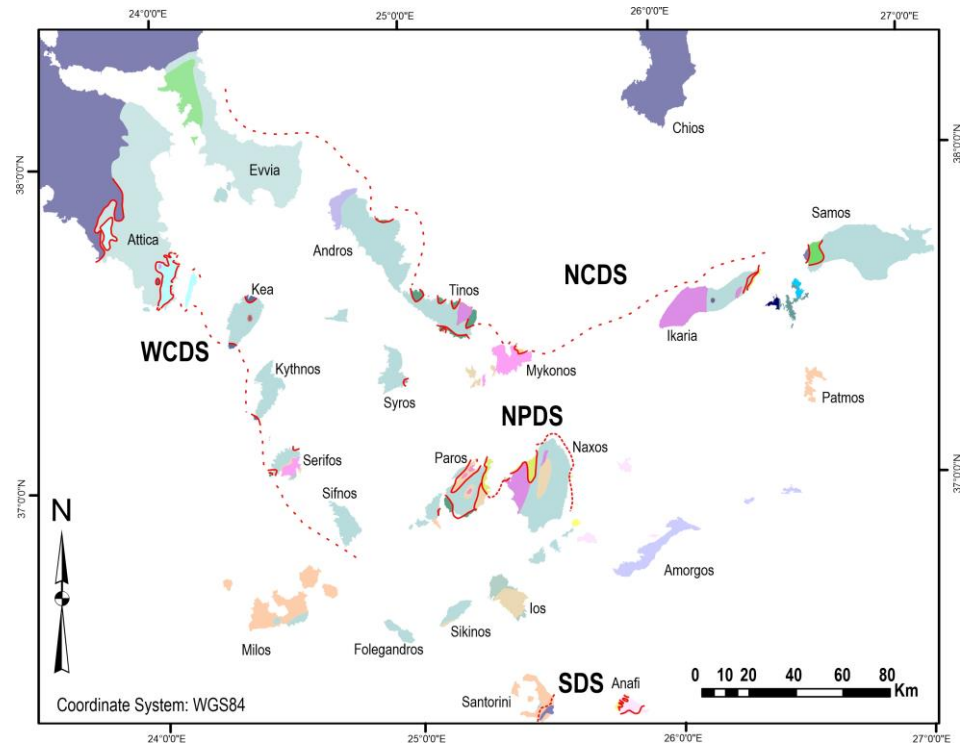




SOUTH AEGEAN

Formed during Oligo-Miocene to recent regional back-arc extension in response to slab rollback of the African plate and trench retreat (Royden 1993, Jolivet and Brun 2010)

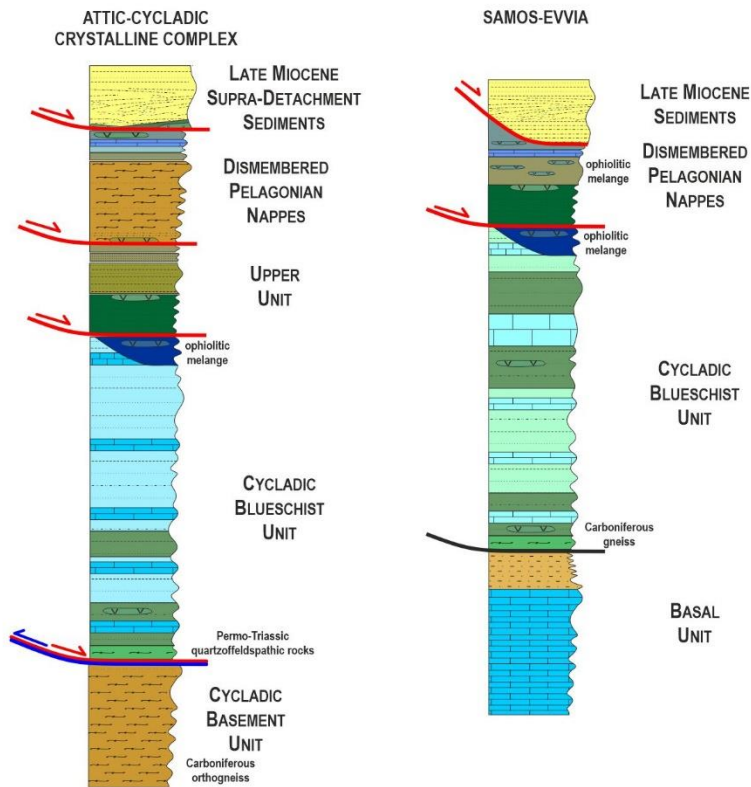
Major extensional detachment systems exhumed the lower and middle crust rocks



Compiled after Grasemann et al 2012; 2018; Schneider et al 2018; Jolivet and Brun 2010; Jolivet et al. 2010; 2013; Lekkas et al., 2011; Malandri et al., 2017; Soukis and Papanikolaou 2004; Soukis and Stockli 2013; Roche et al., 2018



A reconstruction of the Cycladic Blueschist Domain (Cyclades, Greece)



- Late Miocene sediments
- Pelagonian Units (dismembered)
- Cycladic Blueschist Unit (UCBN and LCBN)
- Cycladic Basement (Carboniferous)
- Basal Unit



A reconstruction of the Cycladic Blueschist Domain (Cyclades, Greece)

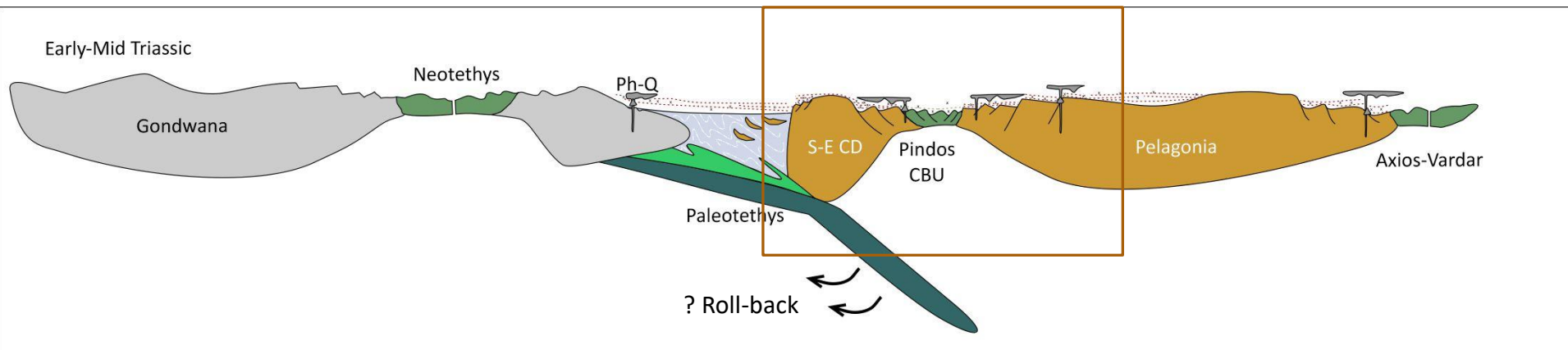


Northern vs Southern Cycladic
distinction

Based largely but not only on difference
in Lithostratigraphic columns
and manganese vs emery deposits
This was later contested



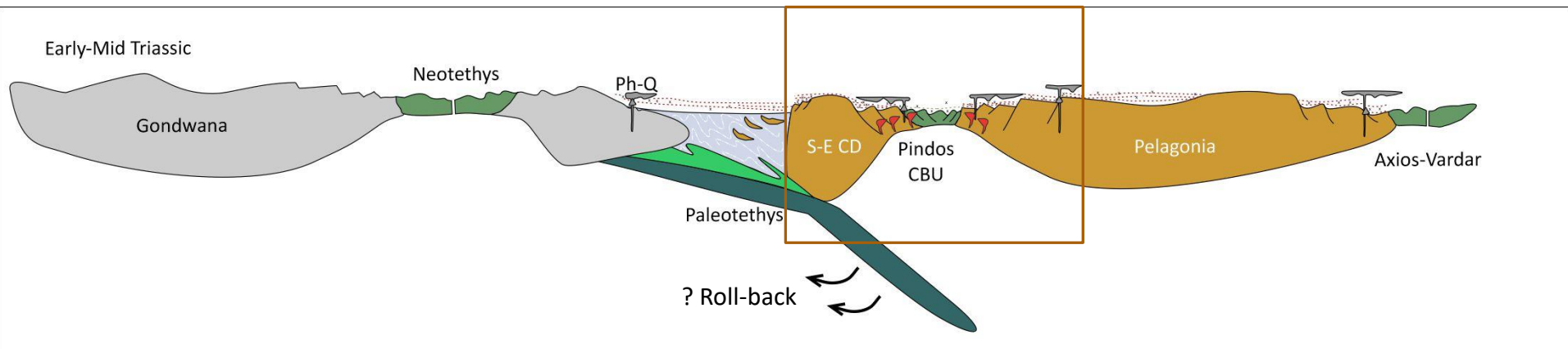
A reconstruction of the Cycladic Blueschist Domain (Cyclades, Greece)



Closing of Paleo-Tethys in the Early-Mid Triassic leads to
back-arc opening of Pindos-CBU Domain



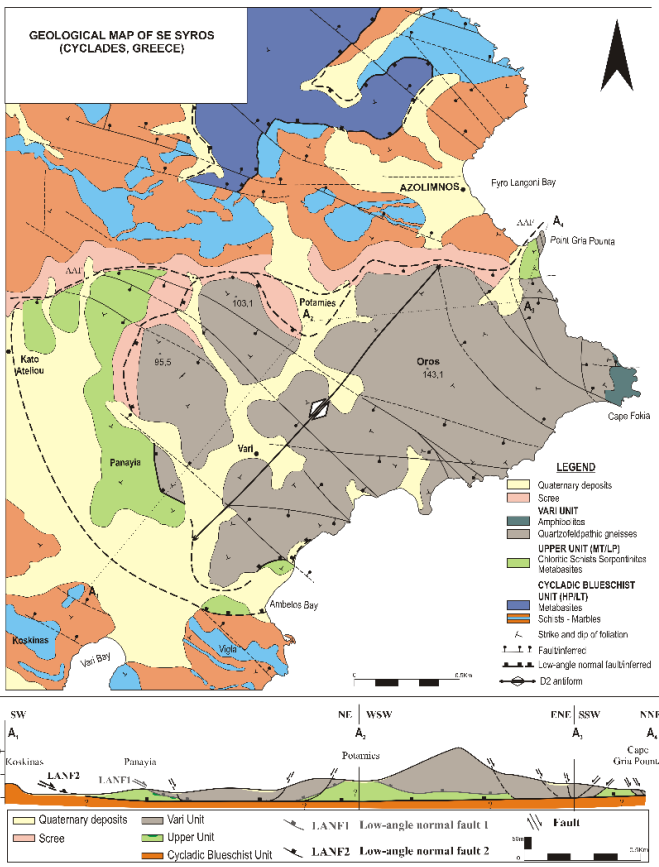
A reconstruction of the Cycladic Blueschist Domain (Cyclades, Greece)



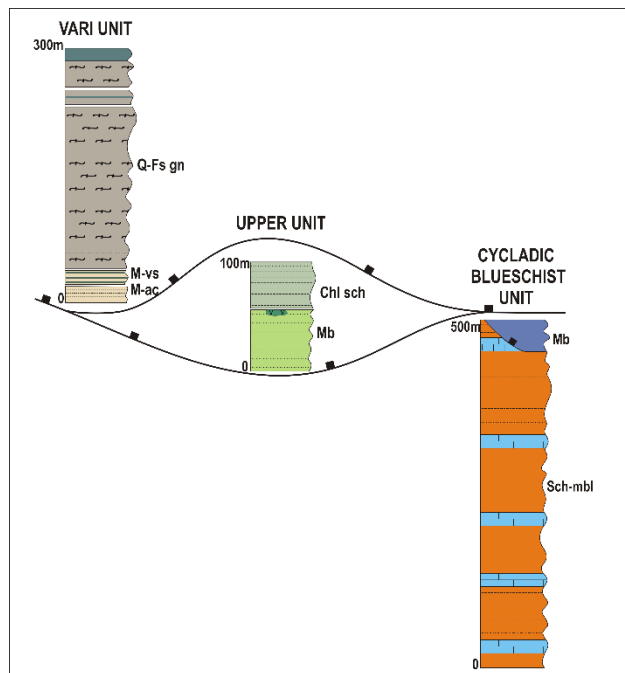
- Granitic intrusions in the Pelagonian domain => Vari Unit in Syros Island (Tomascheck et al., 2000)
- Granitoid rocks or blocks in the CBU domain => Attica, Andros Island, Sikinos Island, Naxos Island, Samos Island, (Ring et al., 1999; Pe-Piper and Piper 2002; Brocker and Pidgeon 2007; Liati et al., 2013; Poulaki et al., 2019)
- Granitic intrusions in the Cycladic Basement => Ios Island (Flansburg et al., 2019)
- Quartzofeldspathic rocks in the CBU domain (Pe-Piper et al., 2002)



A reconstruction of the Cycladic Blueschist Domain (Cyclades, Greece)



Vari Unit



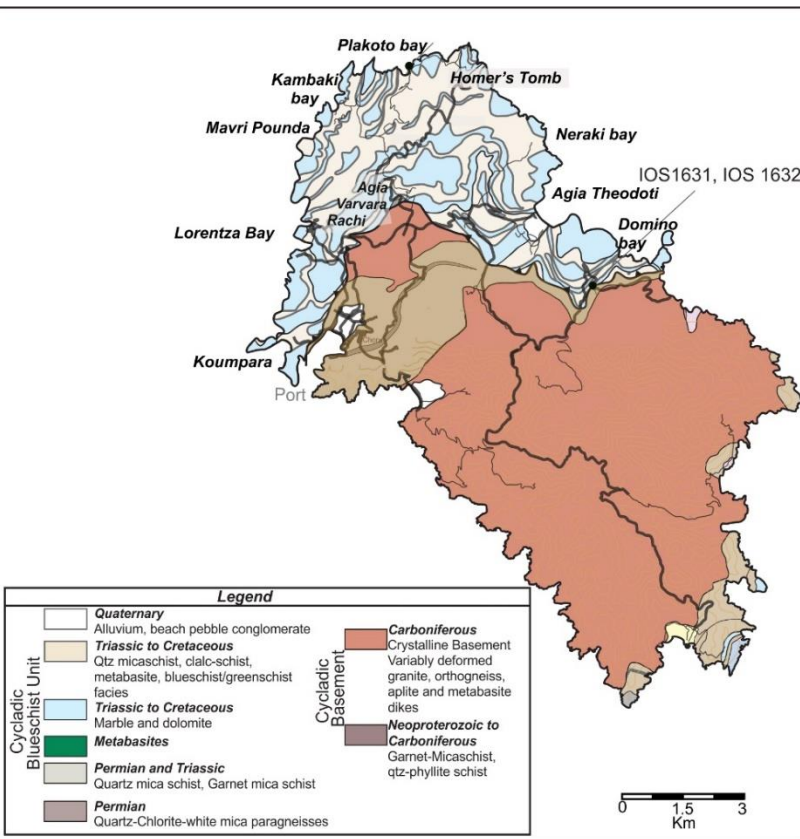
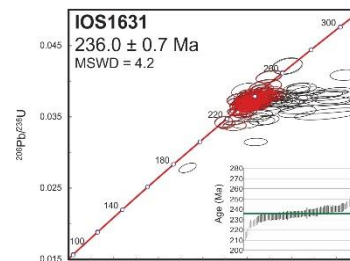
A Triassic Granitoid intruded into a metavolcaniclastic sequence
(Tomascheck et al 2000)



A reconstruction of the Cycladic Blueschist Domain (Cyclades, Greece)

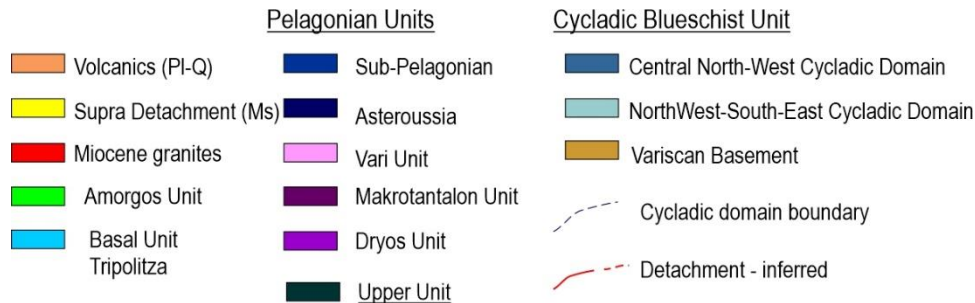
Ios Islands

Triassic Biotite
granite intruded
into the basement





A reconstruction of the Cycladic Blueschist Domain (Cyclades, Greece)



NW and South-East continental domains
Central-North-West pelagic domain

Miocene rotations must be resolved in order to
conclude about NW and South-East sub domains

TCT perpendicular to sub-domains

