



Supplemental Figure 8: Geological sketch map of rock units in part of Insular Alaska showing distribution of Gravina basin strata, post-collisional plutons, and various terranes (mainly after Gehrels and Berg (1992)). Stratigraphic column of western facies of rocks from Gravina basin and detrital zircon data from Kapp and Gehrels (1998) and Yokelson et al. (2015); geochemistry of Moth Bay pluton (MB) from Cook et al. (1991). Note that rocks of the Treadwell Fm. are younger than 105 Ma as they unconformably overlie the Jualin diorite (Redman, 1984; Kapp and Gehrels, 1998). E–eastern facies of Gravina basin; G–Gravina Island; RI–Revillagigedo Island