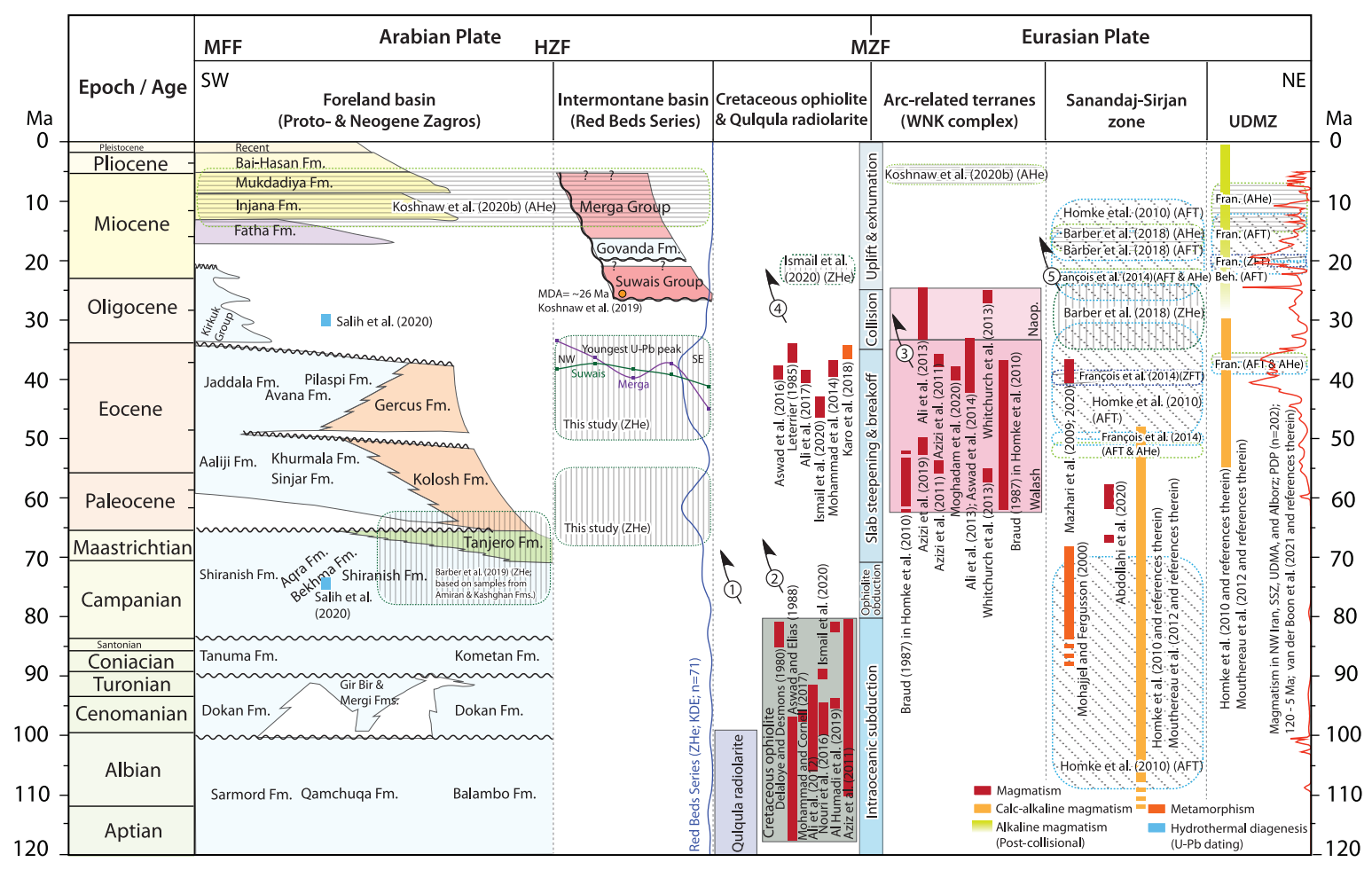
MFF
Arabian Plate
HZF
MZF
Eurasian Plate
Epoch / Age
SW
NE
Ma
Foreland basin (Proto- & Neogene Zagros)
Intermontane basin (Red Beds Series)
Cretaceous ophiolite & Qulqula radiolarite
Arc-related terranes (WNK complex)
Sanandaj-Sirjan zone
UDMZ
Pleistocene
Pliocene
Miocene
Oligocene
Eocene
Paleocene
Maastrichtian
Campanian
Santonian
Coniacian
Turonian
Cenomanian
Albian
Aptian
Recent
Bai-Hasan Fm.
Mukdadiya Fm.
Injana Fm.
Fatha Fm.
Koshnaw et al. (2020b) (AHe)
Kirkuk Group
Salih et al. (2020)
Jaddala Fm.
Avana Fm.
Pilaspi Fm.
Gercus Fm.
Aaliji Fm.
Khurmala Fm.
Sinjar Fm.
Kolosh Fm.
Tanjero Fm.
Shiranish Fm.
Aqra Fm.
Bekhme Fm.
Shiranish Fm.
Salih et al. (2020)
Barber et al. (2019) (ZHe based on samples from Amiran & Kashghan Fms.)
Tanuma Fm.
Kometan Fm.
Gir Bir & Mergi Fms.
Dokan Fm.
Dokan Fm.
Sarmord Fm.
Qamchuqa Fm.
Balambo Fm.
Merga Group
Govanda Fm.
Suwais Group
MDA= ~26 Ma
Koshnaw et al. (2019)
Youngest U-Pb peak
NW
SE
Suwais
Merga
This study (ZHe)
This study (ZHe)
Red Beds Series (ZHe; KDE; n=71)
Qulqula radiolarite
Ismail et al. (2020) (ZHe)
4
Aswad et al. (2016)
Leterrier (1985)
Ali et al. (2017)
Ismail et al. (2020)
Mohammad et al. (2014)
Karo et al. (2018)
1
2
Aswad and Elias (1988)
Ismail et al. (2020)
Cretaceous ophiolite
Delaloye and Desmons (1980)
Mohammad and Cornell (2017)
Ali et al. (2012)
Nouri et al. (2016)
Al Humadi et al. (2019)
Aziz et al. (2011)
Uplift & exhumation
Collision
Slab steepening & breakoff
Ophiolite obduction
Intraoceanic subduction
Koshnaw et al. (2020b) (AHe)
3
Ali et al. (2013)
Azizi et al. (2019)
Azizi et al. (2011)
Azizi et al. (2011)
Moghadam et al. (2020)
Ali et al. (2013); Aswad et al. (2014)
Whitchurch et al. (2013)
Whitchurch et al. (2013)
Braud (1987) in Homke et al. (2010)
Braud (1987) in Homke et al. (2010)
Naop.
Walash
Homke et al. (2010) (AFT)
Barber et al. (2018) (AHe)
Barber et al. (2018) (AFT)
5
François et al. (2014)(AFT & AHe)
Barber et al. (2018) (ZHe)
François et al. (2014)(ZFT)
Homke et al. (2010) (AFT)
François et al. (2014) (AFT & AHe)
Mazhari et al. (2009; 2020)
Abdollahi et al. (2020)
Mohajjel and Fergusson (2000)
Homke et al. (2010 and references therein)
Mouthereau et al. (2012 and references therein)
Homke et al. (2010) (AFT)
Fran. (AHe)
Fran. (AFT)
Fran. (ZFT)
Beh. (AFT)
Fran. (AFT & AHe)
Homke et al. (2010 and references therein)
Mouthereau et al. (2012 and references therein)
Magmatism in NW Iran, SSZ, UDMA, and Alborz; PDP (n=202); 120 - 5 Ma; van der Boon et al. (2021 and references therein)
Magmatism
Calc-alkaline magmatism
Alkaline magmatism (Post-collisional)
Metamorphism
Hydrothermal diagenesis (U-Pb dating)