6.1 Mag. Quake, Atequipa, Peru - 6/29/2024

Administrative Region May 1. Land 1.

Subduction of the Nazza plate is geometrically complex and impacts the geology and seismicity of the western edge of South America. The intermediate-depth regions of the subducting Nazza plate can be segmented into five sections based on their angle subduction beneath the South America plate. Three segments are characterized by steeply dipping subduction; the other two by near-horizontal subduction. The Nazza plate beneath northern Ecuador, southern Peru to northern Chile, and southern Chile descend into the manite at angles of 25° to 30°. In contrast, the slab beneath southern Ecuador to central Peru, and under central Chile, is subducting at a hallow single of approximately 10° or less. In these regions of "flat-slab" subduction, the Nazza plate moves horizontally for several hundred An America plate. Although the South America plate chiles to achieve a subduction of the Nazza plate in the Nazza plate of the Nazza plate in the N

Rupture and Aftershock Zones M8.8 1906 M8.2 2014 M8.0 1995 M8.5 1922 Earthquakes (1900 - 2016) Nazca Plate USGS Community Internet Intensity Map NEAR THE COAST OF SOUTHERN PERU 2024-06-29 07:05:33 UTC 16.1219S 74.5791W M6.1 Depth: 19 km ID:us6000n948 120 - 160 (40 km intervals) Pacific Ocean US MCWV 00 LHZ Starts: 2024/06/28 17:00 UTC 14°S -14°S 20:00 18°S -11:00 9 responses, 9 plotted in 5 cities (Max CDI = VI) 100 miles 12:00 13:00 74°W 72°W 78°W 14:00 Light Strong Very strong 15:00 16:00 Processed: Sun Jun 30 07:38:31 2024 vmdyfi1 Time [m] (bandpass: 0.004-0.05Hz Trace Spacing: 3.33e-04 mm/s)

Large (6.1 Mag.), deep (19 Km) offshore quake. No tsunami.