

**EXPLANATION**

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>— Quaternary fault, solid where well located, long dashed where approximately located, short dashed where inferred, dotted where concealed, dashed where evidence uncertain</li> <li>— Quaternary fault, solid where well located, long dashed where approximately located, short dashed where inferred, dotted where concealed, dashed where evidence uncertain</li> <li>— Shelf break</li> <li>★ DCP site</li> <li>— LESS 3D survey areas</li> <li>— Point Bucon 3D survey areas</li> </ul> | <ul style="list-style-type: none"> <li>— Legacy Active Tracklines</li> <li>— Acquisition 2014</li> <li>— UGSS W-174-SC</li> <li>— UGSS W-175-SC</li> <li>— UGSS W-176-SC</li> <li>— UGSS W-177-SC</li> <li>— UGSS W-178-SC</li> <li>— UGSS W-179-SC</li> <li>— UGSS L-64-74-SC</li> <li>— UGSS W-174-79-SC</li> <li>— GSI 1980</li> <li>— UGSS W-174-80-SC</li> <li>— W-34-5-SC</li> <li>— NACTON 1983</li> <li>— GSI 1985</li> <li>— CONMAP 1988</li> <li>— GSI 1988</li> <li>— NACTON 1988</li> <li>— PG&amp;E 11-SC 1987</li> <li>— UGSS L-4-88-SC</li> <li>— UGSS S-4-88-SC</li> <li>— UGSS S-4-89-SC</li> <li>— Page 2010-2012</li> <li>— Page 4000</li> <li>— 200-5A</li> <li>— PGP Pipe Canyon mapping study (PG&amp;E, 2014)</li> </ul> |
|--|---|

Sources:  
 - PG&E 2004 compilation (2013.07)  
 - Quaternary faults based on results of this study  
 - Fault traces modified from (DPR (2003), Lutz et al. (2004), Jennings and Byrnes (2010), Shoreline Fault Zone Report (PG&E, 2011), Johnson and Pratt (2012), Seismic Stratigraphy Report (PG&E, 2013), Wittigman et al. (2015), and offshore geologic mapping study (PG&E, 2014).  
 Map scale: 1:6,000  
 Map projection: WGS 84 / UTM Zone 10N

**PLATE 1B**  
**San Luis Obispo Bay 3D Survey Areas, 2D Trackline Map, and Quaternary Faults**  
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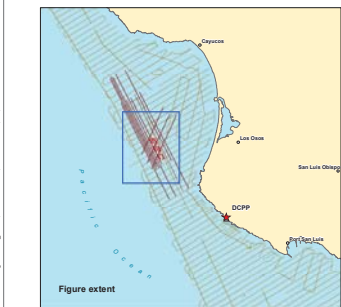
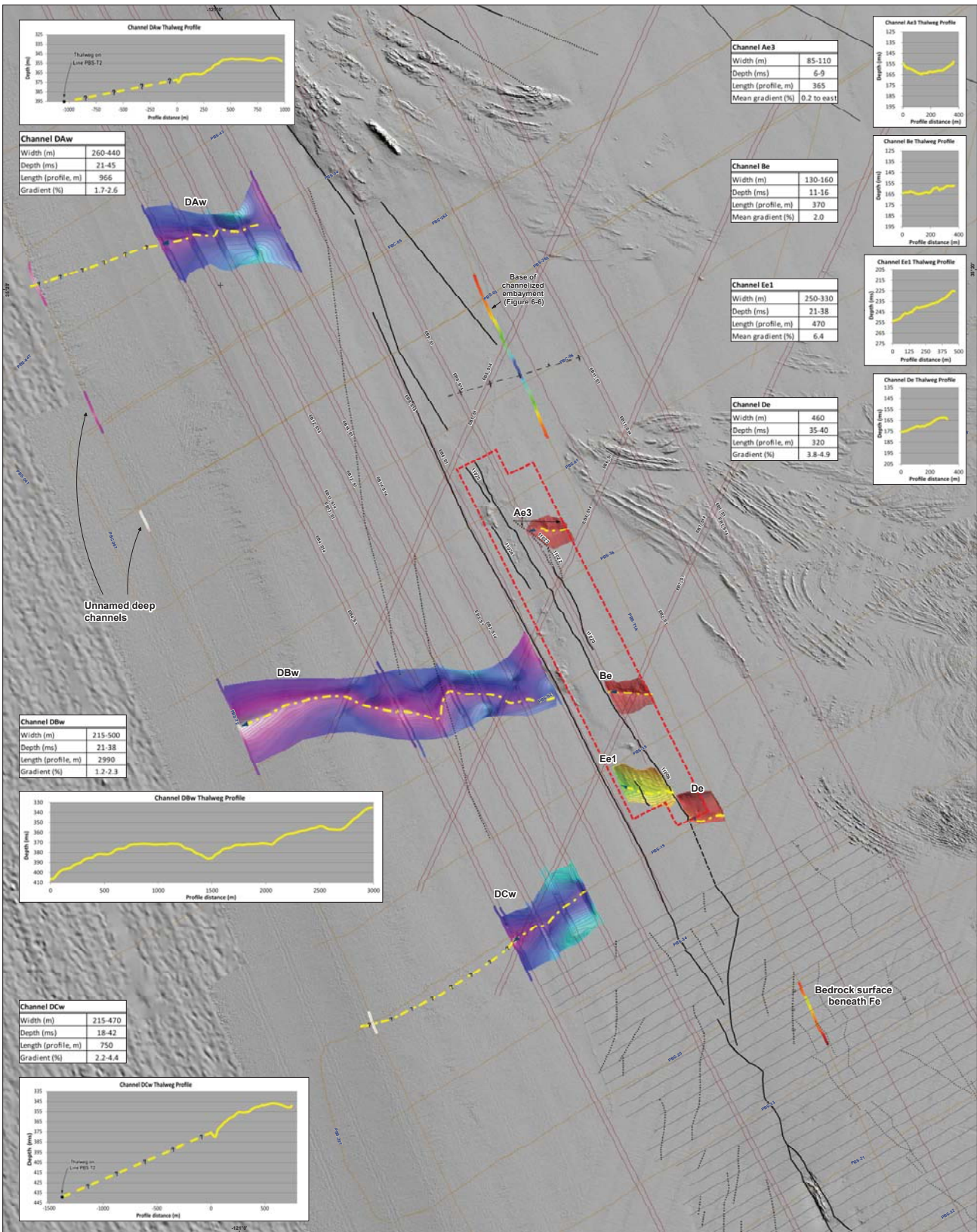


Figure extent



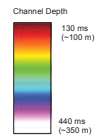




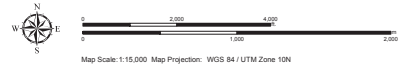


**EXPLANATION**

- · — · — · Hoggi fault zone traces: solid where well located, dashed where approximately located, dotted where existence is uncertain.
- · — · — · Other Quaternary fault: solid where well located, dashed where approximately located, dotted where existence is uncertain, short dashed where inferred, queried where existence is uncertain.
- USGS 2D survey trackline
- - - Fugro 3D survey extent
- Fugro 2D survey trackline
- - - Channel thalweg mapped from seismic-reflection data
- ↑ Anticline, arrow on axis indicates direction of plunge; dashed where approximately located
- Syncline, dashed where approximately located



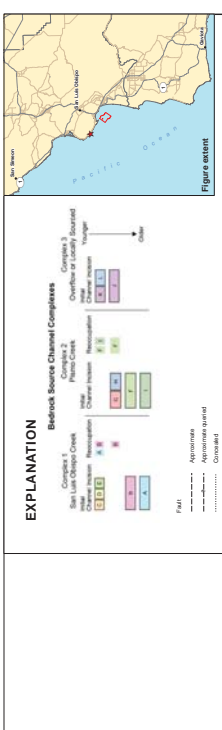
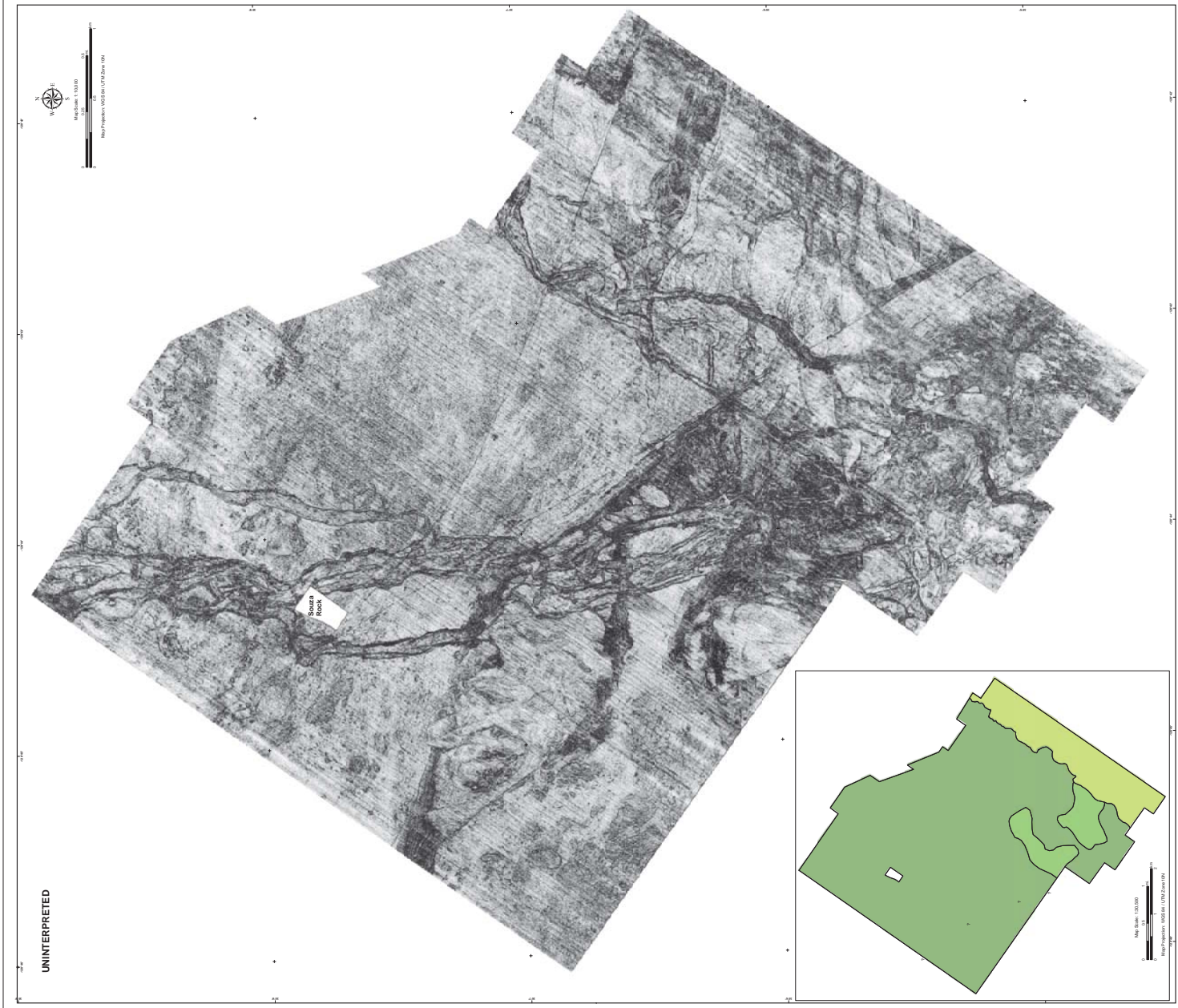
- Notes
- Colors on individual tracklines represent depth of original channel interpretation on that line. Gridded and contoured surfaces between tracklines are interpolated to help visualize channels. However, channel geometry is not considered between seismic profiles.
  - Contours within channels mapped from seismic data are on 5 m intervals.
  - Channel width is measured across the channel on individual seismic profiles between the breaks in slope between the incised part of the channel and the surrounding surface (the shoulders). Because these breaks in slope are often gradual, the channel width measurements are approximate. Channel grids include channel shoulders.
  - Channel depth is the depth of thalweg incision below the surrounding surface (channel shoulder).



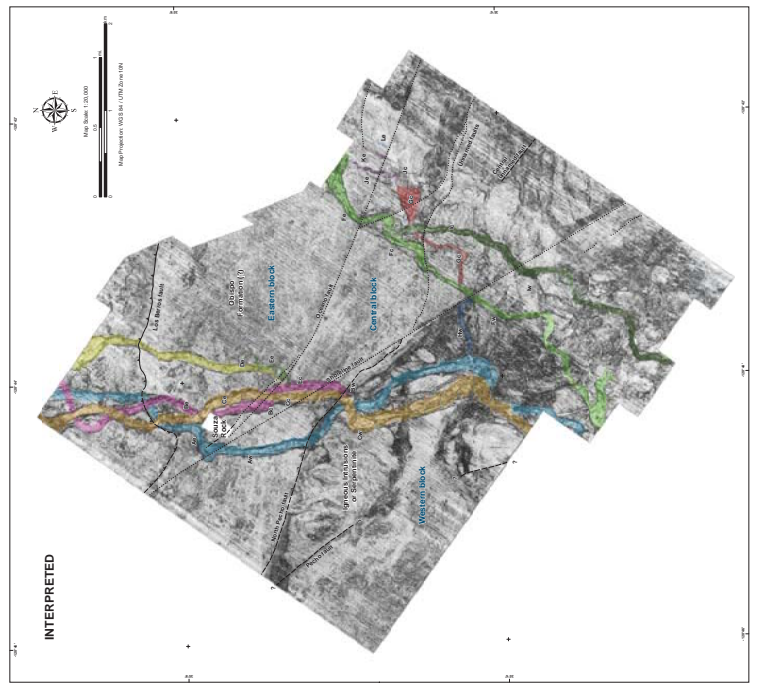
- Sources:
- Project DEM compilation v2013.07
  - Traces of Point Buchon fault from PG&E (2012).
  - Fugro 2D and 3D seismic-reflection data (Fugro, 2012).
  - USGS 2D seismic-reflection data (Sliter et al., 2009).
  - Selected faults compiled from PG&E (2012, 2013).

**PLATE 3**  
**Distribution and Geometry of Buried Channels in Estero Bay Study Area**





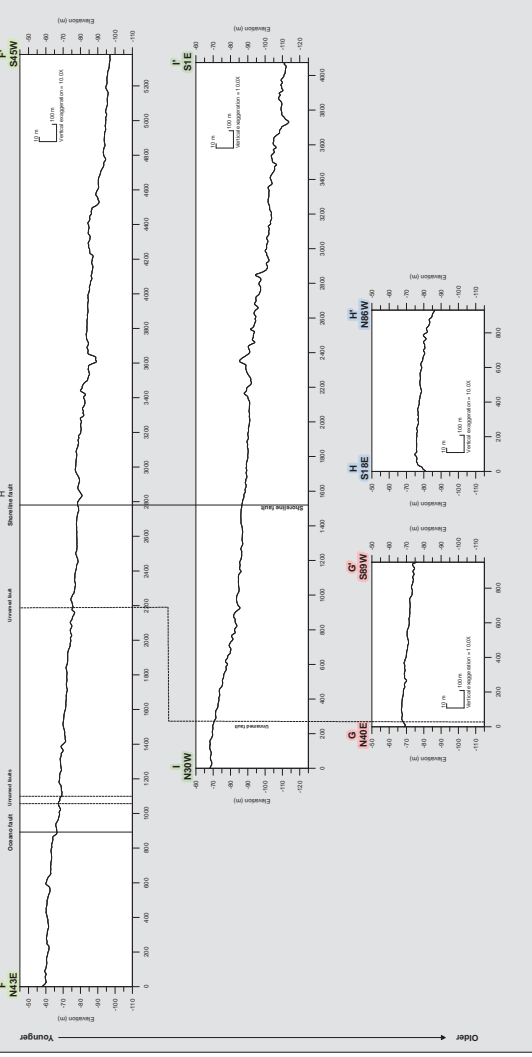
**PLATE 4**  
**Smoothed Similarity Bedrock Surface,**  
**Uninterpreted and Interpreted, San Luis Obispo Bay**  
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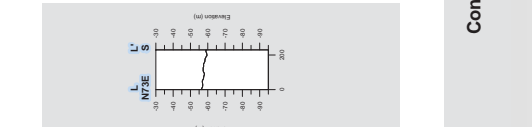




### Source Channel Complex 2



### Source Channel Complex 3



#### EXPLANATION

**Bedrock Source Channel Complexes**

- Source Channel Complex 1: A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
- Source Channel Complex 2: A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
- Source Channel Complex 3: A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

**Channel Head**

- Channel Head: A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

**Channel Intermediate Head**

- Channel Intermediate Head: A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

**Channel Shallow Head**

- Channel Shallow Head: A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

**Channel Head**

- Channel Head: A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

**Channel Intermediate Head**

- Channel Intermediate Head: A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

**Channel Shallow Head**

- Channel Shallow Head: A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

**Figure extent**

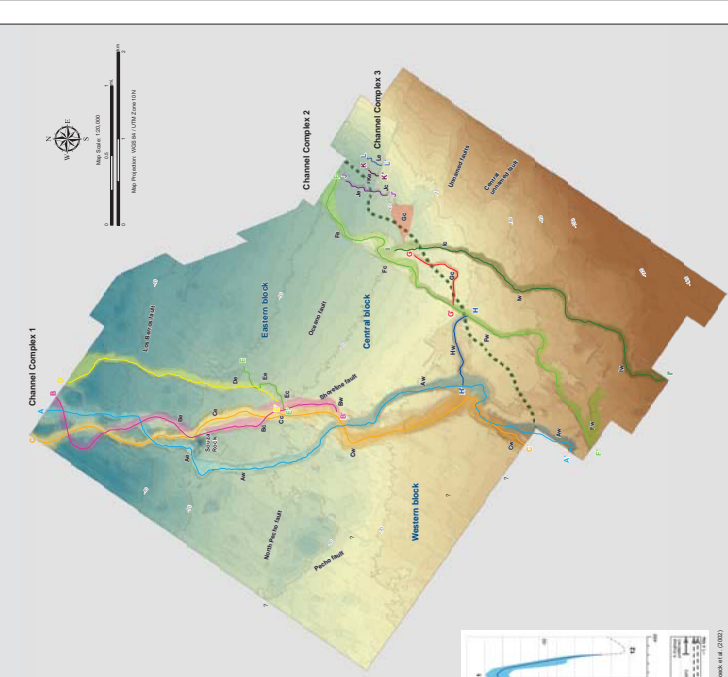
Notes: 1. This figure shows bedrock surface elevations from the San Luis Obispo Bay. 2. Vertical exaggeration is 10:1.

**PLATE 6**

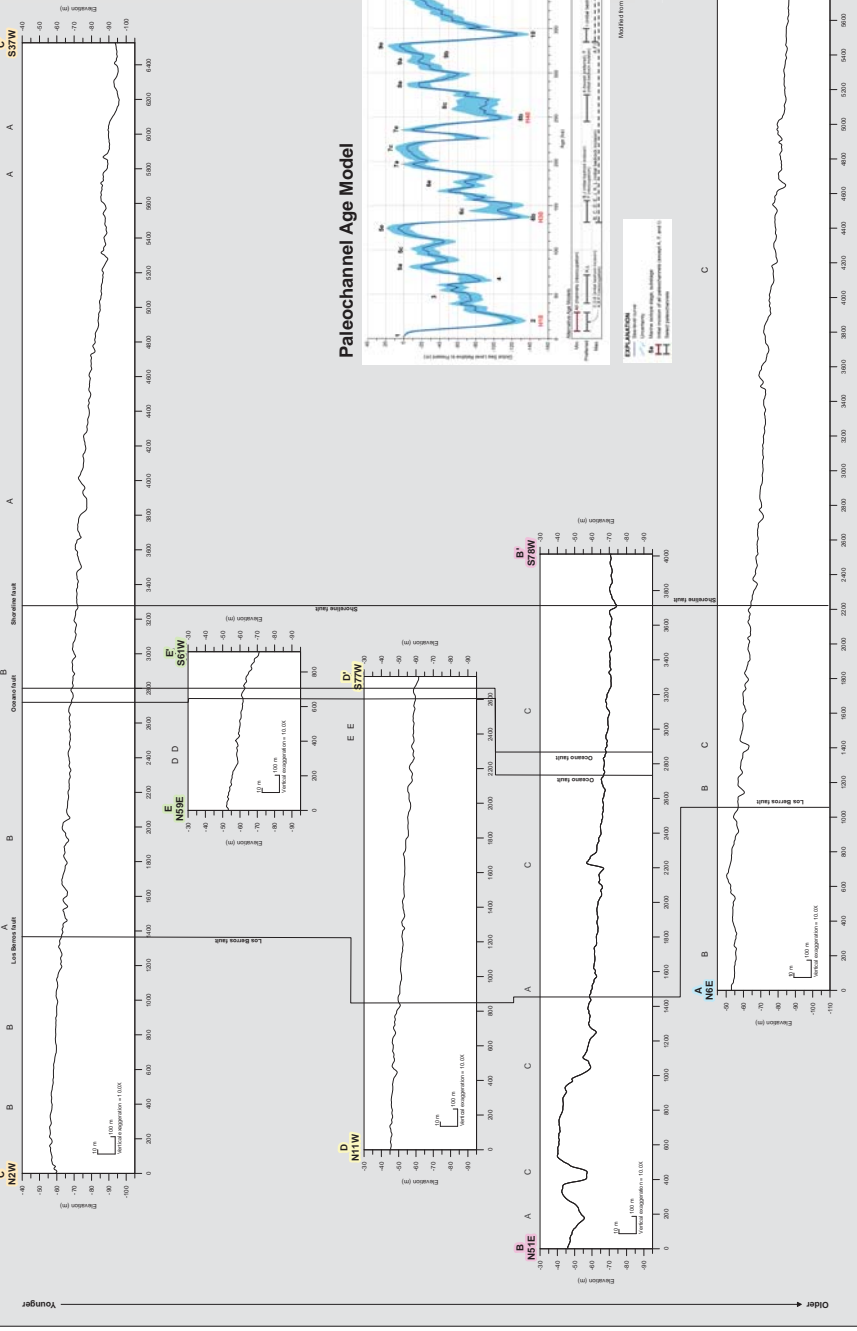
**Paleochannel Profiles, San Luis Obispo Bay**

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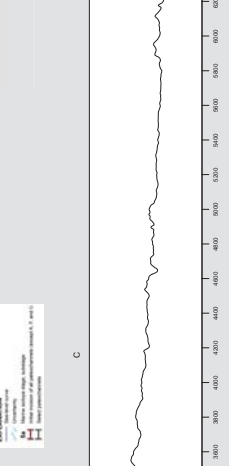
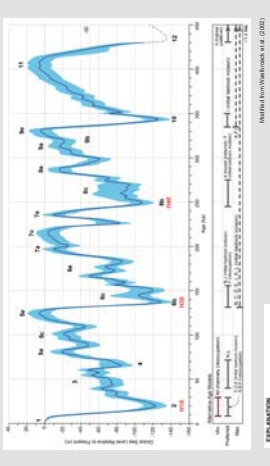
### Contoured Top of Bedrock Surface (m)



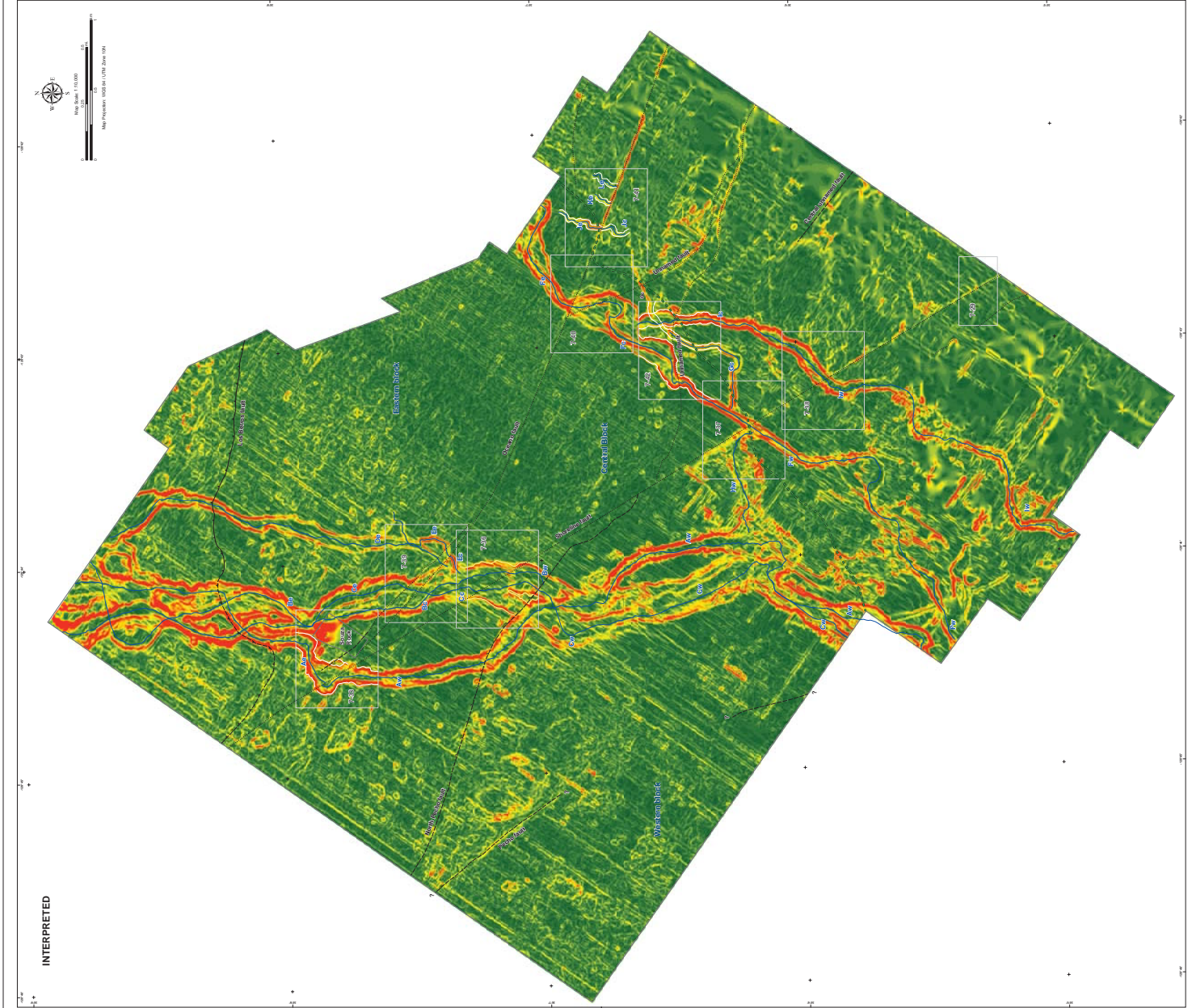
### Source Channel Complex 1



### Paleochannel Age Model







**PLATE 7**  
**Bedrock Slope in Degrees Uninterpreted and Interpreted, San Luis Obispo Bay**

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**EXPLANATION**

- Other (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100)

**Bedrock Slope**

0.00-0.25°
0.25-0.50°
0.50-0.75°
0.75-1.00°
1.00-1.25°
1.25-1.50°
1.50-1.75°
1.75-2.00°
2.00-2.25°
2.25-2.50°
2.50-2.75°
2.75-3.00°
3.00-3.25°
3.25-3.50°
3.50-3.75°
3.75-4.00°
4.00-4.25°
4.25-4.50°
4.50-4.75°
4.75-5.00°
5.00-5.25°
5.25-5.50°
5.50-5.75°
5.75-6.00°
6.00-6.25°
6.25-6.50°
6.50-6.75°
6.75-7.00°
7.00-7.25°
7.25-7.50°
7.50-7.75°
7.75-8.00°
8.00-8.25°
8.25-8.50°
8.50-8.75°
8.75-9.00°
9.00-9.25°
9.25-9.50°
9.50-9.75°
9.75-10.00°
10.00-10.25°
10.25-10.50°
10.50-10.75°
10.75-11.00°
11.00-11.25°
11.25-11.50°
11.50-11.75°
11.75-12.00°
12.00-12.25°
12.25-12.50°
12.50-12.75°
12.75-13.00°
13.00-13.25°
13.25-13.50°
13.50-13.75°
13.75-14.00°
14.00-14.25°
14.25-14.50°
14.50-14.75°
14.75-15.00°
15.00-15.25°
15.25-15.50°
15.50-15.75°
15.75-16.00°
16.00-16.25°
16.25-16.50°
16.50-16.75°
16.75-17.00°
17.00-17.25°
17.25-17.50°
17.50-17.75°
17.75-18.00°
18.00-18.25°
18.25-18.50°
18.50-18.75°
18.75-19.00°
19.00-19.25°
19.25-19.50°
19.50-19.75°
19.75-20.00°

Map Scale: 1:10,000  
Map Projection: UTM Zone 12N

