U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

SAN ONOFRE BLUFF QUADRANGLE
CALIFORNIA—SAN DIEGO CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

2450 I NW (DANA POINT)
2450 II NE (SAN CLEMENTE)
2550 IV SW (LAS PULGAS CANYON)
2550 II NW (OCEANSIDE)
2550 III NW (MARGARITA PEAK)

SANTA ANA 33 MI.
OCEANSIDE 12 MI.
SAN DIEGO 49 MI.

San Onofre Beach
San Onofre Nuclear Generating Station
BM 122
SAN ONOFRE ATCHISON, TOPEKA AND SANTA FE
8 LANE FREEWAY
SAN DIEGO
BM 138
Bluff
Duate
BM 165
Weigh Station
BM 140
BM 166
Agra
Foley Canyon
Duate Hill
FIREBREAK
SANTA MARGARITA Y LAS FLORES GRANT
CAMP PENDLETON
MARINE CORPS BASE
PACIFIC OCEAN
GULF OF SANTA CATALINA

117°37′30″ — 33°22′30″ — 117°30′ — 33°22′30″
117°37′30″ — 33°15′ — 117°30′ — 33°15′
20′ — 17′30″
1 590 000 FEET — 1 610 000 FEET — 440 000 FEET — 400 000 FEET
35′ — 32′30″
T. 9 S. — T. 10 S.

SCALE 1:24 000

1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS MEAN LOWER LOW WATER
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
THE MEAN RANGE OF TIDE IS APPROXIMATELY 4 FEET

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, P.O. BOX 25286, DENVER, COLORADO 80225
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1946. Field checked 1948. Revised from aerial photographs taken 1967. Field checked 1968

Selected hydrographic data compiled from USC&GS surveys (1924, 1934–35)
This information is not intended for navigational purposes

Polyconic projection. 1927 North American datum
10,000-foot grid based on California coordinate system, zone 6
1000-meter Universal Transverse Mercator grid ticks, zone 11, shown in blue

Dotted land lines established by private survey

Map photoinspected 1975
No major culture or drainage changes observed

GN MN 0°19′ 5 MILS 15° 267 MILS
UTM GRID AND 1968 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

20% TOTAL RECOVERED FIBER

RECEIVED
SEP 30 2000
USGS NMD
HISTORICAL MAP ARCHIVES

CALIF
QUADRANGLE LOCATION

ROAD CLASSIFICATION
Heavy-duty — Light-duty
Unimproved dirt
Interstate Route

SAN ONOFRE BLUFF, CALIF.
N3315—W11730/7.5

1968
PHOTOINSPECTED 1975
AMS 2450 I SE—SERIES V895

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