Geologic map of the Atacama and Taltal Fault Systems, Northern Chile

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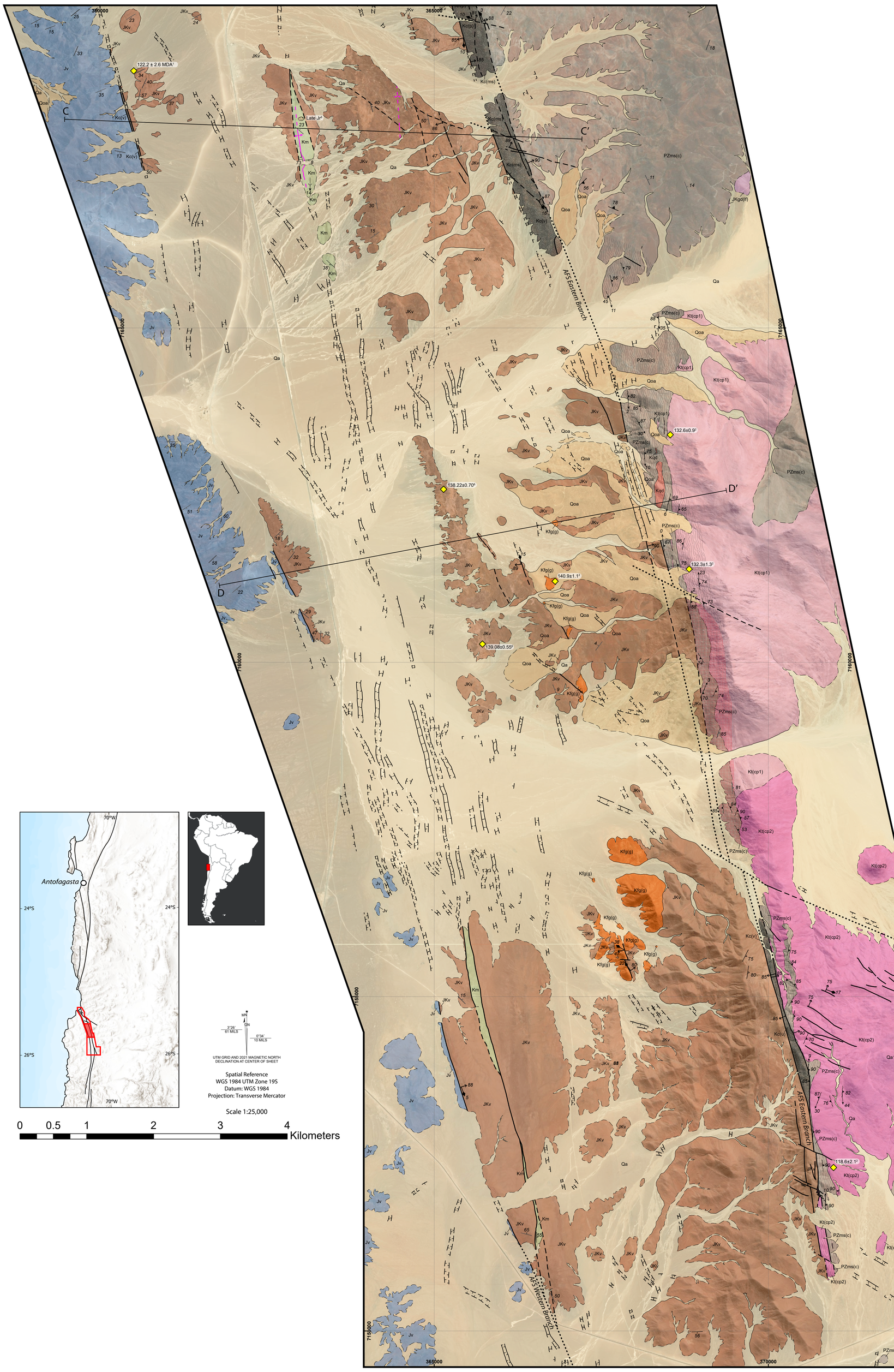


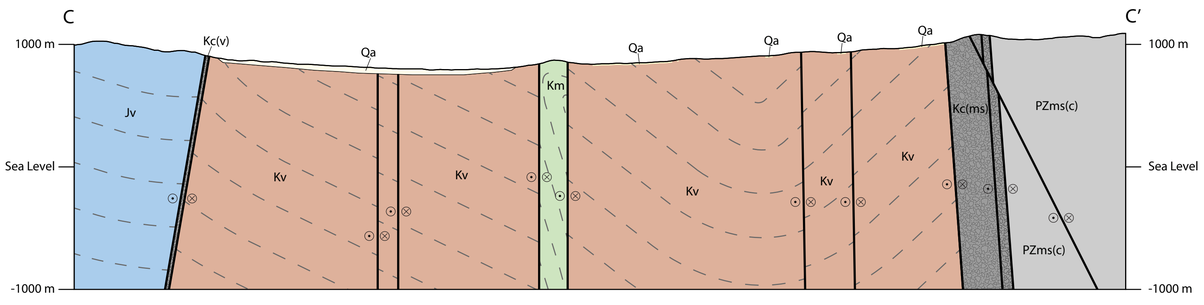
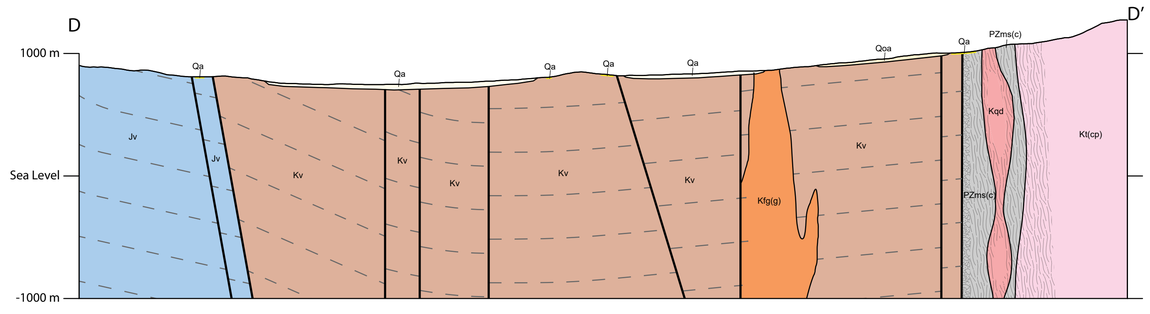
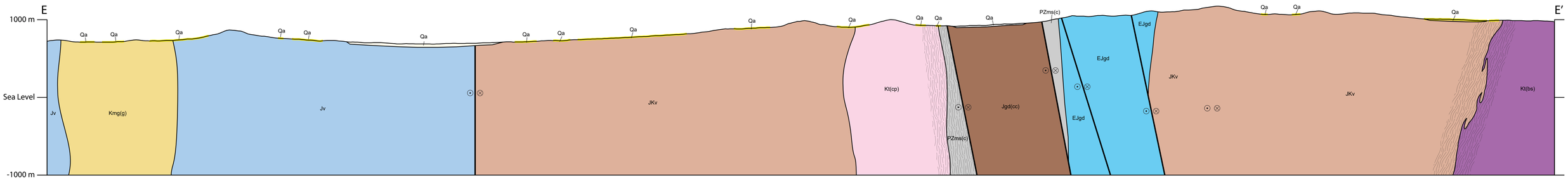
Geologic units

- ml - Modified land
- Qa - Alluvium (Pleistocene to Holocene)
- Qoa - Older alluvium (Miocene to Pleistocene)
- Kd - Andesitic Dike (~110 Ma)
- Kc(u) - Cataclasite, undivided
- Kc(p) - Cataclasite, plutonic protolith
- Kc(v) - Cataclasite, volcanic protolith
- Kc(ms) - Cataclasite, metasedimentary protolith
- Kt(bs) - Barreal Seco tonalite (~125-121 Ma)
- Kt(cp2) - Cerro del Pingo tonalite (~120–119 Ma)
- Kt(cp1) - Cerro del Pingo tonalite (~134–132 Ma)
- Kgd(lt) - Las Tipias granodiorite (~130 Ma)
- Kgd - Cretaceous granodiorite (140 Ma)
- Kqd - Quartz diorite (Early Cretaceous ?)
- Kr(g) - Goyenchea rhyolite (145–140 Ma)
- Kfg(g) - Goyenchea fine grained granite (145–140 Ma)
- Kmg(g) - Goyenchea medium grained granite (145–140 Ma)
- Kcg(g) - Goyenchea coarse grained granite (145–140 Ma)
- Km - Aeropuerto Formation bioclastic limestone (Early Cretaceous)
- JKv - Aeropuerto Formation Volcanic and volcaniclastic rocks (~146–122 Ma)
- JKv(r) - Rhyolite flow (146–144 Ma)
- JKgd(lf) - La Finca plutonic complex (149-139 Ma)
- Jgd(q) - Quezada granodiorite (~153-147 Ma)
- Jfg(sr) - Quebrada San Ramon fine-grained granite (~160 Ma)
- Jpg(sr) - Quebrada San Ramon porphyrytic granite (~160 Ma)
- Jgd(m) - Matancilla plutonic complex granodiorite (~169 Ma)
- Jv - La Negra Formation Volcanic and volcaniclastic rocks (Middle Jurassic)
- EJgd - Granodiorite (~189 Ma)
- Jgd(cc) - Cerro Concha granodiorite (~196 Ma)
- Trg(c) - Capitana syenogranite (~215–207 Ma)
- PZms(c) - Chañaral complex metasedimentary rocks (Devonian)
- Alteration zone
- Zone of cataclasite or fault breccia
- Shear or mylonite zone
- Area of discrete shear zones.
- Contact metamorphism zone

[1]This study
[2]Seymour et al. (2021)
[3]Mavor et al. (2021)
[4]Mavor et al. (in prep)
[5]Seymour et al. (2020)
[6]Espinoza et al. (2014)
[7]Escribano et al. (2013)
[8]Las Cenizas (2007) *in* Espinoza et al. (2014)
[9]Las Cenizas (2007) *in* Escribano et al. (2013)

MN
GN
3°26′ 61 MILS
0°34′ 10 MILS
UTM GRID AND 2021 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

Spatial Reference
WGS 1984 UTM Zone 19S
Datum: WGS 1984
Projection: Transverse Mercator

Scale 1:25,000

0 0.5 1 2 3 4 Kilometers