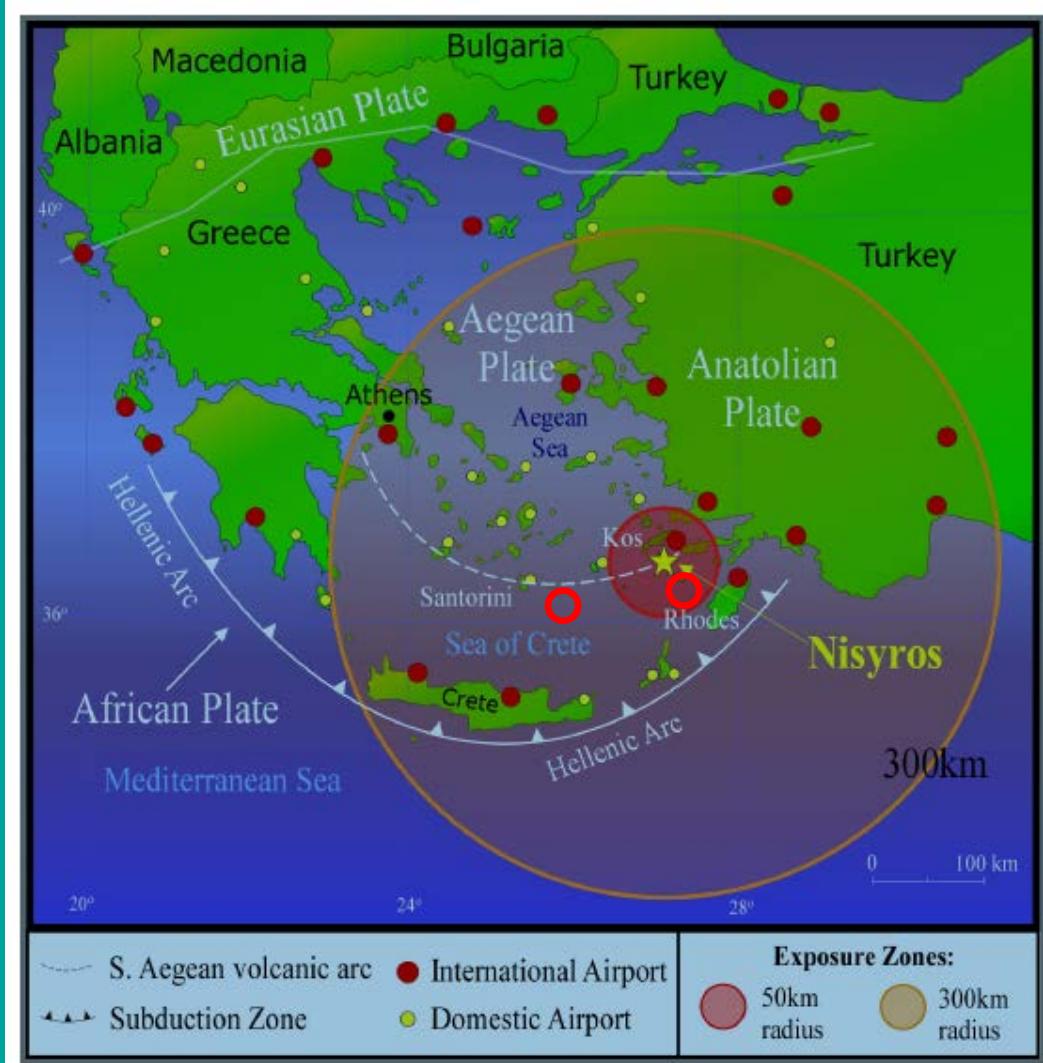


G R E V O L C A N networks

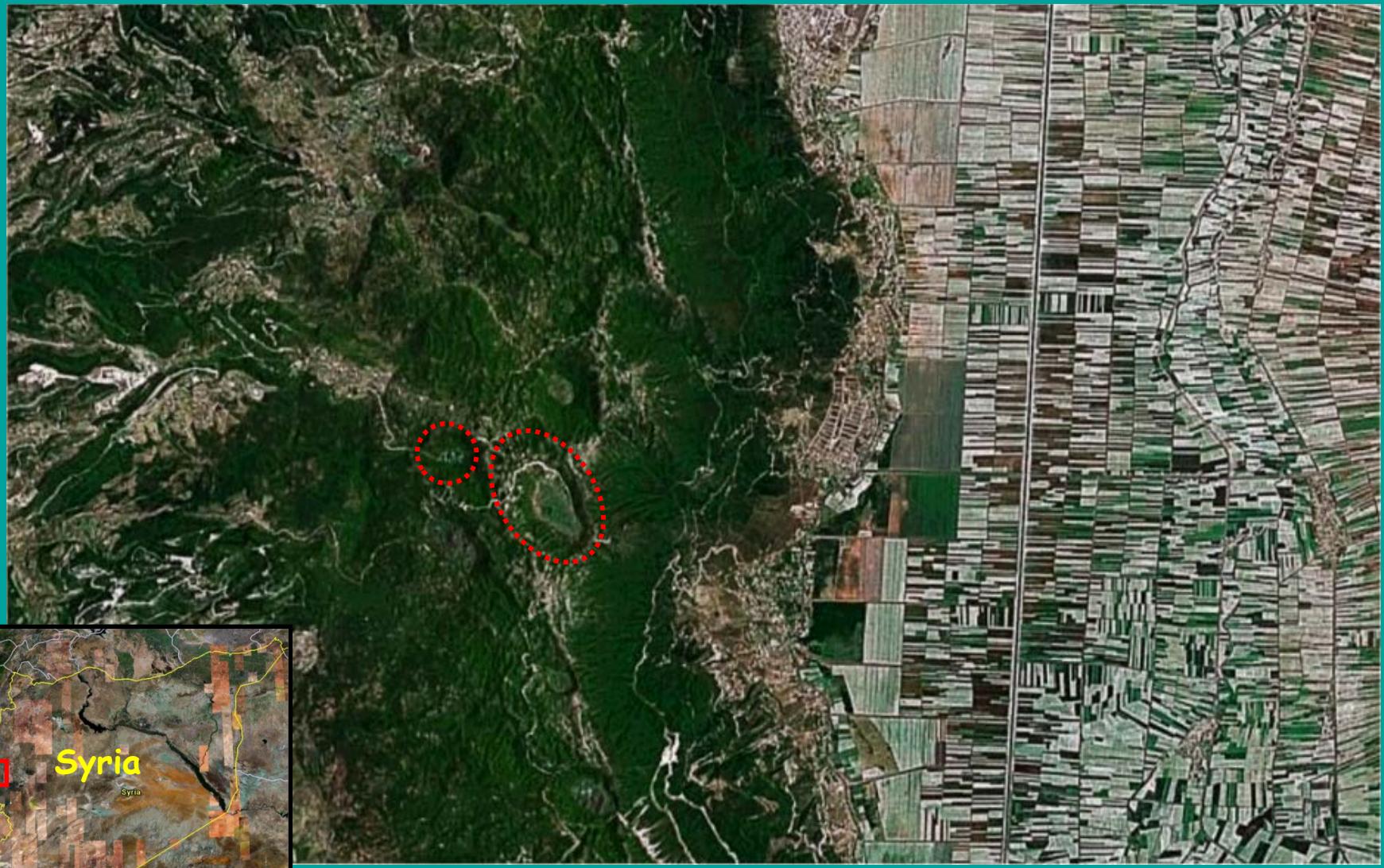
Jan Mrlina, Institute of Geophysics CAS, Prague



Greek volcanic islands

Nisyros
Thera

Gravity investigations of volcanic craters – Coastal Mts., Syria





Pity - we don't have this in Central Europe ☹

or is it a good luck ? ☺



History 5 Mytina , W Bohemia



Question:

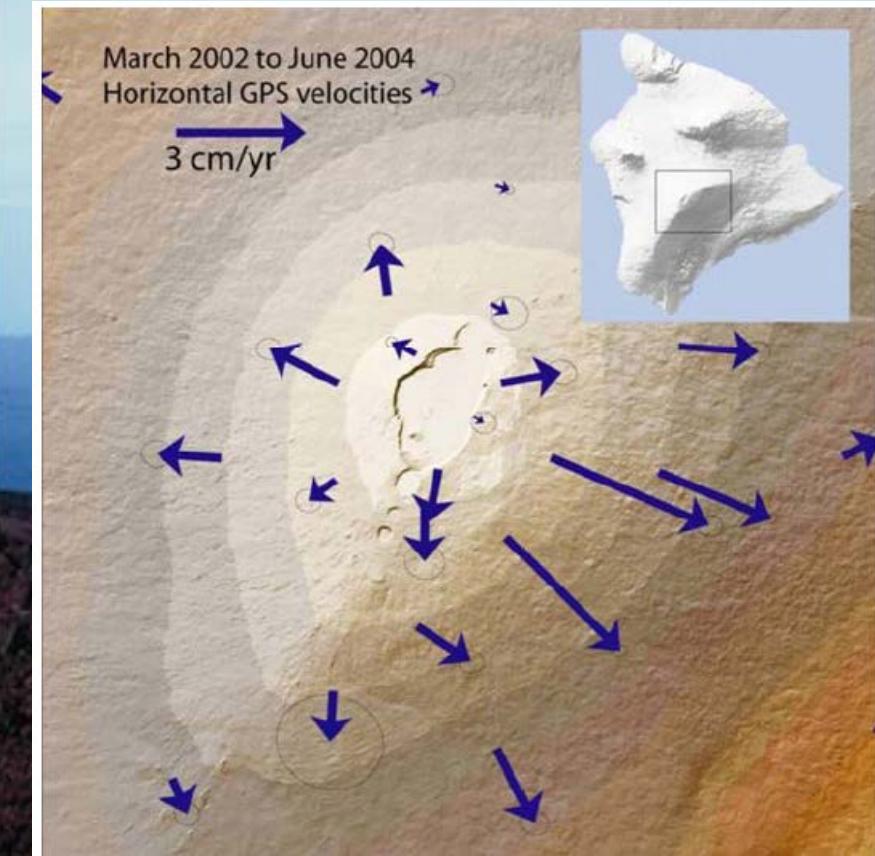
Are such volcanoes dead, sleeping,
or getting ready for attack ?

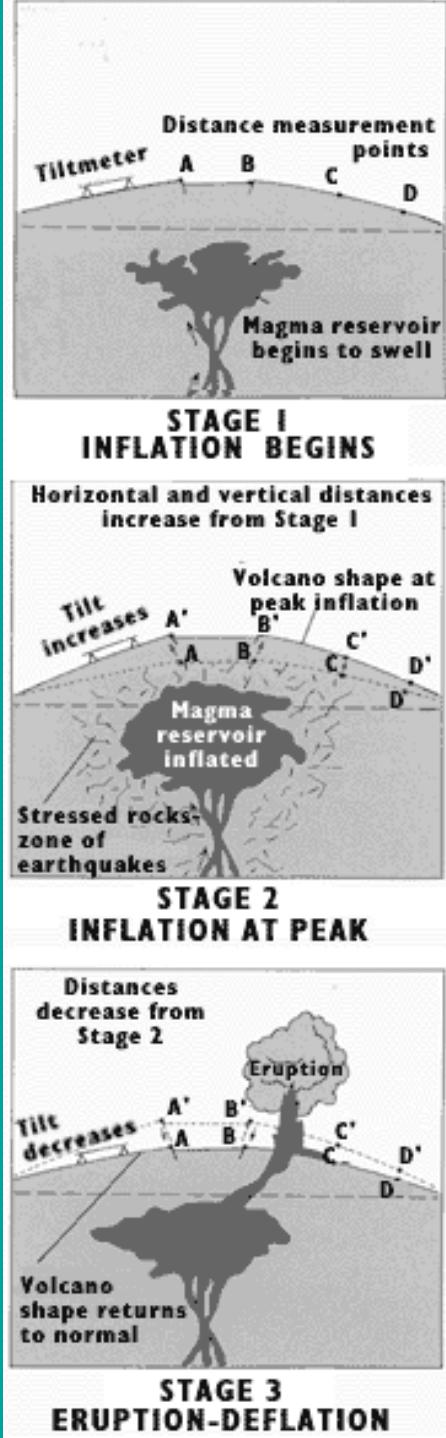
When/Where ???

MONITORING !!!

Geophysics – seismology, microgravity, tiltmeters,
GNSS, InSAR, laser scanning, . . .

Mauna Loa, Hawaii





Surface displacement

- 3 commonly observed stages in the course of a typical Hawaiian eruption.

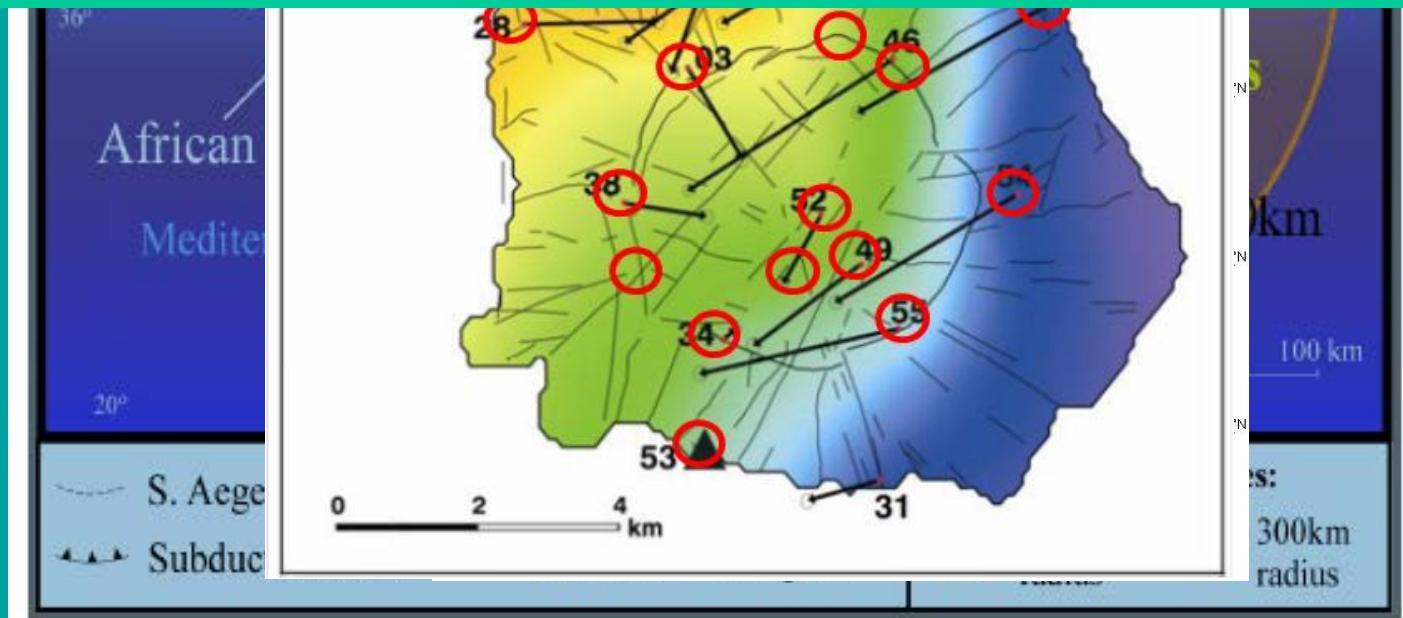
(modified from illustration by John D. Unger in *Earthquake Information Bulletin*, 1974, v. 6, p. 7.)

Network 1: Nisyros - Kos

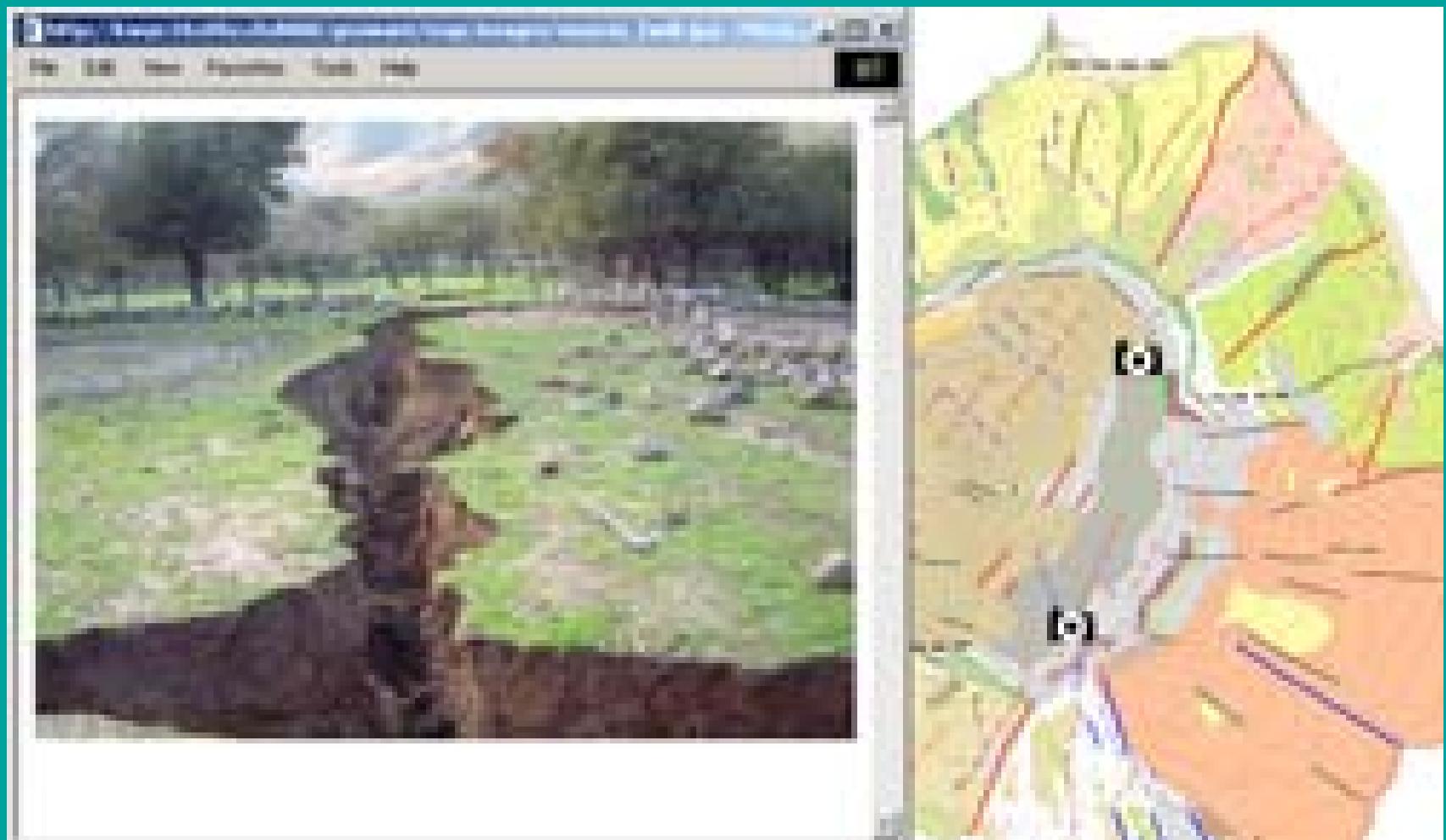
We developed the network from 7 to 20
gravity observation sites

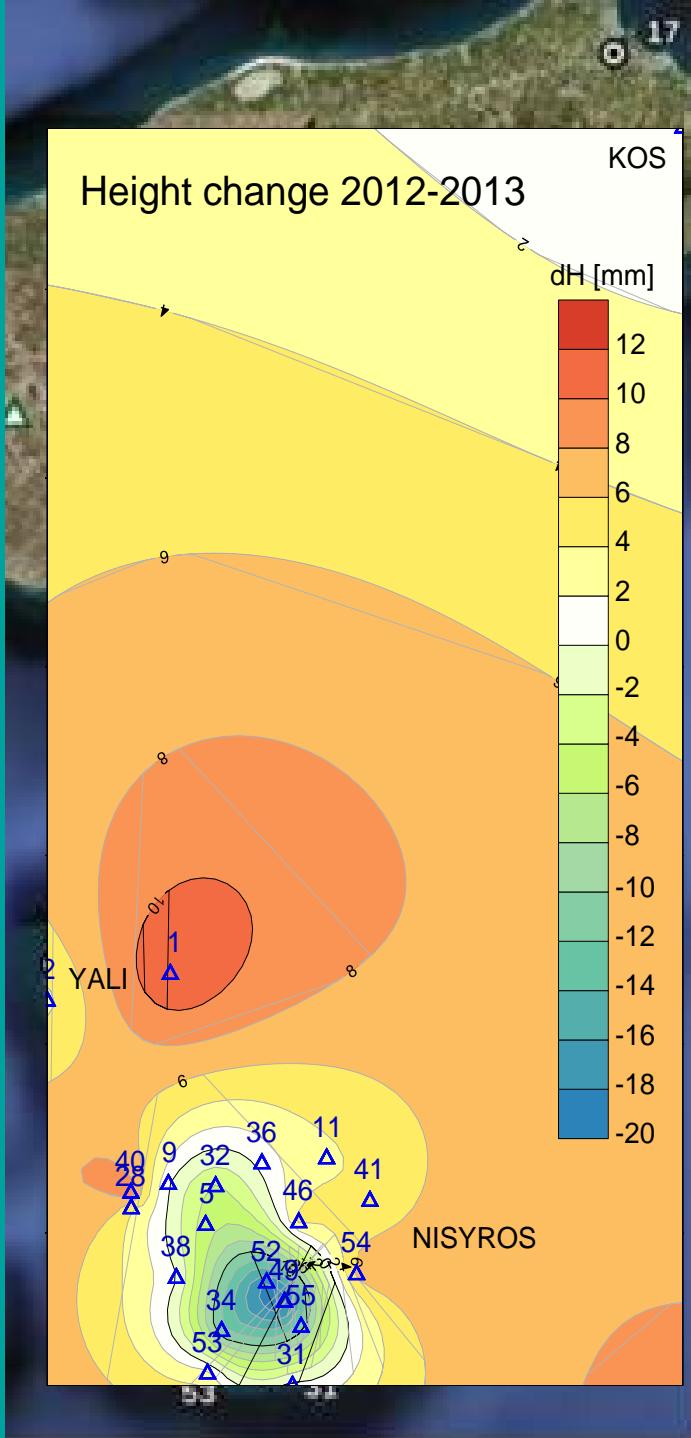
Our campaigns: 2013 - 2016

Our plan: complex evaluation after 2017 campaign,
install possibly permanent gravimeter

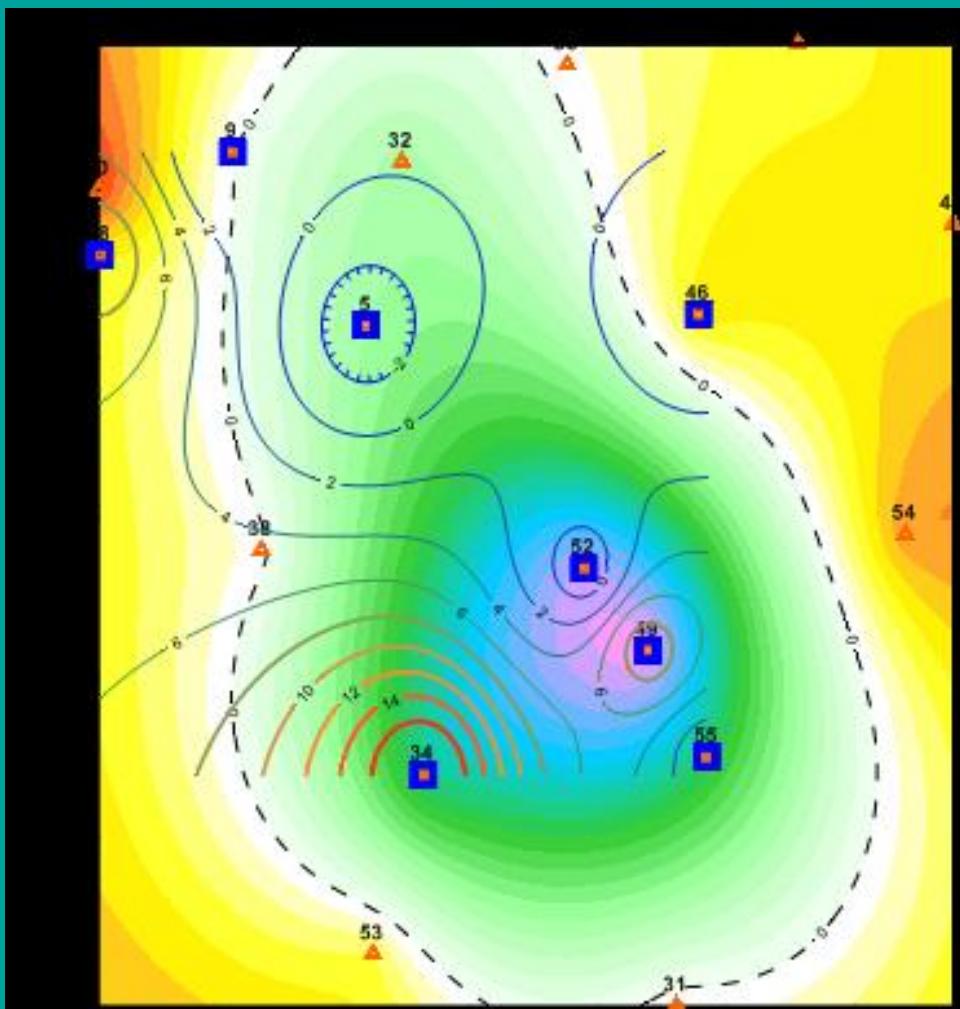








GPS observations – cooperation with
Capodistrian University of Athens

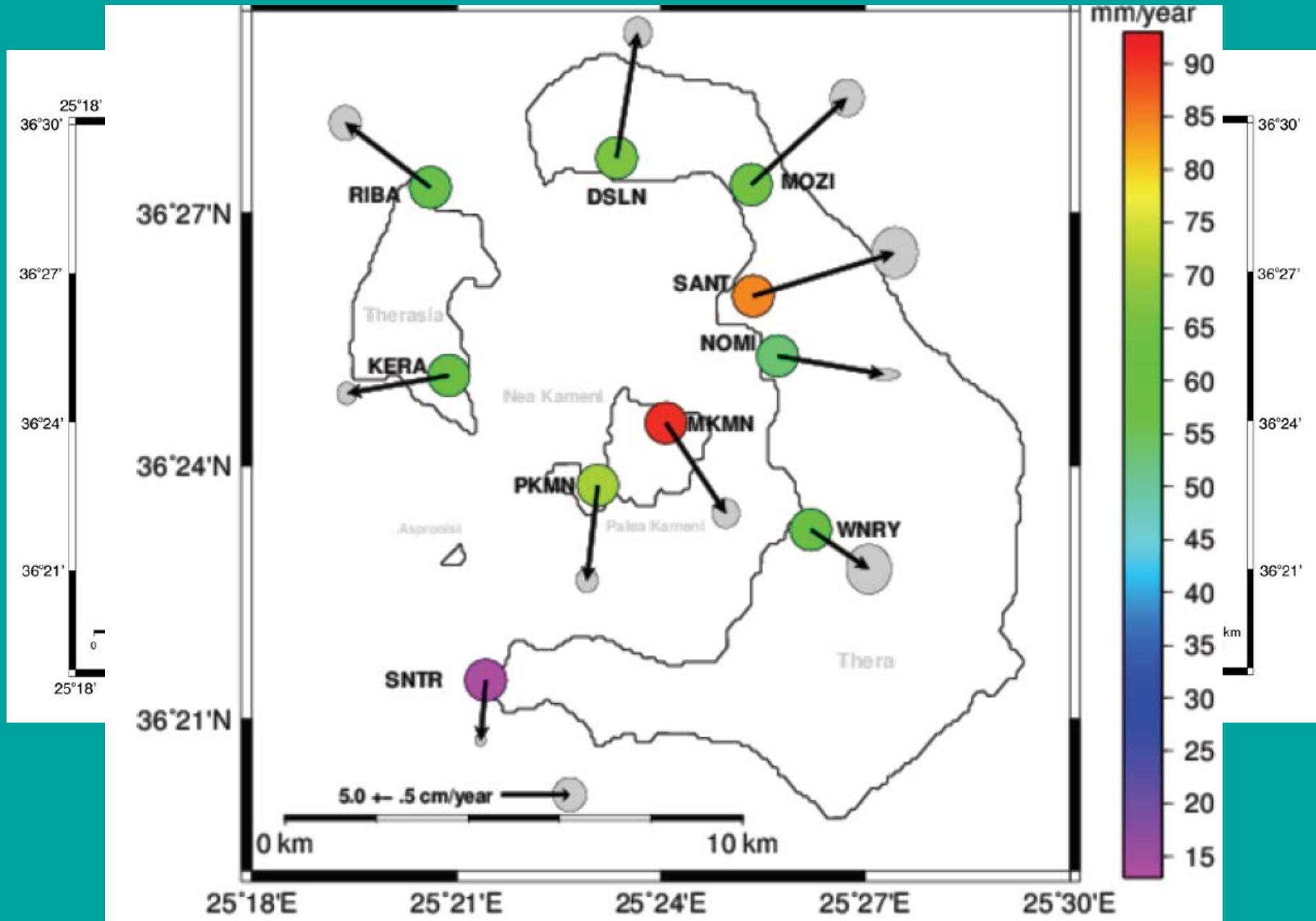


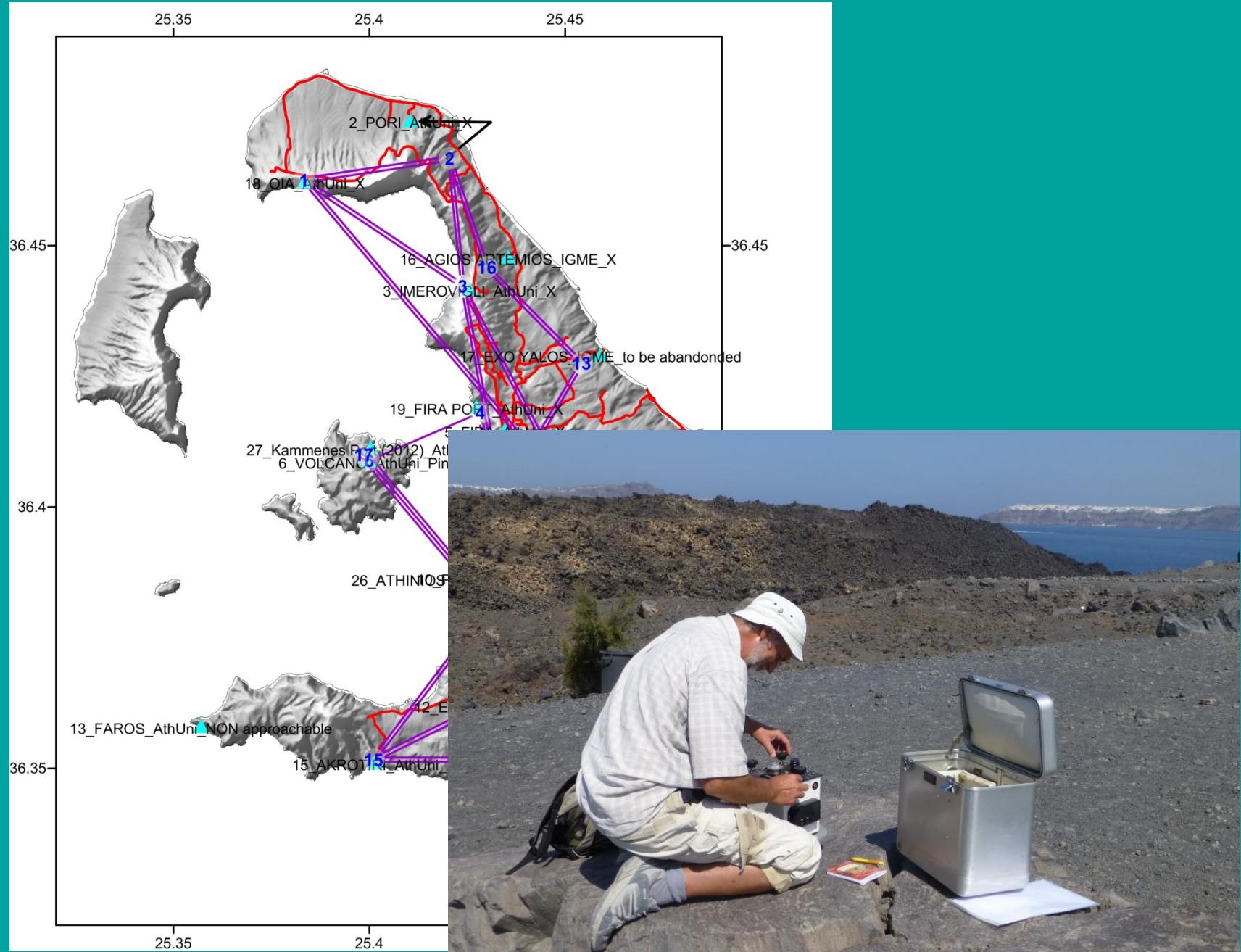
Some gravity/GNSS observation sites



Network 2: Therapeutic

Therapeutic





We developed the network from 17 to 22
gravity observation sites

Our campaigns: 2013, 2015

Our plan: complex evaluation after 2017 campaign