Castillo, C.M., Klemperer, S.L., Ingle, J.C., Jr., Powell, C.L., II, Legg, M.R., and Francis, R.D., 2018, Late Quaternary subsidence of Santa Catalina Island, California Continental Borderland, demonstrated by seismic-reflection data and fossil assemblages from submerged marine terraces: GSA Bulletin, https://doi.org/10.1130/B31738.1

GSA Data Repository Item 2018247

Table S1: Sample locations from Santa Catalina Island

Figure S1: Santa Catalina and San Clemente Island topography and bathymetry

Figure S2: Santa Catalina Island Seismic Data

Figure S3: Pilgrim/Kidney Banks Seismic Data

http://www.geosociety.org/datarepository/2018

Supplementary Table 1: Sample locaions Santa Catalina Island

Sample	Sample Type	Latitude	Longitude	Depth
NA067-001	ROV Grab Sample	33.41216	-118.32676	354.8
NA067-002	ROV Grab Sample	33.41222	-118.32667	354.5
NA067-003	ROV Grab Sample	33.41192	-118.32660	347.6
NA067-004	ROV Grab Sample	33.40839	-118.33038	291.7
NA067-005	ROV Grab Sample	33.40838	-118.33038	288.0
NA067-006	ROV Grab Sample	33.40772	-118.33147	256.2
NA067-007	ROV Grab Sample	33.40767	-118.33131	268.2
NA067-008	ROV Grab Sample	33.40755	-118.33147	258.2
NA067-009	ROV Grab Sample	33.40296	-118.33388	238.9
NA067-010	ROV Grab Sample	33.40292	-118.33390	237.1
NA067-011	ROV Grab Sample	33.45403	-118.67695	699.3
NA067-012	ROV Grab Sample	33.45410	-118.67694	696.2
NA067-013	ROV Grab Sample	33.45555	-118.67708	649.2
NA067-014	ROV Grab Sample	33.46539	-118.67713	457.0
NA067-015	ROV Grab Sample	33.46536	-118.67741	459.4
NA067-016	ROV Grab Sample	33.46656	-118.67724	398.2
NA067-017	ROV Grab Sample	33.47144	-118.67710	234.8
NA067-018	ROV Grab Sample	33.47144	-118.67711	234.7
NA067-019	ROV Grab Sample	33.47145	-118.67711	234.7
NA067-020	ROV Slurp	33.47220	-118.67728	230.6
NA067-021	ROV Push Core	33.47221	-118.67729	230.5
NA067-022	ROV Grab Sample	33.47381	-118.67711	226.0
NA067-023	ROV Grab Sample	33.47445	-118.67716	223.9
NA067-024	ROV Grab Sample	33.47385	-118.67496	222.9
NA067-025	ROV Grab Sample	33.47219	-118.65253	182.7
NA075-100	ROV Grab Sample	33.40918	-118.36225	161.4
NA075-101	ROV Push Core	33.40855	-118.36080	142.0
NA075-102	ROV Grab Sample	33.40779	-118.36180	150.6
NA075-103	ROV Grab Sample	33.40704	-118.36157	143.3
NA075-104	ROV Grab Sample	33.40695	-118.36139	141.9
NA075-105	ROV Slurp	33.40635	-118.36142	135.5
NA075-106	ROV Grab Sample	33.40632	-118.36186	132.3
NA075-107	ROV Grab Sample	33.40578	-118.36191	128.6
NA075-108	ROV Push Core	33.40572	-118.36117	124.1
NA075-109	ROV Grab Sample	33.40554	-118.36193	124.4
NA075-110	ROV Grab Sample	33.40554	-118.36189	126.1
NA075-111	ROV Grab Sample	33.40543	-118.36208	121.2
NA075-112	ROV Grab Sample	33.40466	-118.36282	105.2
NA075-113	ROV Grab Sample	33.40466	-118.36281	105.0
NA075-114	ROV Slurp	33.40508	-118.36132	116.0
NA075-115	ROV Slurp	33.40536	-118.36119	120.3
NA075-116	ROV Slurp	33.40521	-118.36090	109.5
NA075-117	ROV Push Core	33.40519	-118.36074	104.5
NA075-118	ROV Grab Sample	33.40402	-118.36151	107.3
1301	Gravity Core	33.42960	-118.39536	190.9
1302	Gravity Core	33.42902	-118.39529	186.7
1303	Gravity Core	33.42841	-118.39560	179.5
1304	Gravity Core	33.43836	-118.39605	240.5
1305	Gravity Core	33.43963	-118.39847	243.2
1306	Gravity Core	33.43762	-118.39560	236.7
1307	Gravity Core	33.44718	-118.39481	330.0
1308	Gravity Core	33.44636	-118.39506	319.4

1309	Gravity Core	33.44567	-118.39479	310.5
1310	Gravity Core	33.44561	-118.39504	308.3
1311	Gravity Core	33.42228	-118.36316	222.8
1312	Gravity Core	33.42265	-118.36301	225.8
1313	Gravity Core	33.41525	-118.35906	206.0
1314	Gravity Core	33.41590	-118.35870	212.7
1315	Gravity Core	33.41362	-118.35711	205.9
1316	Gravity Core	33.41269	-118.35664	184.7
1317	Gravity Core	33.41142	-118.35331	185.4
1318	Gravity Core	33.40808	-118.35474	142.4
1319	Gravity Core	33.40780	-118.35457	137.6
1320	Gravity Core	33.40778	-118.35620	105.6
1321	Gravity Core	33.40747	-118.35588	100.6
1322	Gravity Core	33.38754	-118.34939	62.3
1323	Gravity Core	33.38566	-118.34968	61.5
1324	Gravity Core	33.38406	-118.35020	60.9
1325	Gravity Core	33.40674	-118.35541	89.1
1401	Gravity Core	33.42866	-118.35994	291.6
1402	Gravity Core	33.42957	-118.35700	328.8
1403	Gravity Core	33.42436	-118.35478	270.4
1404	Gravity Core	33.42422	-118.35439	269.6
1405	Gravity Core	33.41570	-118.33145	338.6
1406	Gravity Core	33.41253	-118.32806	332.8
1407	Gravity Core	33.40952	-118.32697	302.3
1408	Gravity Core	33.40790	-118.32814	267.0
1409	Gravity Core	33.40450	-118.33665	206.4
1410	Gravity Core	33.40779	-118.34106	223.4
1411	Gravity Core	33.25781	-118.21368	266.0
1412	Van Veen Sample	33.25586	-118.22564	244.0
1413	Van Veen Sample	33.26209	-118.22306	239.0
1414	Van Veen Sample	33.26299	-118.21942	249.0
1415	Van Veen Sample	33.26169	-118.23547	217.0
1416	Van Veen Sample	33.27271	-118.25754	177.6
1417	Van Veen Sample	33.27439	-118.26128	170.4
1418	Van Veen Sample	33.27393	-118.25692	177.3
1419	Van Veen Sample	33.27697	-118.26703	165.9
1420	Van Veen Sample	33.28029	-118.27265	157.4
701	Van Veen Sample	33.46162	-118.51838	13.5
703	Van Veen Sample	33.47518	-118.51606	89.1
704	Van Veen Sample	33.47563	-118.51583	95.3
705	Van Veen Sample	33.46750	-118.61688	88.7
706	Van Veen Sample	33.46855	-118.62532	95.9
707	Van Veen Sample	33.46943	-118.63481	125.0
708	Van Veen Sample	33.47066	-118.64676	177.5
710	Van Veen Sample	33.44834	-118.61811	172.3
711	Van Veen Sample	33.45425	-118.61184	119.5
714	Van Veen Sample	33.46708	-118.61315	78.2
718	Van Veen Sample	33.46928	-118.63316	120.3
719	Van Veen Sample	33.46974	-118.63711	130.3
711a	Van Veen Sample	33.45546	-118.61286	115.2
711b	Van Veen Sample	33.45549	-118.61062	111.7
711c	Van Veen Sample	33.45691	-118.60914	97.4
712a	Van Veen Sample	33.45955	-118.60569	89.4
712b	Van Veen Sample	33.46116	-118.60368	82.8
714b	Van Veen Sample	33.46714	-118.61366	80.3

Supplementary Figure 1

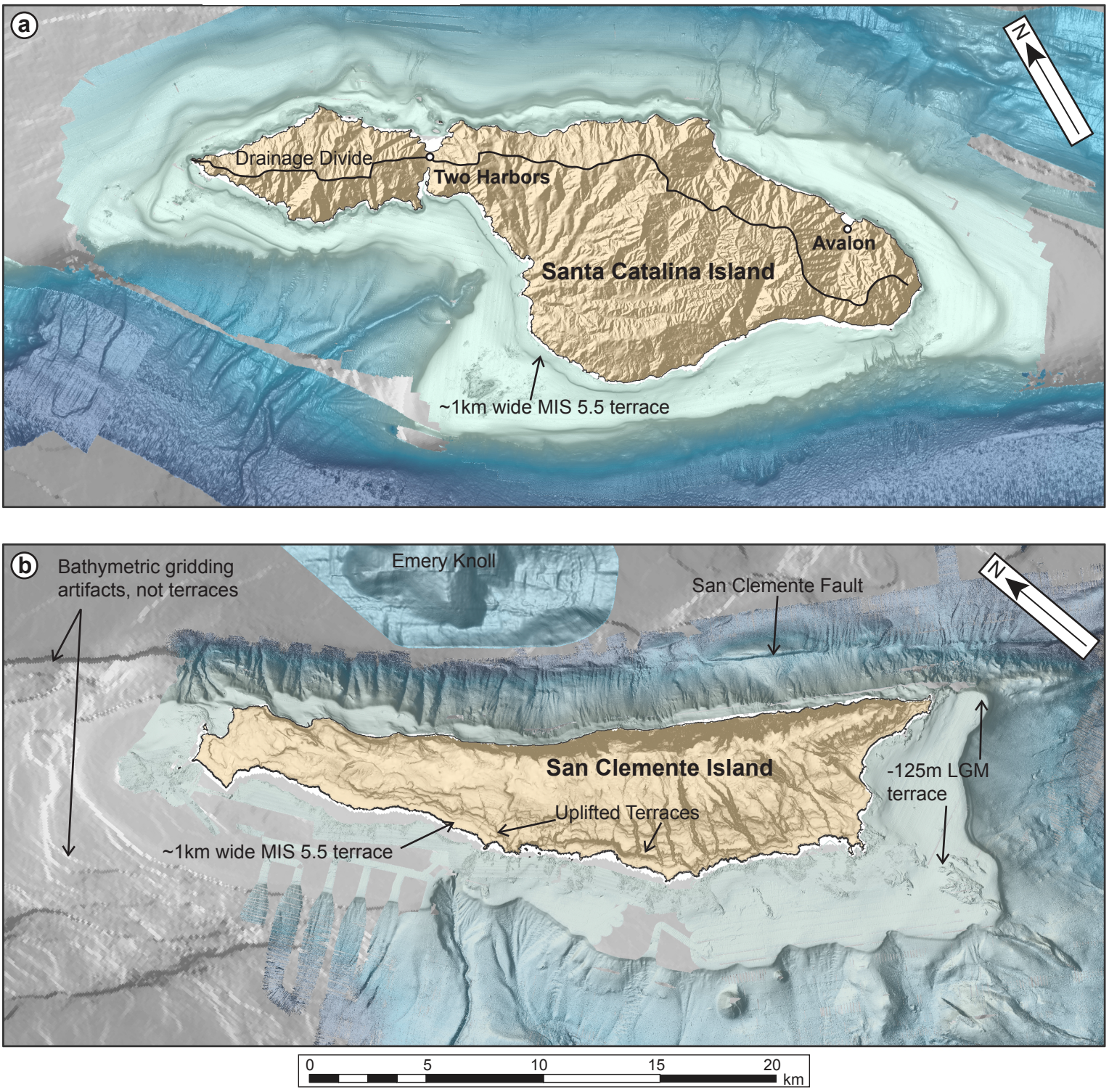
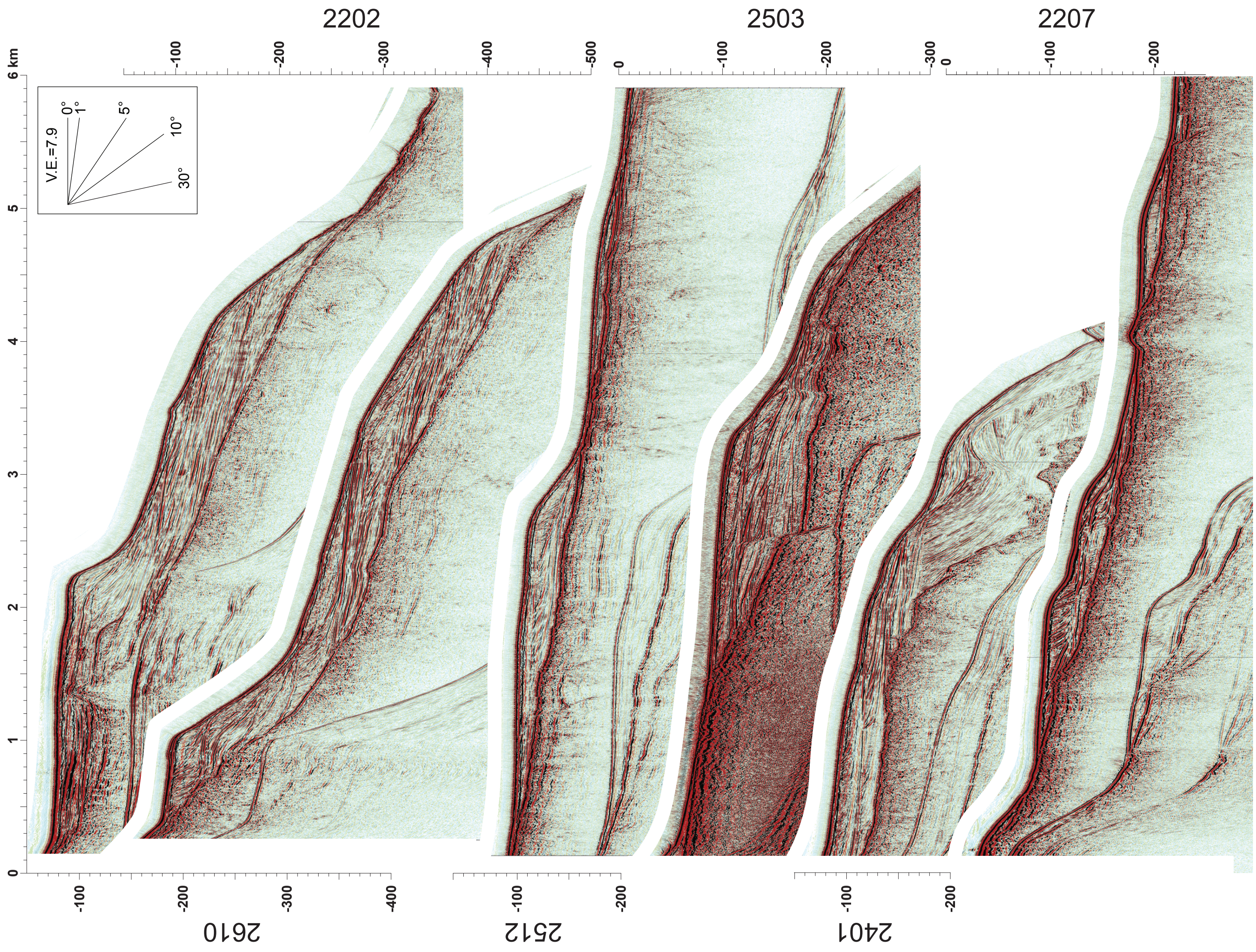


Figure S1: Topography and bathymetry of (a) Santa Catalina and (b) San Clemente Islands. Catalina topography: hillshade azimuth 315° and altitude of 45°. San Clemente topography: slope map selected to show stair-step terraces onshore. San Clemente bathymetry: Slope-enhanced shaded relief map of NGDC data gridded using MB-System. Catalina bathymetry: slope-enhanced relief map. Data: Cal State University, Monterey Bay, Seafloor Mapping project (CSUMB) and National Geophysical Data Center. Underlying bathymetry (both images): grayscale shaded relief map, data: Southern California Coastal Ocean Observing System (SCCOOS) 1/2 second bathymetric grid of Southern California. http://www.sccoos.org/data/bathy/. Topography (both images): USGS National Map: https://nationalmap.gov/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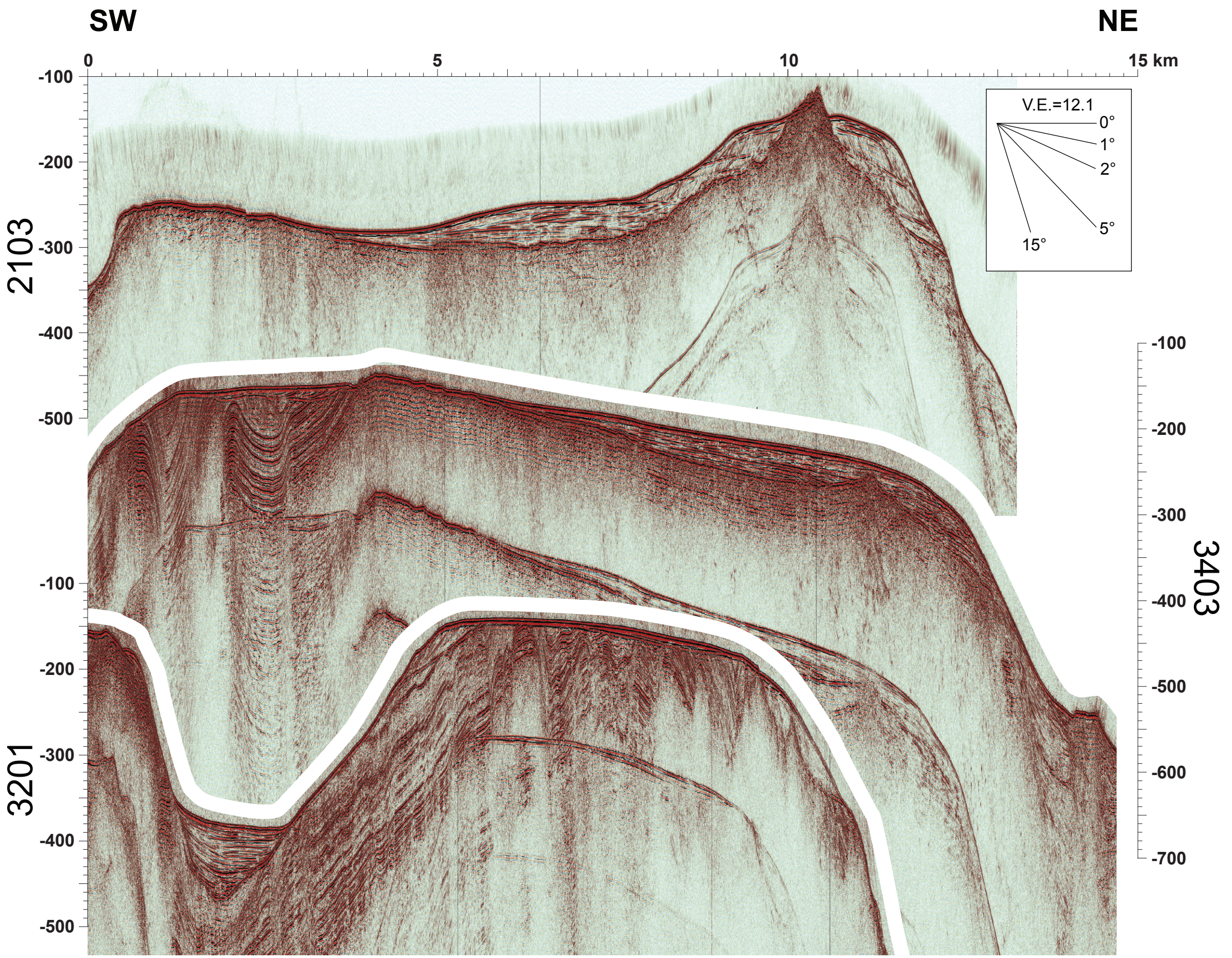
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3201