

Table 3.1 Main geomorphological Units

Code	Geomorphological Units	Process	Activity	Hazard
110	Deep and narrow river channels	Vertical river erosion	Active	High hazard by river vertical erosion
111	Actual river course infilled by alluvial sediments	Flooding and deposition of alluvial sediments	Active	High floods hazard
112	Riverbed infilled by alluvial and laharcic sediments frequently flooded	Deposition of aluvial-lahar sediments	Active	High lahar flows and flash floods hazard
121	Medium-high Alluvial terraces	Lateral river erosion	Inactive	Moderate floods hazard
122	Medium Alluvial terraces	Lateral river erosion	Partially Active	Moderate floods hazard
123	Low Alluvial terraces and flood plain	Deposition of aluvial-lahar sediments	Active	High lahar flows and flash floods hazard
133	Lahars terraces related to the eruption 1929	Deposition of aluvial-lahar sediments	Inactive	Moderate hazard related with mass movement
134	Lahars terraces related to the eruption 1984	Deposition of aluvial-lahar sediments	Inactive	Moderate floods hazard
135	Flat to gentle slopes in lahars and pyroclastic flow fan, slightly dissected	Slow denudational process (sheet erosion)	Inactive	Low hazard soil erosion
135-a	Flat to gentle slopes in old pyroclastic flows, mixed whit lahars sediments	Slow denudational process (sheet erosion)	Inactive	Low hazard soil erosion
211	Fluvial scarp with active lateral erosion	Lateral river erosion	Active	High hazard related to lateral erosion
212	Fluvial scarp without erosion	Lateral river erosion	Inactive	Low hazard related to lateral erosion
232	Flat areas cover by recent lahars deposits, composed of sand and gravels	Flash flood and Lahars	Inactive	Low flood hazard
234	Gravel and sand bars in the lahars flood plain	Flash flood and Lahars	Inactive	High lahar flows and flash floods hazard
311	Structural-denudational slopes in old pyroclastic deposits	Denudational processes and mass movement	Partially Active	Moderate hazard related with mass movement
312	Fault scarps	Landslides and mass movements	Partially Active	High hazard related to lateral erosion
321	Foot slope with colluvial sediments, slightly dissected	Deposition of materials tranported by mud-flows	Partially Active	Moderate hazard related with mass movement
322	Foot slope with active mass wasting; composed of volcanic materials and colluvial sediments	Deposition of materials tranported by mud-flows	Partially Active	Low hazard related to lateral erosion
323	Moderately steep slopes in pyroclastics from Santa Maria Volcano, slightly dissected	Denudational processes and mass movement	Partially Active	Low hazard related to lateral erosion
324	Flow Fan composed by colluvial and volcanic detritus	Deposition of materials tranported by mud-flows	Active	High rock fall hazard
331	Large scarp with active erosion	Denudational processes and mass movement	Active	High pyroclastic flows hazard
332	Large complex landslides	Landslides and mass movements	Inactive	Moderate hazard related with mass movement
333	Landslide body	Debris deposition	Inactive	Low Hazard related to soils Erosion
411	Lava flows pre-eruption 1902 from Santa Maria volcano. In the terrain they form large and narrows ridges	Slow denudational processes(erosion and back cutting) in old lavafloes	Inactive	Low Hazard related to soils Erosion
412	Lava flows formed after 1902eruption from "El Brujo"dome composed of dacites.They form narrow lava fields	Slow denudational processes(erosion and back cutting) in old lavafloes	Inactive	High lava flows and pyroclastic flows hazard
413	Recent lava flows from "El Caliente" dome, of dacitic composition	Recent Lavafloes	Active	Low hazard related to lateral erosion
414	Moderately to steep talus slopes related to Santiaguito complex	Deposition of materials tranported by rockfall	Active	Low Hazard related to soils Erosion
421	Moderately to steep slopes in oldest pyroclastic flows from "Zunil" volcano	Gully and ravine erosion	Inactive	Low hazard soil erosion
422	Moderately steep slopes, in pyroclastic flows, formed before the eruption of 1902 of Santa Maria volcano	Slow denudational process (sheet erosion)	Partially Active	Low Hazard related to soils Erosion
423	Moderately to steep slopes in pyroclastic flows related to eruption 1902of Santa Maria volcano, slightly dissected	Gully and ravine erosion	Partially Active	Low hazard related to lateral erosion
424	Intervolcanic basin, filled with pyroclastic deposits, mixed with slope deposits	Deposition of materials tranported by mud-flows	Active	Low Hazard related to soils Erosion
425	Gentle to moderately steep slopes in pyroclastic deposits from "Siete Orejas" volcano, moderately dissected	Slow denudational process (sheet erosion)	Partially Active	High hazard by river vertical erosion
425-a	Steep slopes in pyroclastic deposits from "Siete Orejas" volcano, moderately dissected	Slow denudational process (sheet erosion)	Active	High hazard by river vertical erosion
426	Slopes in pyroclastic flows of 1902eruption of Santa Maria volcano	Gully and ravine erosion	Partially Active	Low hazard related to lateral erosion
431	Non-active volcanic cone of Santa Maria volcano, highly dissectedwith steep slopes	Denudational processes and mass movement	Inactive	High hazard related to undercutting and backward erosion
432	Volcanic cones related to El Brujo, El Monje and La mitad domes, composed of ashes,dacitic lavas and frgmental rocks	Denudational processes and mass movement	Partially Active	High lava flows and pyroclastic flows hazard
433	Volcanic cone related to El caliente dome,formed in ash, dacitic lavas and fragmental rocks	Acumulation of volcanic materials on the cone	Active	Low Hazard related to soils Erosion
441	Main crater related to the 1902 explosion, with moderatelyto steep slopesand highly dissected	Gully and ravine erosion	Inactive	Low Hazard related to soils Erosion
442	Secondary crater related to the 1902 explosion of Santa Maria volcano, with moderates slopes and highly dissected	Denudational processes and mass movement	Inactive	Low Hazard related to soils Erosion
443	Steep crater wall, in looses volcanic materials (andesitic-basaltic fragmental rocks) highly dissected with complex landslides	Denudational processes and mass movement	Partially Active	Low hazard related to lateral erosion
444	Currently inactive craters of "El Brujo", "El Monje", "La Mitad" domes, composed of ashes, daciticlavas and frgmental rocks	Denudational processes and mass movement	Inactive	High lava flows and pyroclastic flows hazard
445	Currently active crater of "El Caliente" dome, formed of ash, dacitic lavas and fragmental rocks	Acumulation of volcanic materials on the cone	Active	High lava flows and pyroclastic flows hazard

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