
The Aegean Plate Tectonic Evolution In Mediterranean

the aegean: plate tectonic evolution in mediterranean - the aegean: plate tectonic evolution in mediterranean written by: martin reith field course "naxos" in september 2014, group b abstract the mediterranean sea, as known today, resulted from various geological processes starting in the **tectonics of the aegean/anatolian region** - jackson (1994) describes two dominant plate motions in the aegean/anatolian region: the westward motion of the anatolian plate and the southwestern motion of the aegean plate, both relative to eurasia (see figure 1). the anatolian plate is moving figure 1: plate motion in the aegean/anatolian region (jackson 1994). **2. geology and tectonics of the aegean** - chapter 2. geology and tectonics of the aegean the aegean is also situated in the convergent boundary between the african plate and eurasian plate (fig. 2.1). the crustal and mantle structures of the aegean are the result of a complex history that started probably during the late cretaceous (e.g. mckenzie, 1972). **greek tectonics and seismicity - geothermics** - fig. 3. mckenzie's models for the aegean. a. the "aegean plate" and other plate boundaries in the aegean area from seismicity and fault plane solutions, after mckenzie (1972). b. improved summary of deformation of the aegean area, after mckenzie (1978). long curved lines = normal faults; lines with **aegean tectonics: strain localisation, slab tearing and ...** - north anatolian fault penetrated the aegean sea. through time the direction and style of extension have not changed significantly except in terms of localisation. the contributions of progressive slab retreat and tearing, basal drag, extrusion tectonics and tectonic inheritance are discussed and we favour a model **fault plane solutions in the aegean sea and the ...** - re (front part of the african plate), and postienlarly to overthrusting of the aegean plate onto the eastern mediterranean lithosphere. the third belt is a very wide tensional one and covers most of the aegean sea and parts of the adjacent lands (eastern mainland and northern greece, western turkey, southern bulgaria, southern former yugoslavia). **global positioning system constraints on plate kinematics ...** - plate i is a schematic tectonic map of the eastern mediterranean/middle east region. this region has been identified as an ideal natural laboratory for study- ing the kinematics and dynamics of plate interactions [e.g., plag et al., 1998] because of the wide variety of tectonic processes encompassed, including various **tectonic plates - california institute of technology** - tectonic plates plate boundary - referenced from bird, peter (2003) an updated digital model of plate boundaries. (orogen boundaries omitted.) plate convergence vectors - referenced from united states geological survey: convergence data are shown by arrows describing direction and speed, relative to the plate across the boundary. **seafloor age - tectonics observatory at caltech** - plate futuna plate scotia plate aegean sea plate anatolia plate yangtze plate burma plate ... australia plate eurasia plate south america plate nazca plate pacific plate eurasia plate north america plate nubia plate seafloor age plate boundary - referenced from bird, peter (2003) an updated digital model of ... this map builds on the tectonic ... **reinjection of the co2 into the reservoirs of the ...** - the tectonic position of the eastern mediterranean area between the eurasian and african plates is controlled by the anatolian and aegean micro plates. the plate tectonic development results in the uplift of the menderes massif showing a dome shaped structure due **new constraints on the active tectonic deformation of the ...** - the aegean region to understand the implications of plate tectonics for continental deformation. studies done in the 20 years following acceptance of the plate tectonic theory have used seismologic data, active fault distributions, and seafloor bathymetry to define the major tectonic boundaries of the aegean and infer the magnitude and sense of ... **aegean and black sea 2006 expedition** - aegean and black sea 2006 - grades 9-12 (earth science) focus: volcanic processes at convergent and divergent tectonic plate boundaries the hellenic, turkish, arabian, and van plates). boundaries between these plates are not always clear, but motion at plate boundaries is undoubt-edly responsible for earthquakes and volcanoes throughout the ... **aegean earthquakes, tsunamis and the kykladic frying pans.** - aegean earthquakes, tsunamis and the kykladic frying pans. 1. introduction . primarily due to plate tectonics, the aegean region is one of the places on earth most prone to seismic phenomena. the small aegean tectonic plate, carrying crete, most of the aegean sea **review: geophysics subduction and slab detachment in the ...** - subduction and slab detachment in the mediterranean-carpethian region ... acting as the primary plate tectonic process, several regions exhibit large-scale extension, such as the alboran sea, the algero-proven-c, al and tyrrhenian sea basins, the pannonian basin, and the aegean region. these are lo-cated inside the arcuate belts (fig. 1). the **towards absolute plate motions constrained by lower-mantle ...** - and plate tectonic evolution8 16. this, however, has not led to strong constraints on absolute plate motion. recently, correlations between deep, presumably hot and dense mantle heterogeneities at the core mantle boundary and large igneous provinces were obtained from a plate reconstruction3,4, leading to possible **tectonic deformations in greece and the operation of hepos ...** - 1 existing knowledge on tectonic activity in greece greece lies in the boundary region between two major tectonic plates, the eurasian and the african plate (figure 1). in addition, the southern part of greece lies on the aegean plate, a smaller plate which is moving southwest (papazachos et al., 2000). this situation leads to a **adriatic-aegean plate boundary inferred from** - adriatic-aegean plate boundary zone inferred from continuous gps-measurements ... clearly non-tectonic discontinuities due to hardware changes were estimated and corrected, increasing the ... the inter-seismic motion of the aegean block was interrupted by the strofades

earthquake (ms 6.1, nov. 18. 1997) ... **zircon in amphibolites from naxos, aegean sea, greece ...** - tectonic setting the hellenides in the eastern mediterranean form an arcuate orogen to the north of the present-day active margin (fig. 1), which marks the site of northeast-ward subduction of the african plate beneath eura-sia. the hellenides can be subdivided from top fig. 1. tectonic map of the aegean region showing main tectonic zones above ... **hydrogeological, hydrogeochemical and isotope geochemical ...** - aegean micro plates. this plate-tectonic development results in the lifting of the menderes massif due to compressional tectonic features of the middle miocene. from the tortonian to pleistocene, the continental rift zones in the menderes massif were formed because of extensional tectonic features. **maximum earthquake magnitudes in the aegean area ...** - maximum earthquake magnitudes in the aegean area constrained by tectonic moment release rates g. ch. koravos, 1i. g. main, 2 t. m. tsapanos and r. m. w. musson 3 1aristotle university of thessaloniki, school of geology, geophysical laboratory, 54006 thessaloniki, greece

paleomagnetism and the tectonic evolution of the ionian ... - zone between anatolian westward extrusion and southern aegean extension. overall, the result is a pattern of thin-skinned, westward-decreasing clockwise rotations dis-torted by superimposed thick-skinned rotations resulting from the complex interplay of plate motions in the eastern mediterranean. **tectonic escape mechanism in the crustal evolution of ...** - tectonic escape mechanism in the crustal evolution of eastern anatolian region (turkey) 291 although this rift appears to act, at least in part, as a transfer structure between some of the outer thrust of the arabian foreland sedimentary sequence. fig. 1. simplified geological map of the east ern anatolian region (fr om elitok and dolmaz, **syn-extensional granitoids in the menderes core complex ...** - fig.1. tectonic map of the aegean and eastern mediterranean region, showing the main plate boundaries, major suture zones and fault systems. thick, white arrows depict the direction and magnitude (mm a21) of plate convergence; grey arrows mark the direction of extension (miocene-recent). orange and purple colours delineate eurasian and african **3 tectonics and seismicity of marmara region** - 3 tectonics and seismicity of marmara region 3.1 tectonics ketin (1973) initiated the first studies on the tectonic evolution of turkey with his finding on the westward movement of the north anatolian fault following the great erzincan earthquake in 1939. his studies were later followed up and expanded by the next generation of turkish earth **lab01 plate tectonic map - uw oceanography** - lab 1. plate tectonic summary map in this lab we are going to work with a set of maps of global elevation and earthquakes in order to get a basic understanding of the surface features created by plate tectonics. throughout the remainder of the class, we will look at some of features in more detail. **an application on structural data from metamorphic rocks ...** - 2. tectonic setting and geology of santorini one of the most prominent tectonic features of the south aegean is the hellenic arc, which con-sists of the forearc (peloponnese, kythera, crete, karpathos and rhodes) and an inner volcanic arc (attiki, methana, milos, santorini, nisiros, kos). both arcs are related to subduction of the afri- **plate tectonic framework and gps-derived strain-rate ...** - plate tectonic framework and gps-derived strain-rate field within the boundary zones of the eurasian and african plates ... plate. the boundaries of the anatolian/aegean plates are characterized by large strain rates due to rapid w-sw oriented movement that reaches 35 mm/y. **age, tectonic setting and quality distribution of the ...** - sw-motion of the aegean plate from the late miocene to the present day. figure 1. present-day tectonic setting of the aegean extensional province and related graben systems (yağmurlu, 2000) figure 2. geological setting of the neogene basins of western anatolia and location of the main lignite deposits (modifi ed from helvacı & yağmurlu ... **aegean tectonics: strain localisation, slab tearing and ...** - aegean tectonics: strain localisation, slab tearing and trench retreat laurent jolivet, claudio faccenna, benjamin huet, loïc labrousse, laetitia le pourhiet, olivier lacombe, emmanuel lecomte, evguenii burov, yoann den`ele, jean-pierre brun, m`elody philippon, anne paul, gwena`elle sala`un, **tectonic evolution of naxos (aegean sea g** - southward crustal extension of the aegean tectonic plate since the oligocene (25 ma) peaked with the exhu-mation of a metamorphic core complex in miocene ages (20-16 ma). the permanent southward roll-back of the hellenic subduction zone induced this second phase of deformation (d 2) controlled by extensional tecton-ics in the back-arc area. **tectonics of the syros blueschists (cyclades, greece ...** - (a) general map of the cyclades, showing the different lithologies outcropping in the aegean sea: the cycladic blueschists unit is in the strict sense composed of the adria plate sedimentary cover ... **seismotectonic features of aegean-peloponnisos plate and ...** - aegean region has been subjected to active n-s extensional tectonics, under the control of the westward movement of the anatolia plate bounded by the north anatolian and east anatolian faults. the last measurements in and around turkey reveal a **seismicity and active tectonics at coloumbo reef (aegean ...** - one of the most prominent tectonic features of the southern aegean sea is the hellenic arc, which consists of the forearc (kythera, crete, karpathos and rhodes) and the inner volcanic arc. african oceanic lithosphere — the northern part of the african plate — is subducting under the continental aegean lithosphere with an **delaware univ newark dept of geology a geological ...** - figure 2. a plate tectonic analysis of the aegean sea and adjacent regions showing the lines of collision of major blocks of the earth's crust and their relationship to anatolia (flemming, 1978). __a-5-physiographic scarp under the sea into the gukurova plain and **lab01 plate tectonic map - uw oceanography** - your goal is to generate a tectonic summary of one map but you should take time to look at all the maps (quite useful when you are trying to understand features on the edge of your map). the goals of the exercise are to learn to

read the maps, use them to create a summary map of plate boundaries; and identify any interesting plate tectonic ... **article in press - géosciences montpellier** - today with gps. this change in tectonic configuration may account for the clear geologic evidence for crustal thinning throughout the seaean in apparent contradiction with low present-day strain rates. we further show that the low present-day strain rate along the southern edge of the aegean micro-plate requires **support for plate tectonics and catastrophic plate ...** - support for plate tectonics and catastrophic plate tectonics missing from hawaiian hotspot track by carl r. froede jr., p.g. ... hotspots in plate tectonic theory one very important uniformitarian ... flowed into the mediterranean-aegean sea allowing the development of stratified two-way flow through the bosporus strait. the denser **petrography and geochemistry of the late eocene-early ...** - the strike-slip boundary between the aegean and the eurasian plates (the north aegean transform zone) consists of two major strike-slip faults, which are extensions of the north anatolian fault. convergence between the eurasian figure 1. plate tectonic configuration of the area around the aegean sea (from papazachos et al. 1998). **donald d. harrington symposium on the geology of the ...** - donald d. harrington symposium on the geology of the aegean—april 28-30, 2008 ... dynamic tectonic processes within the aegean, which covered large-scale plate tectonic extension, ... **cenozoic tectonic evolution of asia: a preliminary synthesis** - cenozoic tectonic evolution of asia: a preliminary synthesis ... relatively well-understood plate boundary conditions in the cenozoic, exceptional exposure of active structures, and strain distribution, and widespread syn-collisional igneous activity as a proxy for the thermal ... extension across the sea of crete and sea of aegean. the late ... **pn tomographic imaging of mantle lid velocity and ...** - in the southern aegean, north of crete (angelier et al. 1982; jackson 1994). present-day extension occurring on the northern aegean extending to ~310 e within the anatolian plate (angelier et al. 1982) is believed to be associated with the retreating subduction of the african oceanic lithosphere (eastern mediterranean) beneath the hellenic arc ... **magmatism at convergent plate boundaries** - convergent plate boundaries, one of the three main types of plate tectonic boundaries, the others being divergent and transform plate boundaries. there are 55,000 km of convergent plate boundaries on earth (fig. 2; lallemand, 1999). subduction zones were first recognized by dipping arrays of earthquakes, **active tectonics of the north and central aegean sea** - african plates, central turkey, and the southern aegean sea, relative to europe. the dashed line in the north aegean is not a plate boundary: it joins the end of the north anatolian fault (naf) to the northern end of the hellenic trench (shown as a thrust), and emphasizes that the westward motion of turkey is **internal forces main ideas - tdahlberg.weebly** - the position of the tectonic plates in the map below. african plate caribbean plate cocos plate nazca plate north american plate pacific plate juan de fuca plate philippine plate south american plate scotia plate indo-australian plate eurasian plate arabian plate iran plate turkish-aegean plate antarctic plate mid-atlanti ... **active stress field of the southern aegean subduction area ...** - le pichon and angelier, 1979). the most prominent tectonic features of the area are the hellenic trench and the inner volcanic arc (fig.1). the south aegean active deformation is driven primarily by the fast moving (~35 mm/yr) aegean upper plate, which overrides a nearly stalled (~5 mm/yr), **neogene young neogene tectonics and relief development on ...** - 7. discussion of the tectonic and geomorphic evolution 122 8. conclusions 125 9. acknowledgements 125 references 125 abstract neogene tectonics and topographic relief of the attic-cycladic composite unit (accu) have evolved in a geotectonic setting behind the hellenic convergent plate boundary. **structure/tectonics: paleo- and neo-, faults & basins** - for the tectonic evolution of north central anatolia. tectonics, 30, tc1008. Çinku, m.c., and orbay, n. (2010) the origin of neogene tectonic rotations in the galatean volcanic massif, central anatolia. international journal of earth sciences, 99, 413-426. clark, m., and robertson, a. (2005) uppermost cretaceous-lower tertiary ulukı la basin, **geosphere subduction termination through progressive slab ...** - the modern tectonic regime in western anatolia is controlled by subduction along the aegean trench. since at least 35–30 ma, the aegean trench eap cap c af z cavp dsf z bitlis-r o s e y p rean r ench e g e an r ench es am plin y r ansform nafz eafz iz t a o m african plate black sea aegean sea eurasian plate eurasian plate arabian plate ... **international journal of geology issue 2, volume 3, 2009 ...** - an investigation of seismicity for the aegean and mediterranean regions nilgün sayil karadeniz technical university, the faculty of engineering, department of geophysical engineering, tr-61080, trabzon, ... plate tectonic models and geology of the region. all ... plate moves northward, and forces the smaller anatolian ...

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