Soil pit description: PR04

Images: PR04_01.jpg, PR04_02.jpg, PR04_03.jpg

Soil class: Lutz Map unit: Lu

Location: 50 m up Donato Trail from Lutz Creek

Site position: Lower midslope

Slope: 20%, irregular, aspect 320⁰

Parent material: Caimito marine sedimentary facies

Forest structure: Closed canopy, moderately dense understory, few palms

Litter: 90% cover, 3 layers, thin +/- continuous root mat

Outcrops: None

Stones: Few coarse (to 1 m) hard boulders

Cracks: Continuous network, up 12 mm wide, partly infilled

Microrelief: Slight micro-gilgai

Faunal activity: Many fine & medium worm casts

Other surface features: None

Horizon [cm]		Samples [cm]
0 - 5	7.5YR 3/3 (dark brown); no mottles; clay loam; weak medium breaking to moderate fine subangular blocky; no cutans; many coarse pores including common worm channels; slightly moist & friable; common fine & medium tree roots; no stones; few fine black ferrimanganiferous concretions; no charcoal; gradual regular boundary to:	[0-5]
5 - 12	5YR 3/3 (dark reddish brown); no mottles; silty clay loam; weak medium breaking to moderate fine subangular blocky & pockets of old ant nest; no cutans; many coarse pores including old ant nest channels; moist & slightly friable; common fine & medium & coarse tree roots; few fine slightly hard grey & orange weathered stones & rare very fine quartz grit; no concretions; no charcoal; diffuse boundary to:	[5-15]
12 - 25	5YR 3/3 (dark reddish brown); no mottles; silty clay; moderate medium breaking to moderate fine subangular blocky & pockets of worm casts; no cutans; few fine & medium pores; slightly moist & slightly firm; common fine & medium tree roots; rare very fine quartz grit; common fine black ferrimanganiferous concretions; no charcoal; clear wavy boundary to:	[15-25]
25 - 40	2.5YR 4/4 (reddish brown); no mottles; gritty silty clay; moderate coarse breaking to moderate medium subangular blocky & many worm casts; moderate discontinuous clayskins; common fine pores & common old ant nest channels; moist & firm; few fine & medium tree roots; many fine slightly hard grey & orange weathered stones; few fine black ferrimanganiferous concretions; no charcoal, clear wavy boundary to:	[25-35] [35-45]
40 - 75	10R 4/4 (weak red) with many medium distinct 10R 4/2 (weak red) mottles; weathered rock hand textures as gritty clay loam; massive with fissures & few patches of worm casts; strong continuous clayskins & weathering films; common nest channels; moist & firm; rare fine & medium tree roots; many fine patches of less weathered grey & orange weathered saprolite; no concretions; no charcoal, clear wavy boundary to:	[45-55] [55-65] [65-75]
75 - 166+	Light grey, with purple, orange & yellow patches & white streaks & spots; slightly hard weathered rock; dipping to E at 40o, strong clayskins & weathering films; very rare fine tree roots	None

Correlations

Catapan

(1970): O C M Cv 3

МС 1 1

World Reference

Base: (Hyper) Eutric Cambisol

Soil

Taxonomy: Typic Eutrudept

Colours appeared darker in field than Munsell indicate. High exchangeable Ca but Mg also high so Ca:Mg ratios are moderate . Moderate exchangeable K. Features: