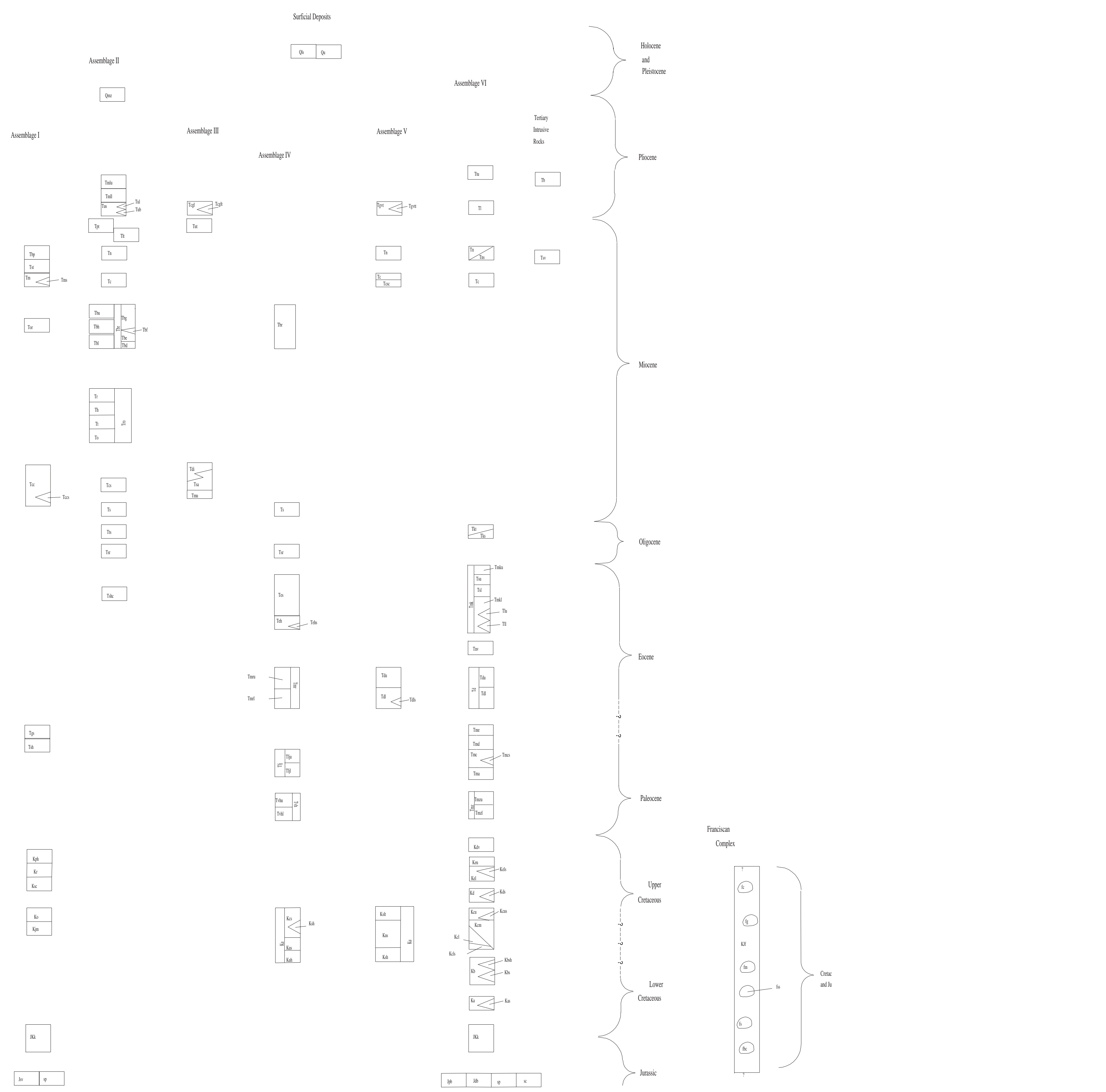
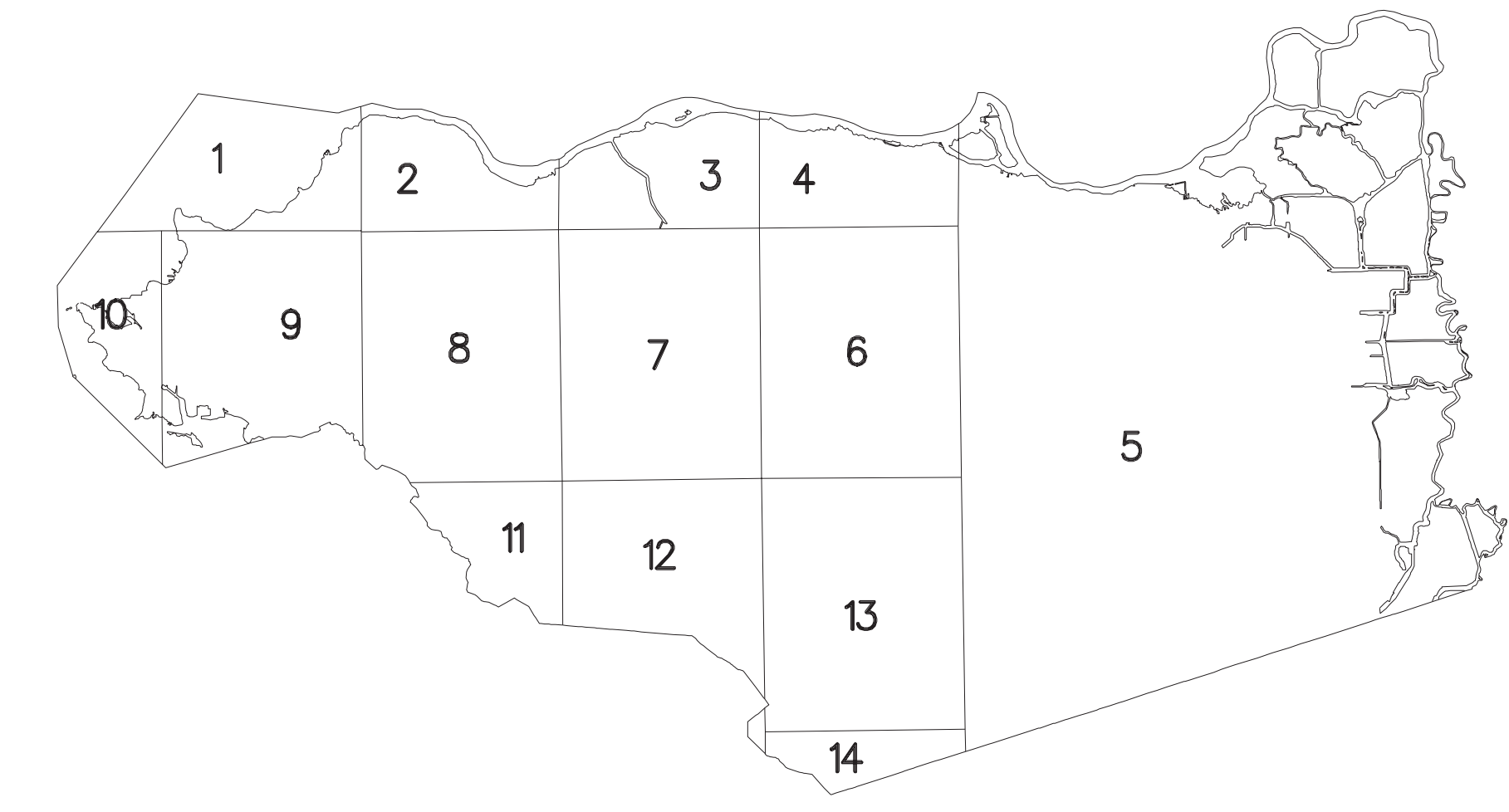


CORRELATION OF MAP UNITS

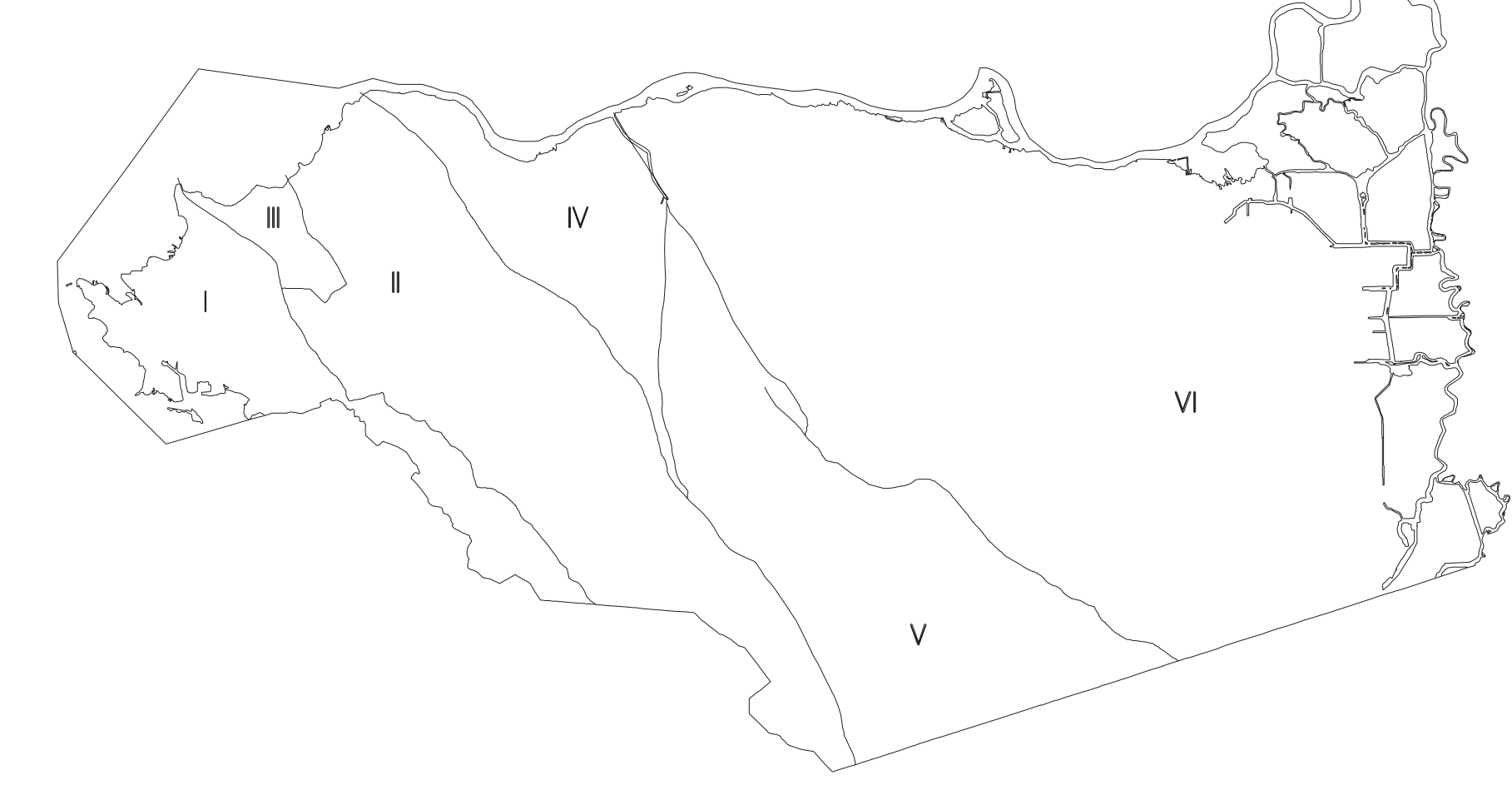


MAP EXPLANATION

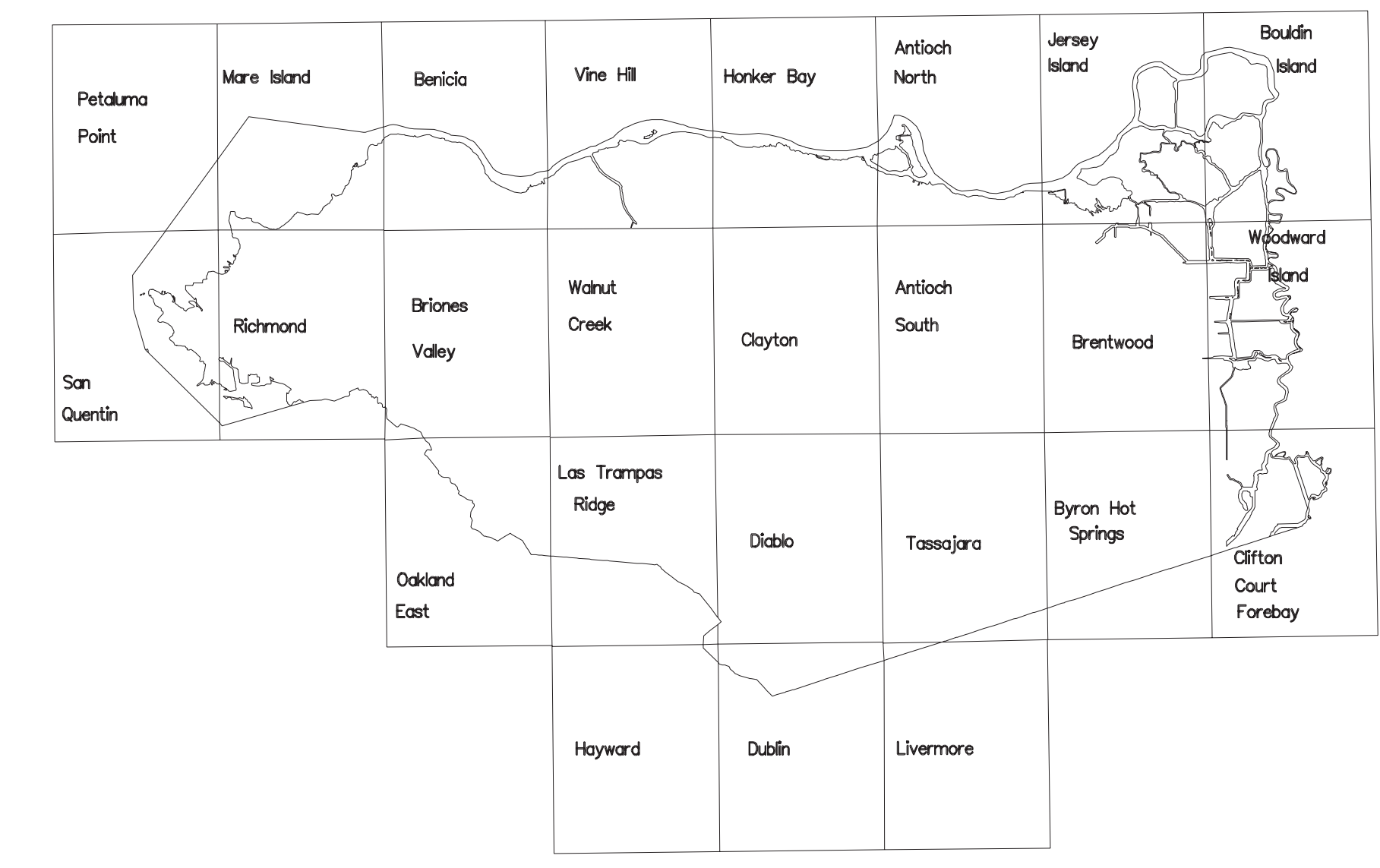
- Surficial Deposits**
- Qu - Undivided Quaternary deposits
  - Qa - Landslide deposits
  - Tertiary Intrusive Rocks
  - Tev - Siliceous Intrusive rocks
  - Tb - Basaltic Intrusive rocks
  - Franciscan Complex
  - KM - Undivided Franciscan rocks
  - fac - basalt and chert
  - fm - melange
  - fc - chert
  - fg - gneiss
  - fs - greywacke
  - fas - sandstone and shale
  - Assemblage I
  - Tbp - Bald Peak volcanics
  - Tst - Sierra Formation - siltstone and sandstone
  - Tm - Maraga volcanics
  - Tms - Maraga volcanics, sedimentary interbeds
  - Tor - Orinda Formation - conglomerate, sandstone, and siltstone
  - Toc - Claremont Chert
  - Tca - Claremont Chert, sandstone interbeds
  - Tps - Unnamed sandstone
  - Tsh - Unnamed shale
  - Kph - Pinehurst shale
  - Kr - Redwood Canyon Formation - sandstone
  - Ksc - Shepard Creek Formation - shale
  - Ko - Oakland conglomerate
  - Kjm - Juanín Miller Formation - shale
  - Jk - Knoxville Formation - shale and sandstone
  - Coast Range Ophiolite
  - Jv - Karstophyre
  - sp - Serpentinite
  - Assemblage II
  - Qmz - Montezuma Formation - sand, clay and gravel
  - Trk - Multicolored Formation - upper member
  - Trl - Multicolored Formation - lower member
  - Tul - Unnamed sedimentary and volcanic rocks
  - Tu - Limestone member
  - Tub - Basalt member
  - Tpt - Pinedale tuff
  - TL - Lafayette tuff
  - Tn - Neroly Formation - blue sandstone
  - Tc - Clebo Formation - sandstone
  - Tbr - Briones Formation, undivided in the southern part
  - Tb - Briones Formation, G member - sandstone and shell breccia
  - Tf - Briones Formation, F member - sandstone and shale
  - Tg - Briones Formation, E member - sandstone and shell breccia
  - Td - Briones Formation, D member - massive sandstone
  - In the northern part, Tbr divided locally into:
    - Tbu - Upper Briones Formation - sandstone
    - Tbh - Briones Formation, Hercules shale member
    - Tbl - Lower Briones Formation - sandstone
  - Tro - Rodero, Hartono, Tico, and Carrazo, undivided
  - Tr - Rodero shale
  - Th - Hambro sandstone
  - Tt - Tice shale
  - To - Oursan sandstone
  - Tca - Claremont shale
  - Ta - Sobrarbe sandstone
  - Tts - Tuffaceous sandstone
  - Tar - San Ramon Formation
  - Tahc - Shale and claystone
  - Assemblage III
  - Tog - Conglomerate, sandstone, and siltstone
  - TogI - Tuff interbed
  - Tut - Unnamed tuff
  - Td - Diatomite
  - Tso - Sandstone
  - Tmu - Mudstone
  - Assemblage IV
  - Tbr - Briones Sandstone
  - Ts - Sobrarbe Sandstone
  - Tar - San Ramon Formation - sandstone and conglomerate
  - Tes - Escobar Sandstone
  - Teh - Escobar Sandstone, basal shale member
  - Tmr - Mir Sandstone
  - Tmu - Upper Mir Sandstone
  - Tml - Lower Mir Sandstone - claystone member
  - Tj - Las Juntas Shale
  - Tju - Upper Las Juntas Shale
  - Tjl - Lower Las Juntas Shale - sandstone member
  - Tvh - Vine Hill Sandstone
  - Tvu - Upper Vine Hill Sandstone
  - Tvl - Lower Vine Hill Sandstone - glauconitic sandstone
  - Great Valley Sequence
  - Ku - Great Valley sequence undivided - sandstone and siltstone
  - Kis - Unnamed quartz arenite
  - Kah - Unnamed siltstone and shale
  - Kus - Unnamed sandstone
  - Kuh - Unnamed massive sandstone
  - Assemblage V
  - Tgrt - Green Valley/Tasejara group
  - Tgrt-Green Valley/Tasejara group Luff member
  - Tn - Neroly Formation
  - Tc - Clebo Formation
  - Tas - Clebo Formation, sandstone and conglomerate member
  - Tau - Upper Domingene Formation
  - Td - Lower Domingene Formation
  - Tds - Lower Domingene Formation, sandstone member
  - Ku - Undivided Great Valley Sequence - siltstone and shale
  - Kat - Unnamed siltstone
  - Kus - Unnamed sandstone and shale
  - Kah - Unnamed shale
  - Assemblage VI
  - Ttu - Tule Formation
  - Tl - Lower tuff
  - Tn - Neroly Sandstone
  - Tre - Neroly Formation, siltstone beds
  - Tc - Clebo Sandstone
  - Tkt - Kiker Tuff
  - Tka - Kiker Tuff, sandstone beds
  - Tmk - Markey Formation
  - Tmk - Markey Formation, upper member
  - Taj - Markey Formation, upper Signey Flat Shale member
  - Tal - Markey Formation, lower Signey Flat Shale member
  - Tml - Markey Formation, lower member
  - Tu - Markey Formation, lower member, upper siltstone beds
  - Tl - Markey Formation, lower member, lower siltstone beds
  - Tnv - Nortonville Shale
  - Td - Domingene Formation
  - Tdu - Upper Domingene Formation
  - Tdl - Lower Domingene Formation
  - Tds - Lower Domingene Formation, sandstone beds
  - Tme - Megano Formation, upper member
  - Tms - Megano Formation, sandstone member
  - Tmc - Megano Formation, shale member
  - Tms - Megano Formation, shale member, sandstone interbeds
  - Tms - Megano Formation, lower member
  - Tmu - Upper Martinez Formation
  - Tml - Lower Martinez Formation
  - Great Valley Sequence
  - Kah - Deer Valley Sandstone of Colburn (1969)
  - Kau - Upper Unit E - siltstone
  - Kal - Lower Unit E - siltstone member
  - Kale - Lower Unit E, sandstone member
  - Kid - Unit D - sandstone
  - Kid - Unit D, shale member
  - Kou - Upper Unit C - shale
  - Kou - Upper Unit C - shale member
  - Kou - Upper Unit C, sandstone member
  - Kom - Middle Unit C - sandstone
  - Kid - Lower Unit C - shale
  - Kid - Lower Unit C, sandstone member
  - Kb - Unit B - sandstone and shale
  - Ksh - Unit B, shale member
  - Kis - Unit B, sandstone member
  - Ka - Unit A - shale
  - Kis - Unit A, sandstone member
  - Jk - Knoxville Formation
  - Coast Range Ophiolite
  - Jpb - Pillow basalt
  - Jdb - Diabase
  - sc - Siliceous Carbonate rock
  - sp - Serpentinite
  - Contact
  - Contact, approximately located
  - Contact, inferred
  - Contact, uncertain
  - Contact, concealed
  - Fault
  - Fault, approximately located
  - Fault, inferred
  - Fault, uncertain
  - Fault, concealed
  - Fault, concealed and uncertain
  - Thrust or reverse fault
  - Thrust or reverse fault, approximately located
  - Thrust or reverse fault, inferred
  - Thrust or reverse fault, uncertain
  - Thrust or reverse fault, concealed and uncertain
  - Fold axis
  - Fold axis, inferred
  - Fold axis, concealed
  - Strike and dip of bedding
  - Strike and dip of bedding, inferred
  - Strike of vertical bedding



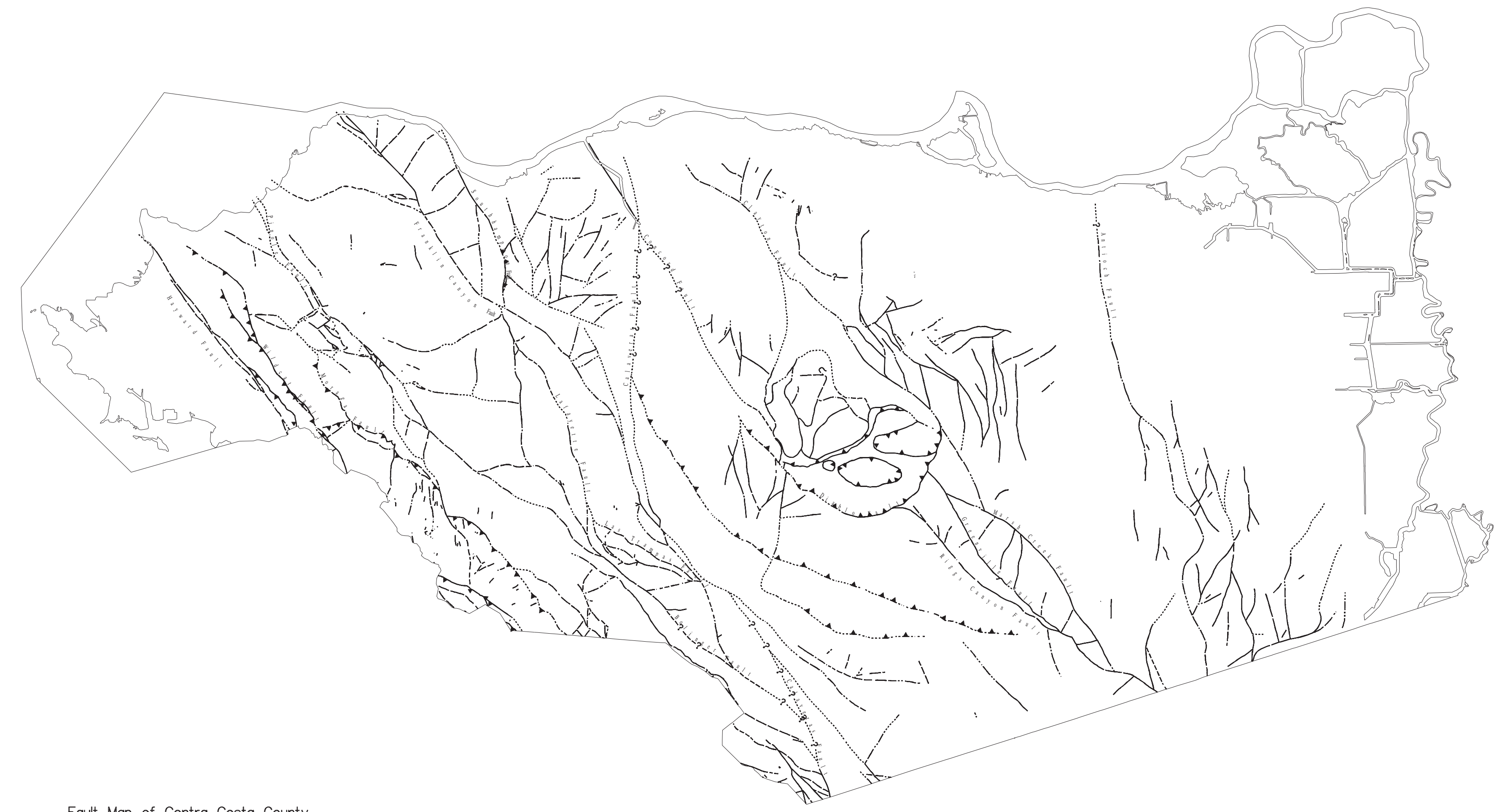
Index Map for Sources of Data (see ccsources.txt)



Stratigraphic Assemblages in Contra Costa County (see ccage.txt)



7.5 Minute Quadrangles in Contra Costa County



Fault Map of Contra Costa County