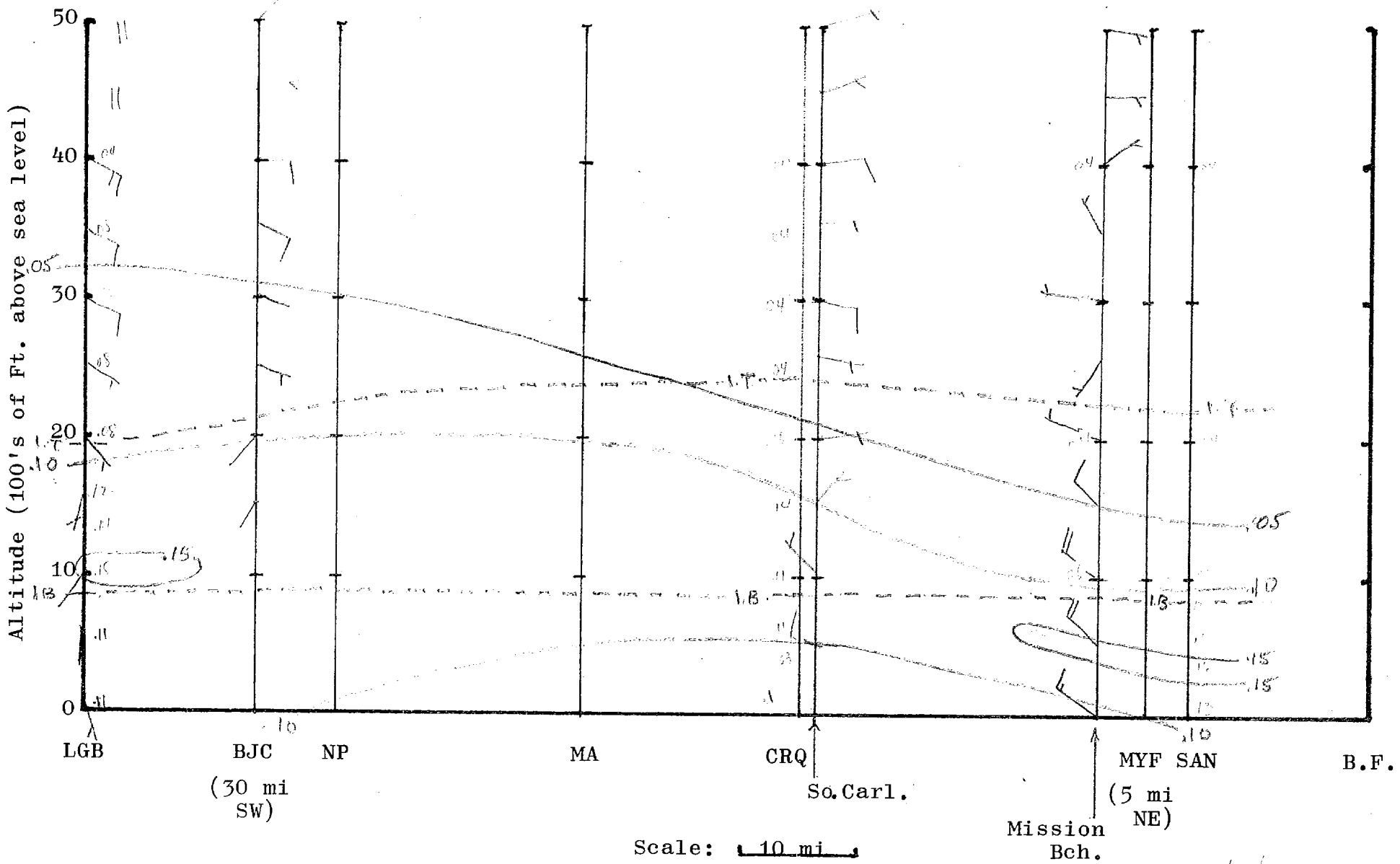
# A P P E N D I X  H

## CROSS-SECTIONS

Ozone concentrations shown in parts per million (ppm) with the location of maximum values indicated by shading.

Winds are shown by conventional wind arrows pointing in the direction the air is flowing. Wind speed is indicated by the barbs at the end of the wind arrows, one full barb equalling 10 mph, a half barb representing 5 mph.

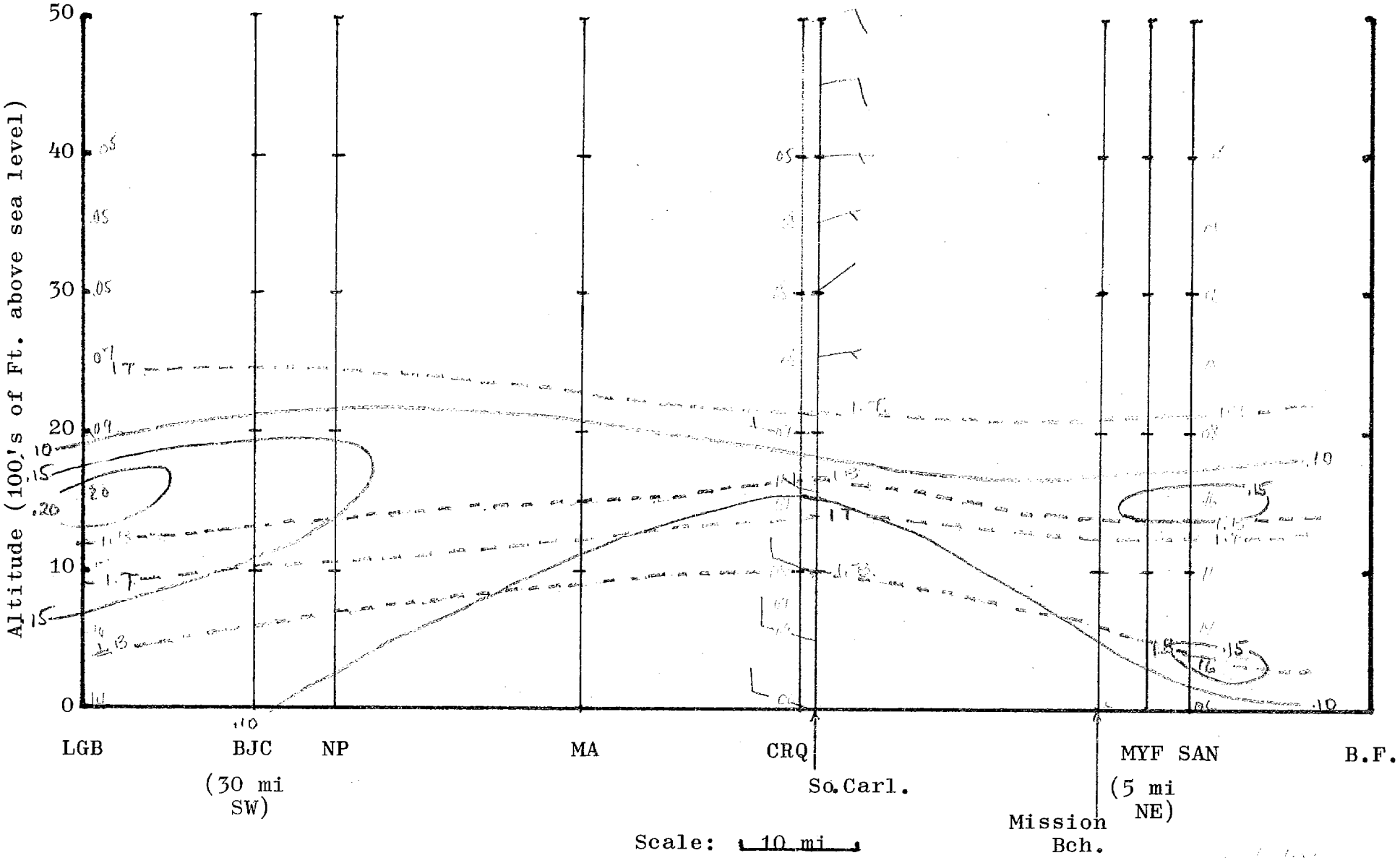
Location of the inversions are indicated by dashed lines, showing the inversion base (IB) and inversion top (IT).




Cross-section: Long Beach to San Diego

Date 10/5/[illegible]

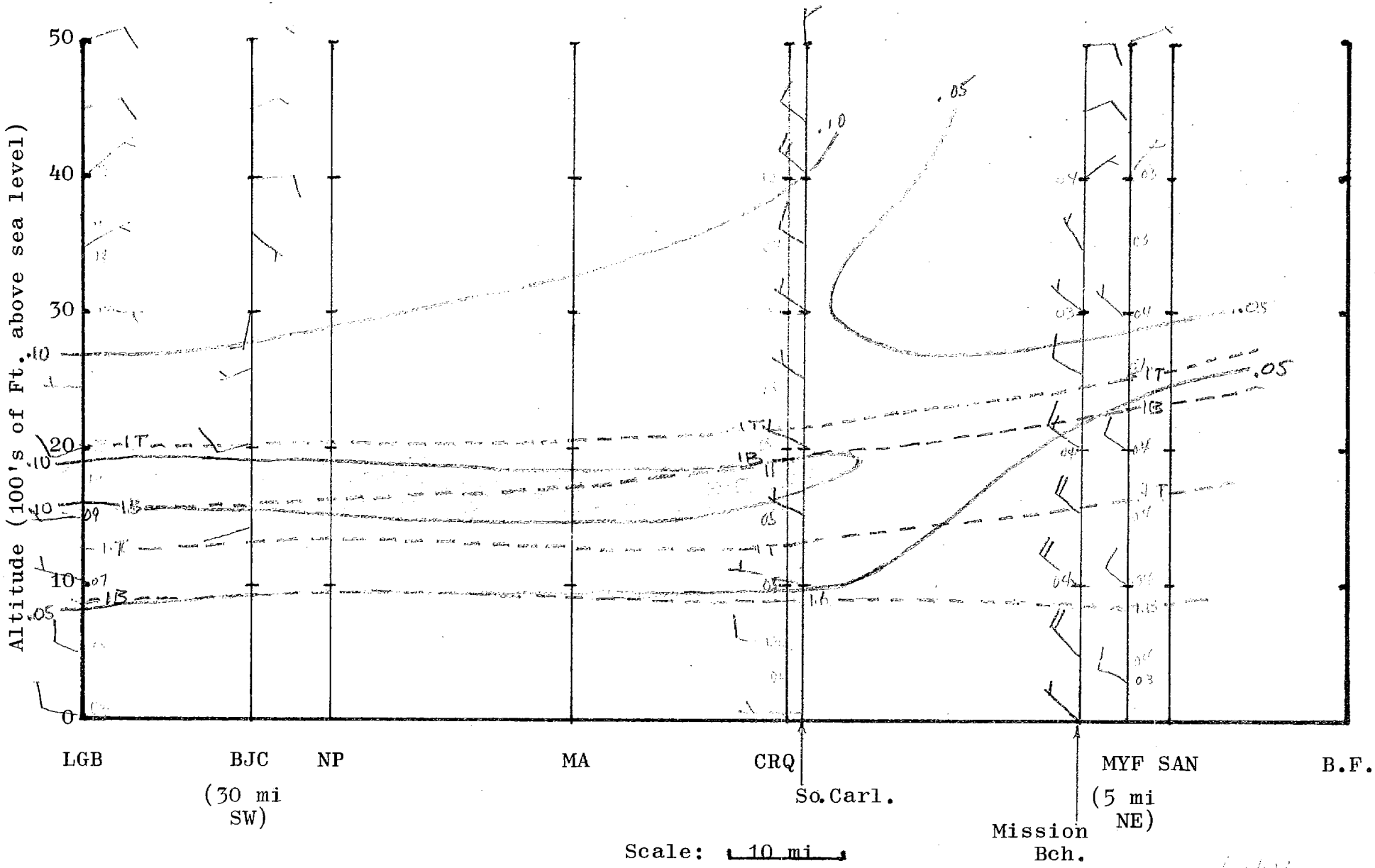
Time (PDT) [illegible]

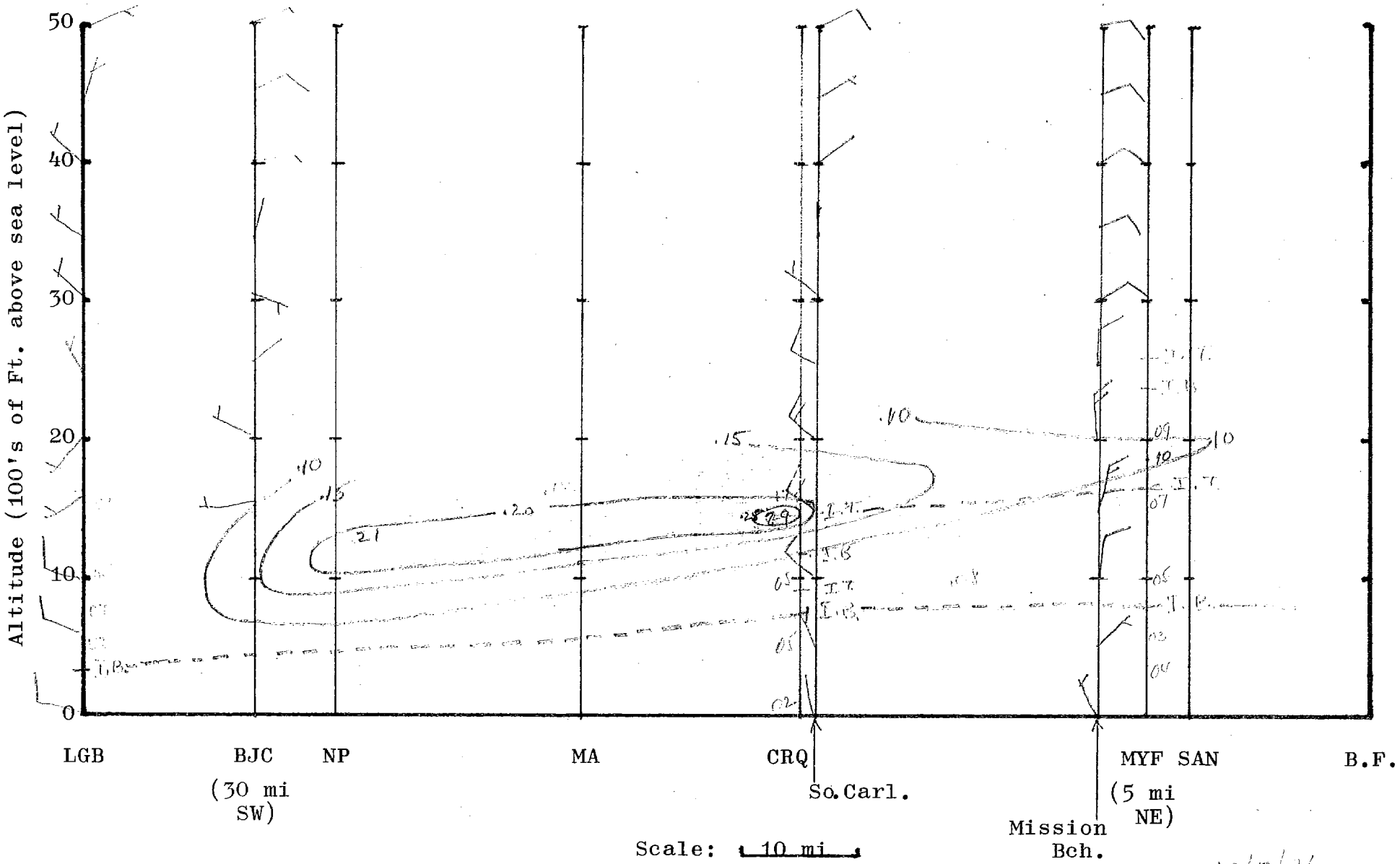



Cross-section: Long Beach to San Diego

Date 10/5/76

Time (PDT) 1500

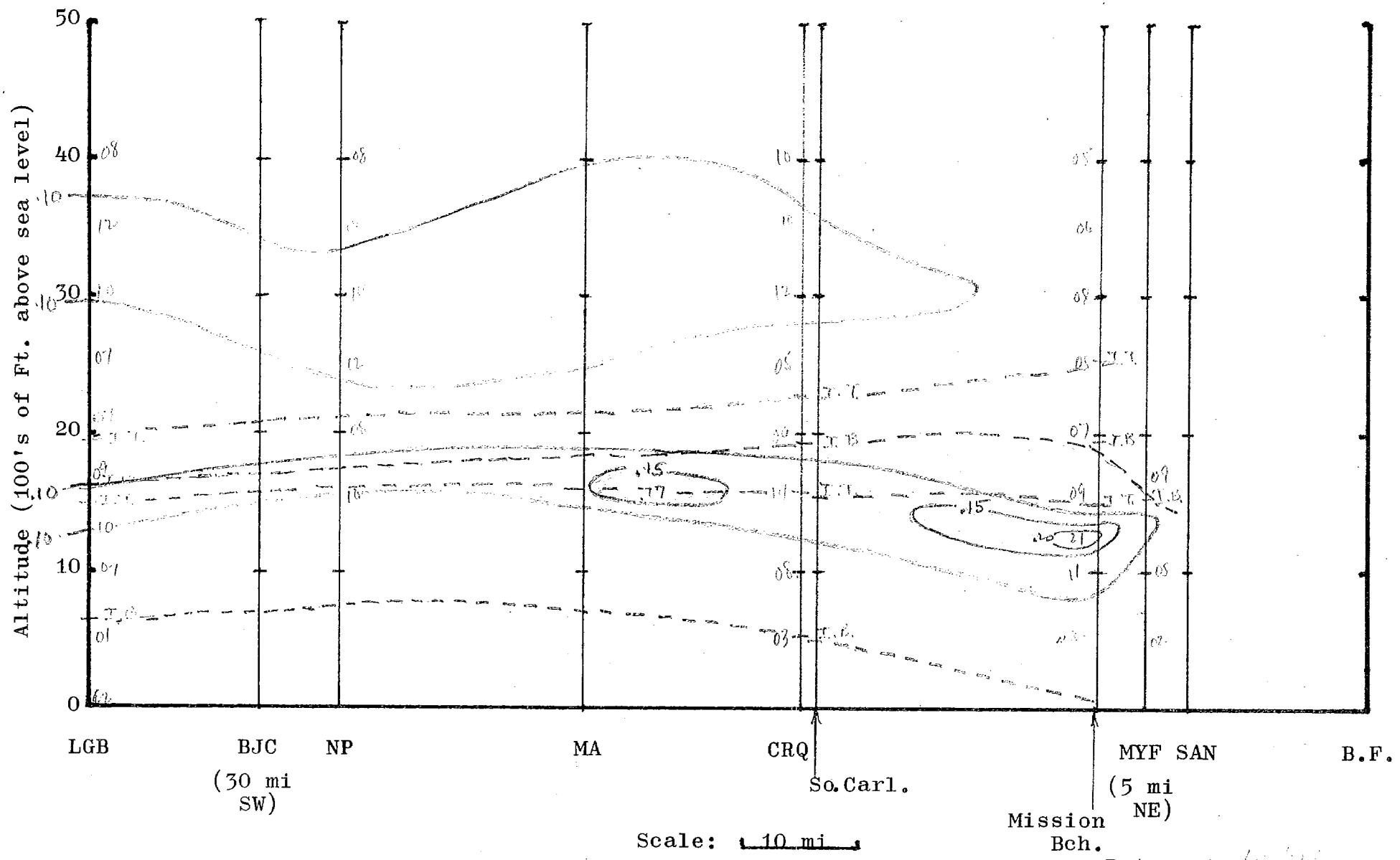

Altitude (100's of Ft. above sea level)
50
40
30
20
10
0
LGB
BJC
(30 mi SW)
NP
MA
CRQ
So. Carl.
MYF
SAN
(5 mi NE)
Mission Bch.
B.F.
Scale: 10 mi
Cross-section: Long Beach to San Diego
Date
Time (PDT)




Cross-section: Long Beach to San Diego

Date 10/5/76

Time (PDT) 1900

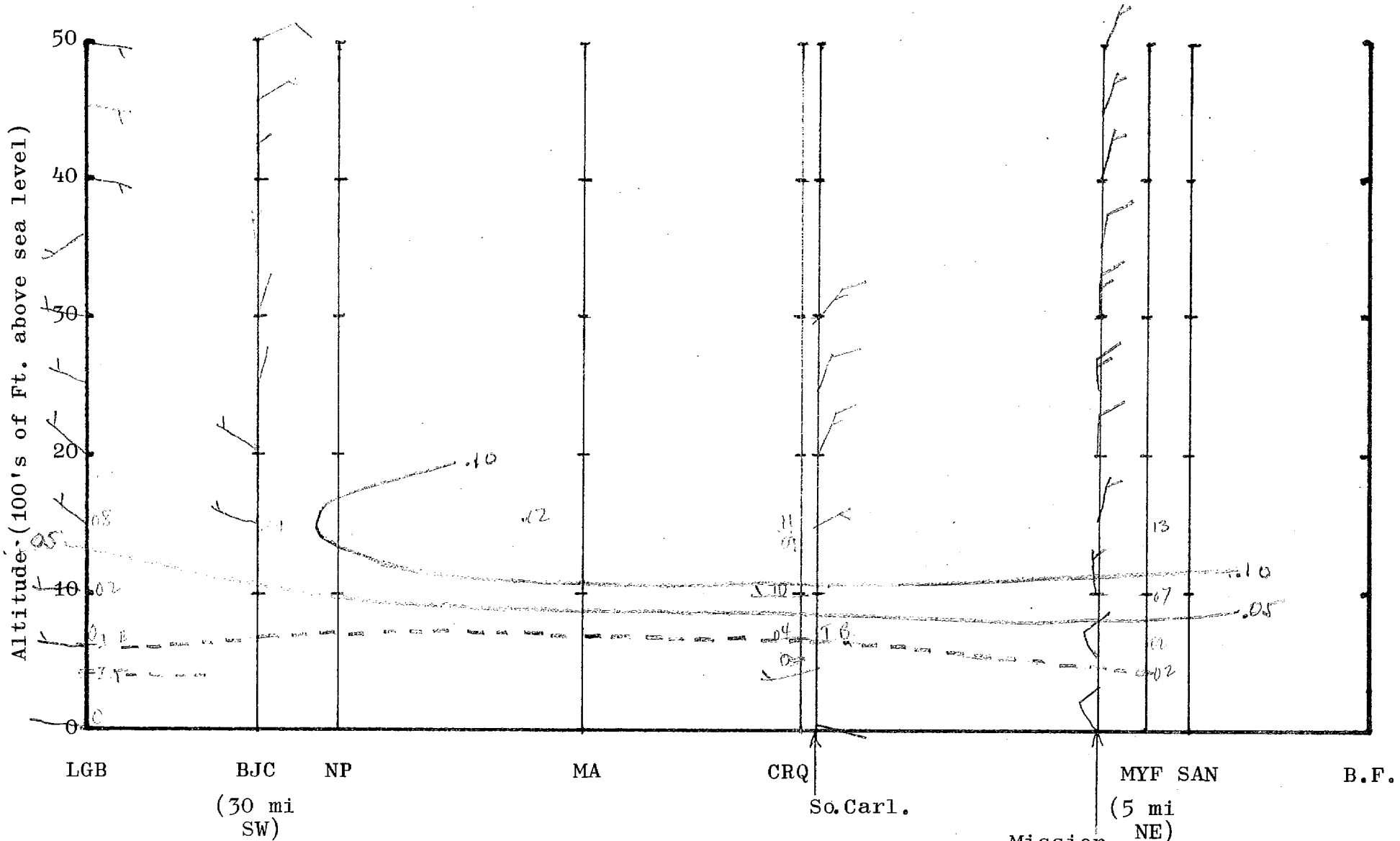



Scale: 10 mi

Cross-section: Long Beach to San Diego

Date 10/6/72

Time (PDT) 2200

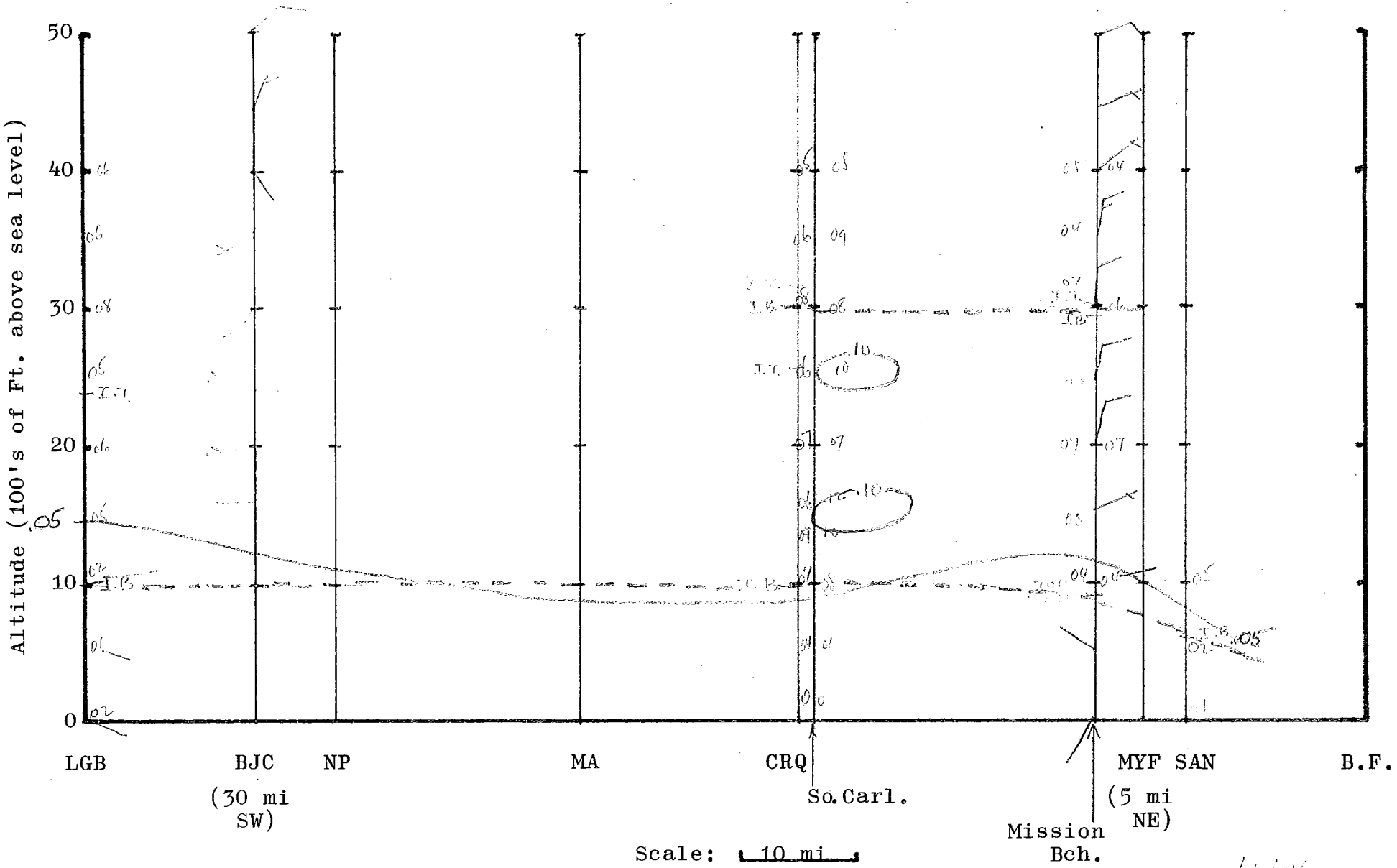



Scale: 10 mi

Cross-section: Long Beach to San Diego

Date 10/5/76

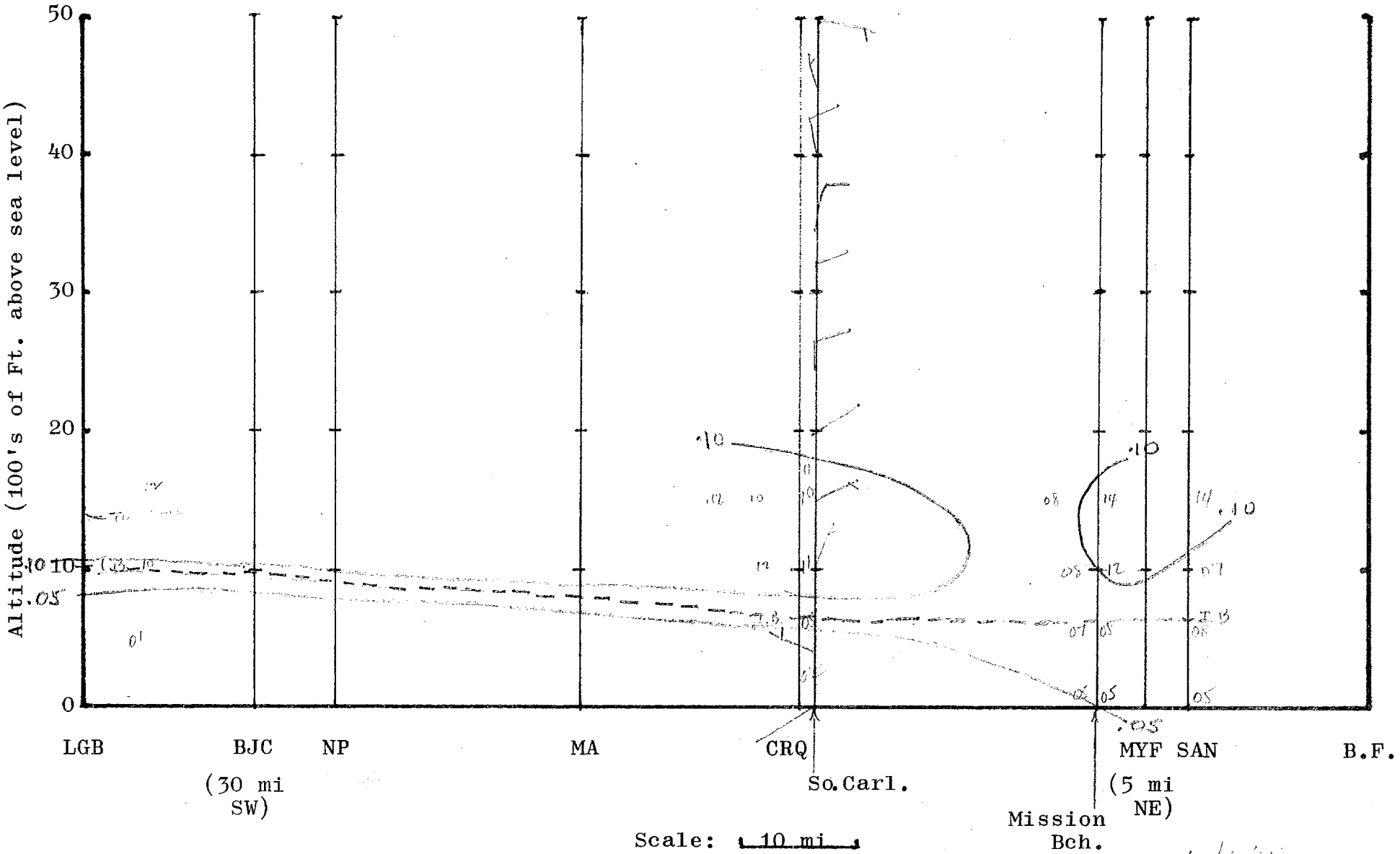
Time (PDT) 2300




Cross-section: Long Beach to San Diego

Date 10/6/76

Time (PDT) 0800

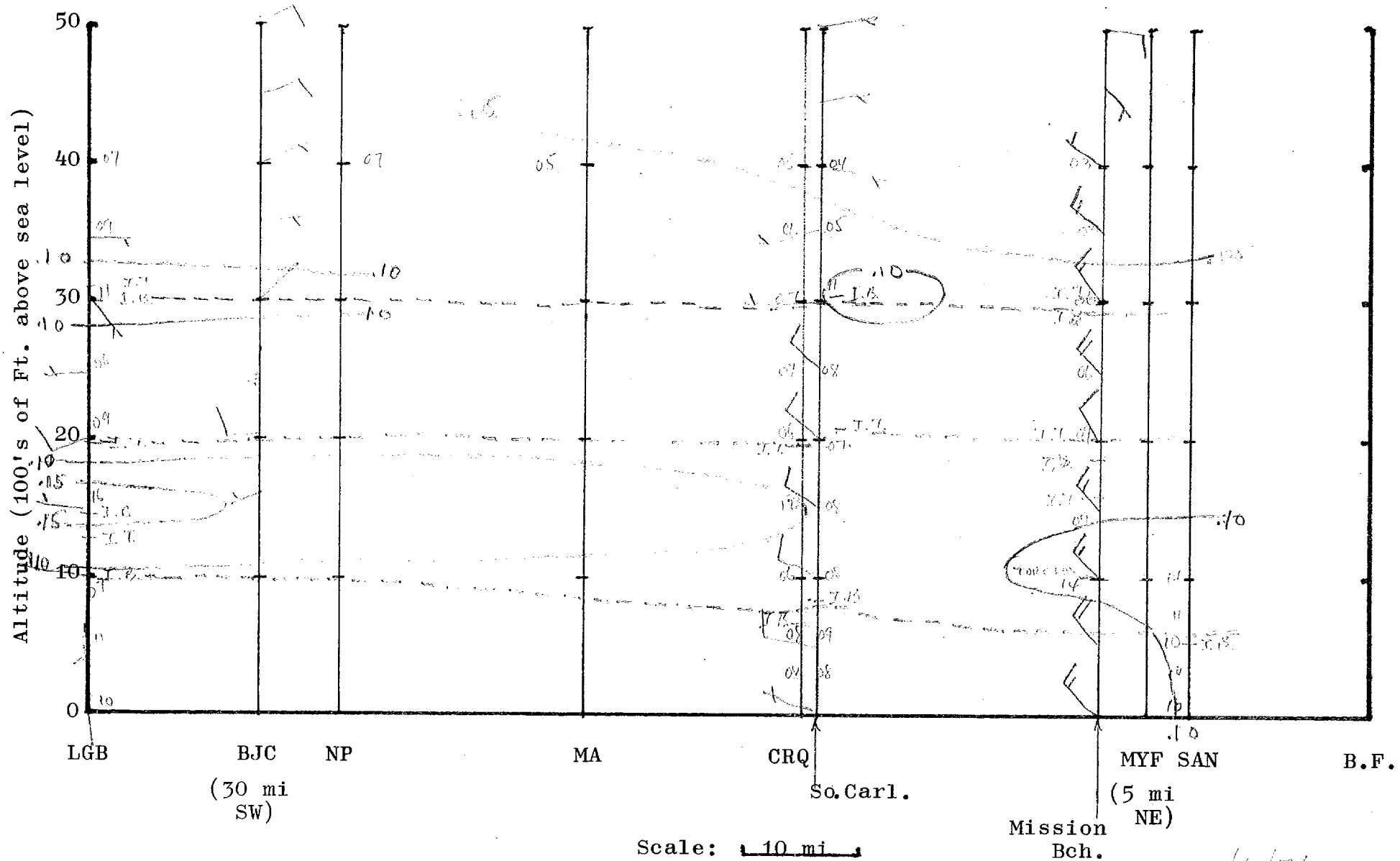



Scale: 10 mi

Date 10/6 '76

Time (PDT) 1200

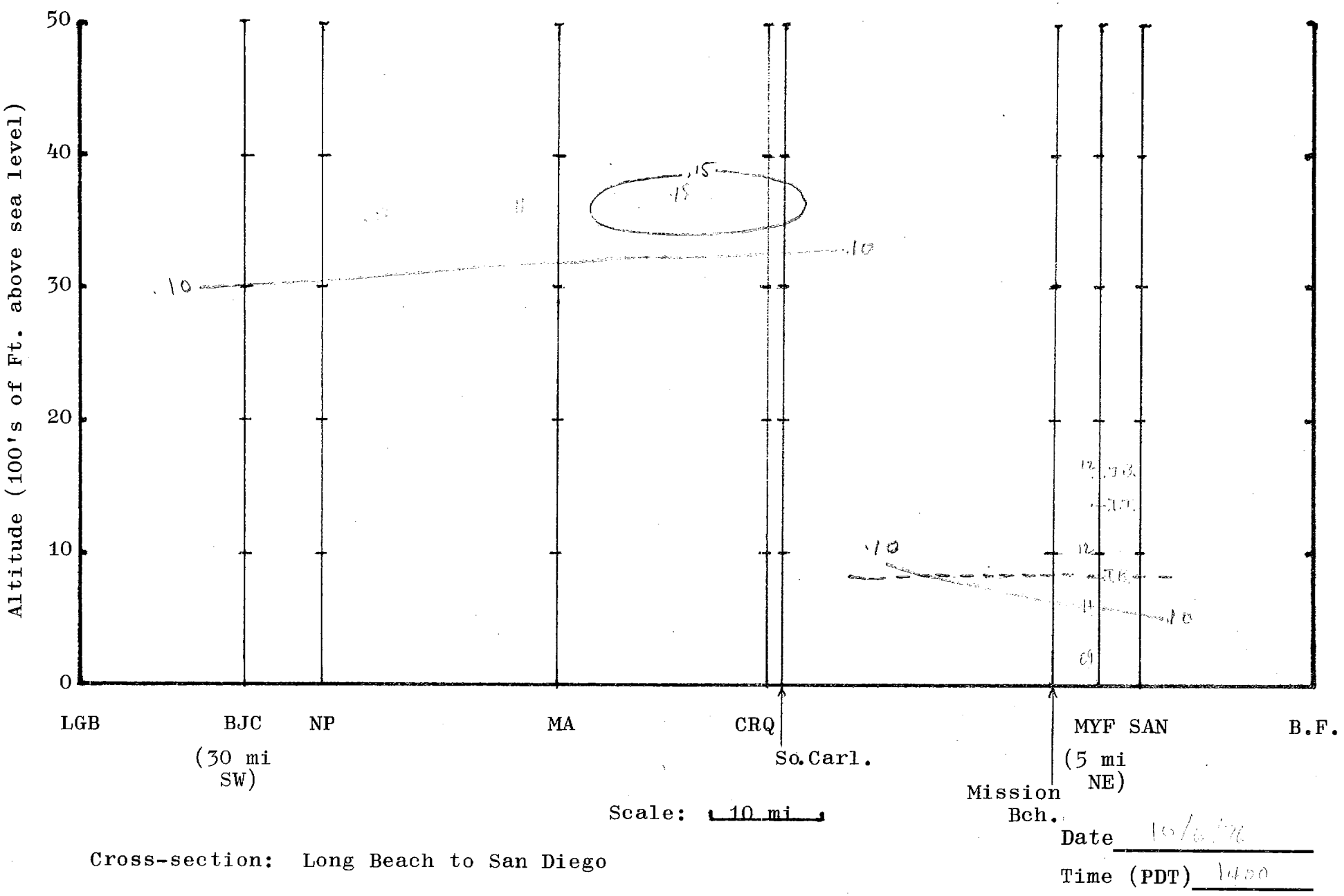
Cross-section: Long Beach to San Diego



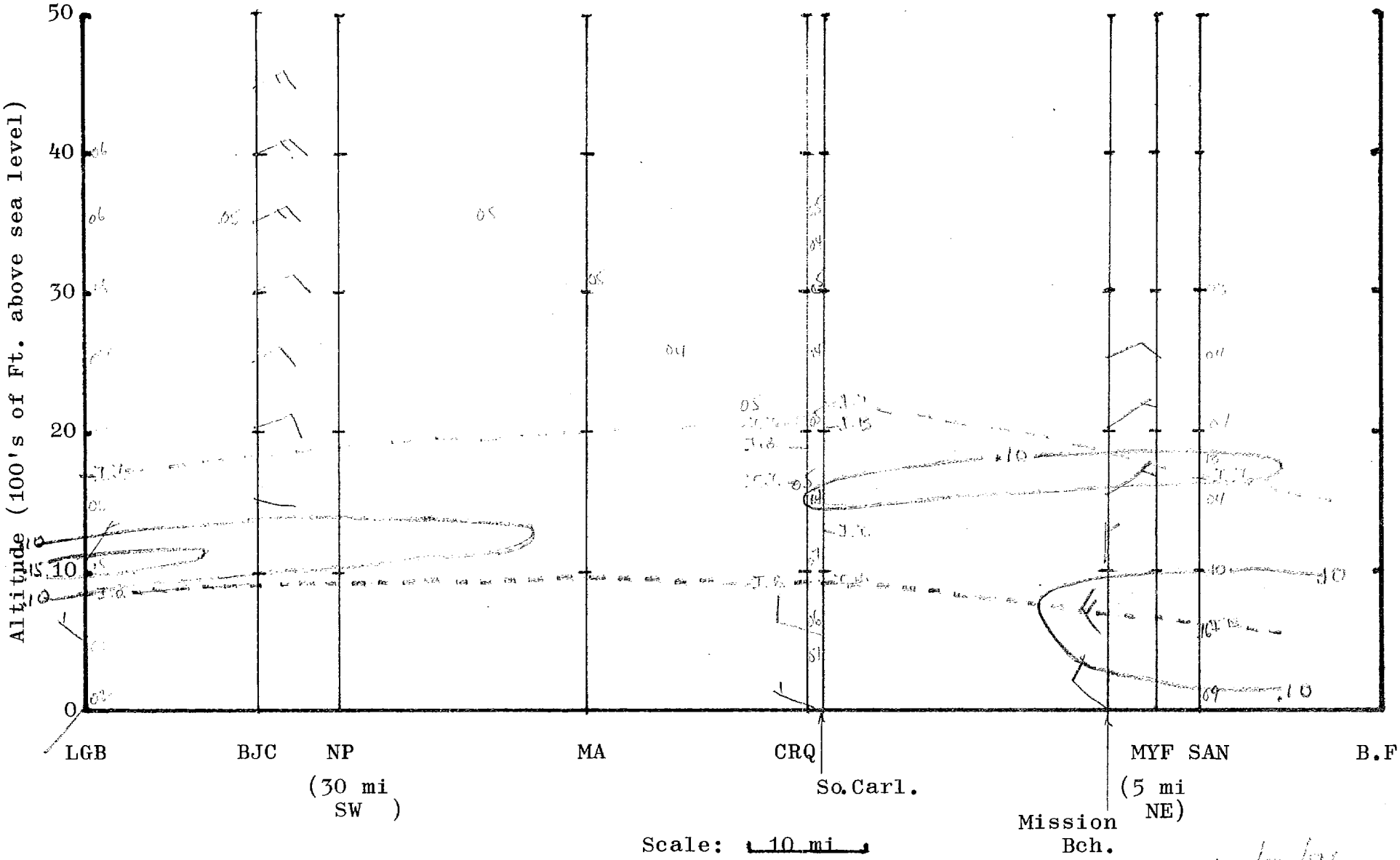

Cross-section: Long Beach to San Diego

Date 10/6/76

Time (PDT) 1300




Cross-section: Long Beach to San Diego

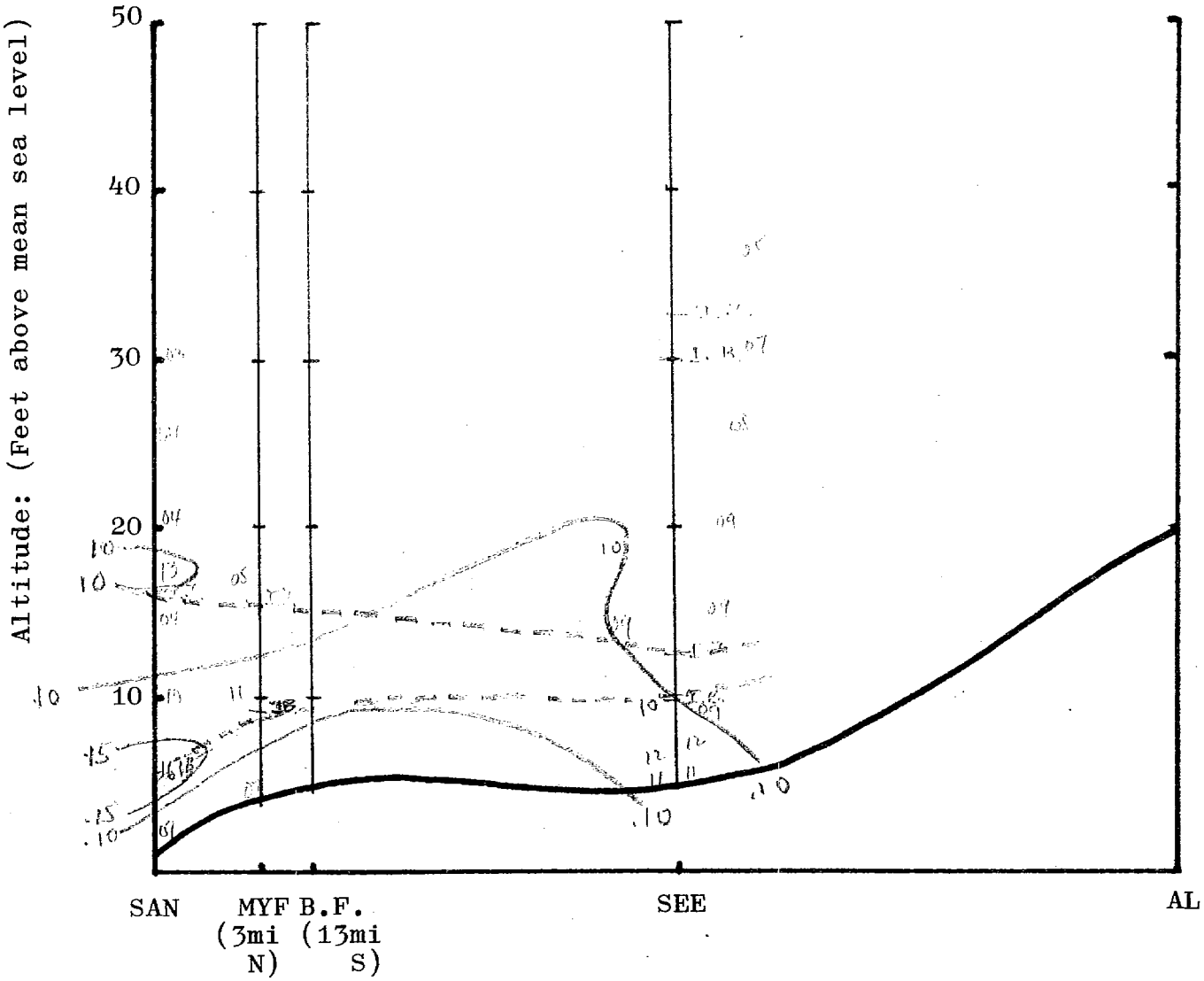



Scale: 10 mi

Cross-section: Long Beach to San Diego

Date 10/7/76

Time (PDT) 1300

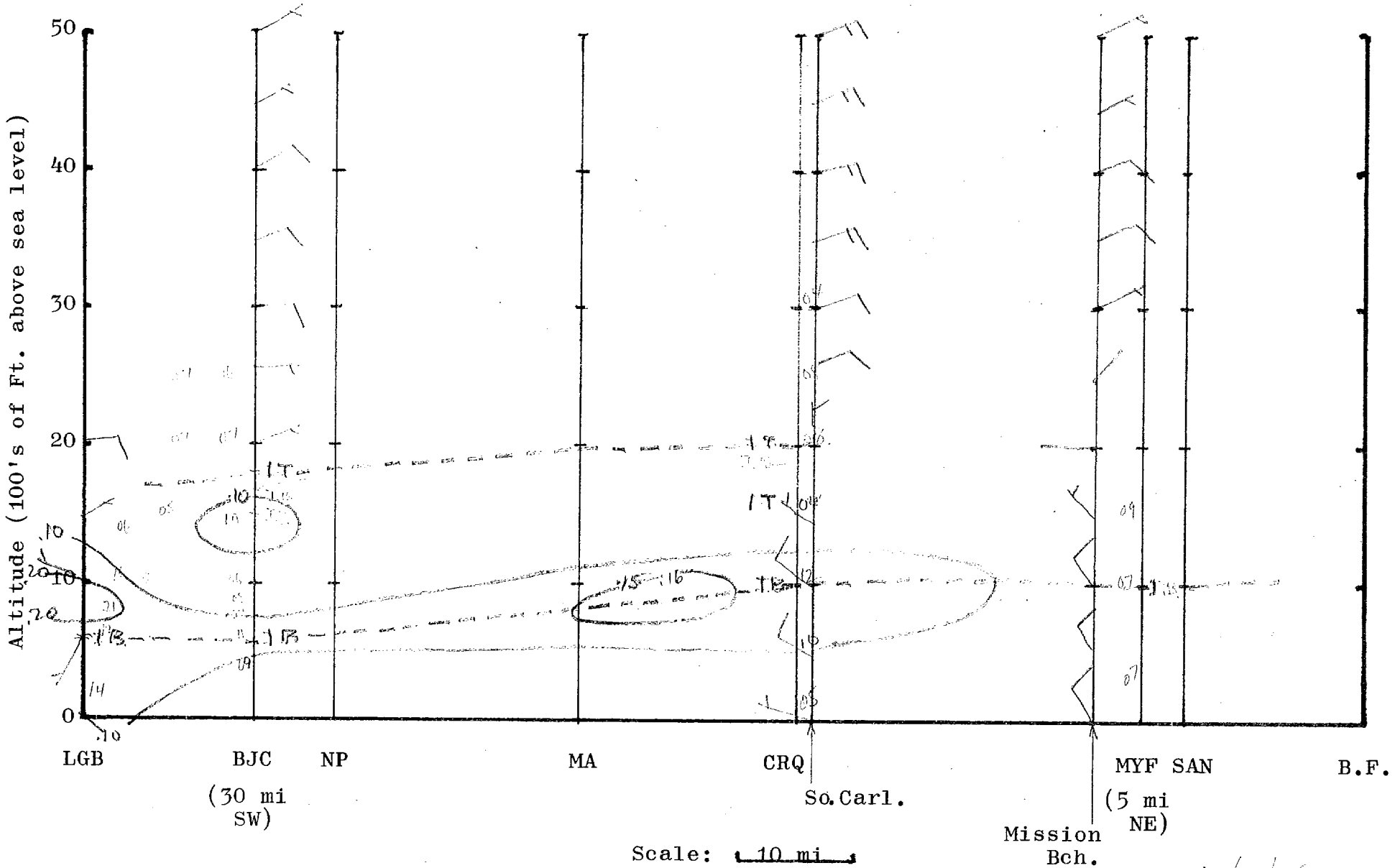



Scale: 10 mi

Date 10/7/76

Cross-section: San Diego to Alpine

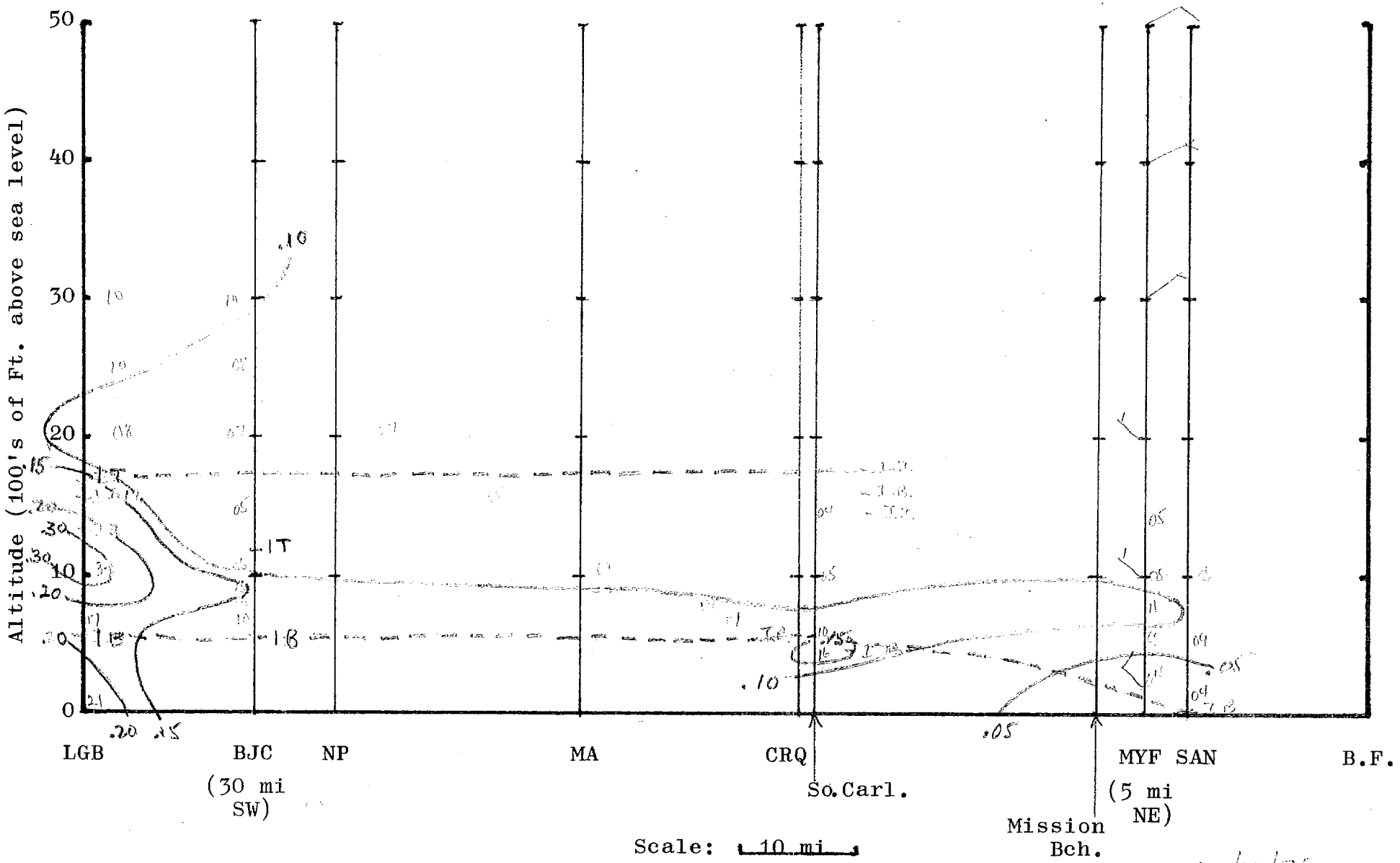
Time(PDT) 1460




Cross-section: Long Beach to San Diego

Date 10/7/76

Time (PDT) 1500


Altitude (100's of Ft. above sea level)
50
40
30
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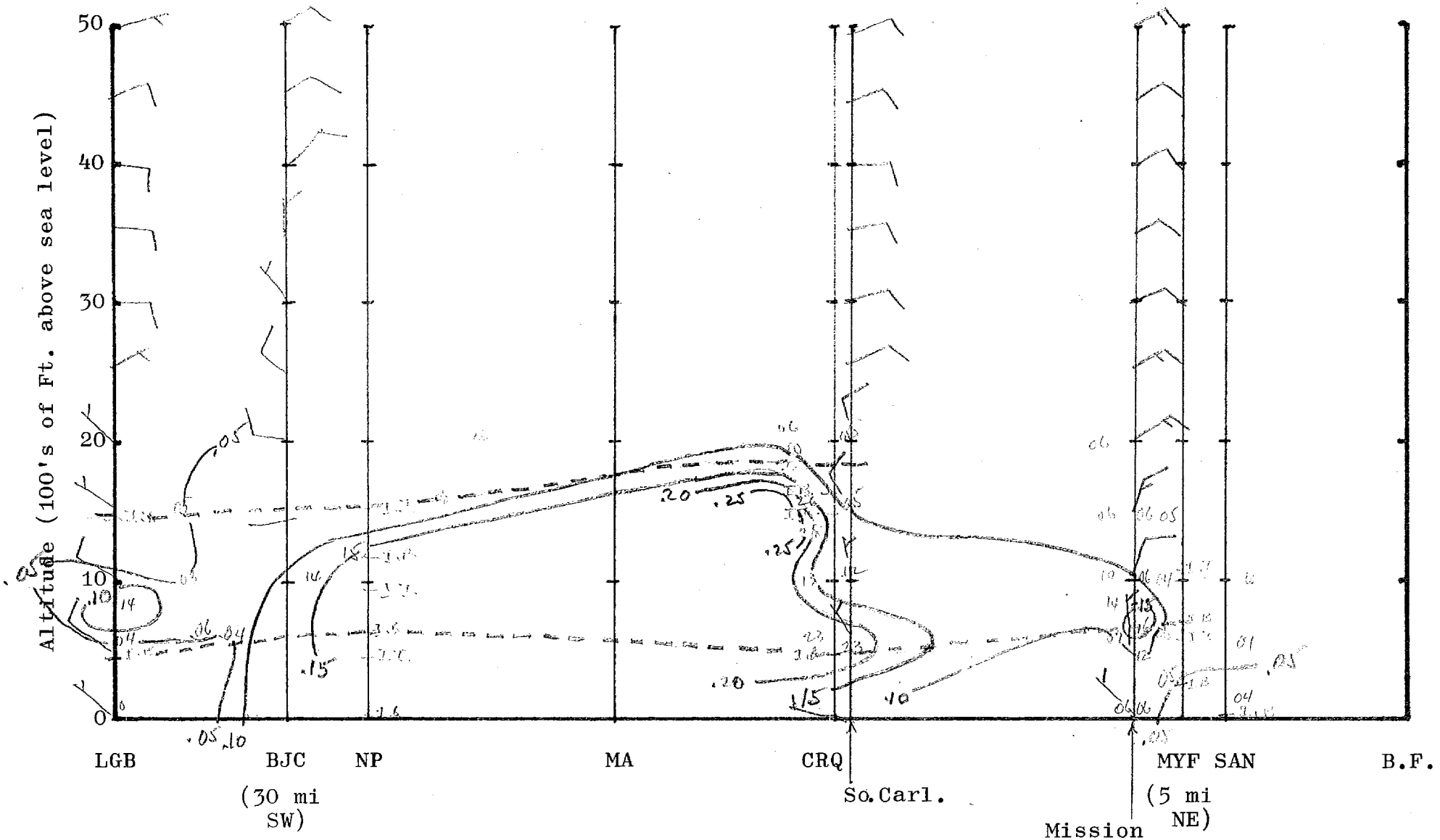
10
0
LGB
BJC
(30 mi SW)
NP
MA
CRQ
So.Carl.
MYF
SAN
(5 mi NE)
Mission Bch.
B.F.
Scale: 10 mi
Date 10/1/76
Time (PDT) 1300
Cross-section: Long Beach to San Diego

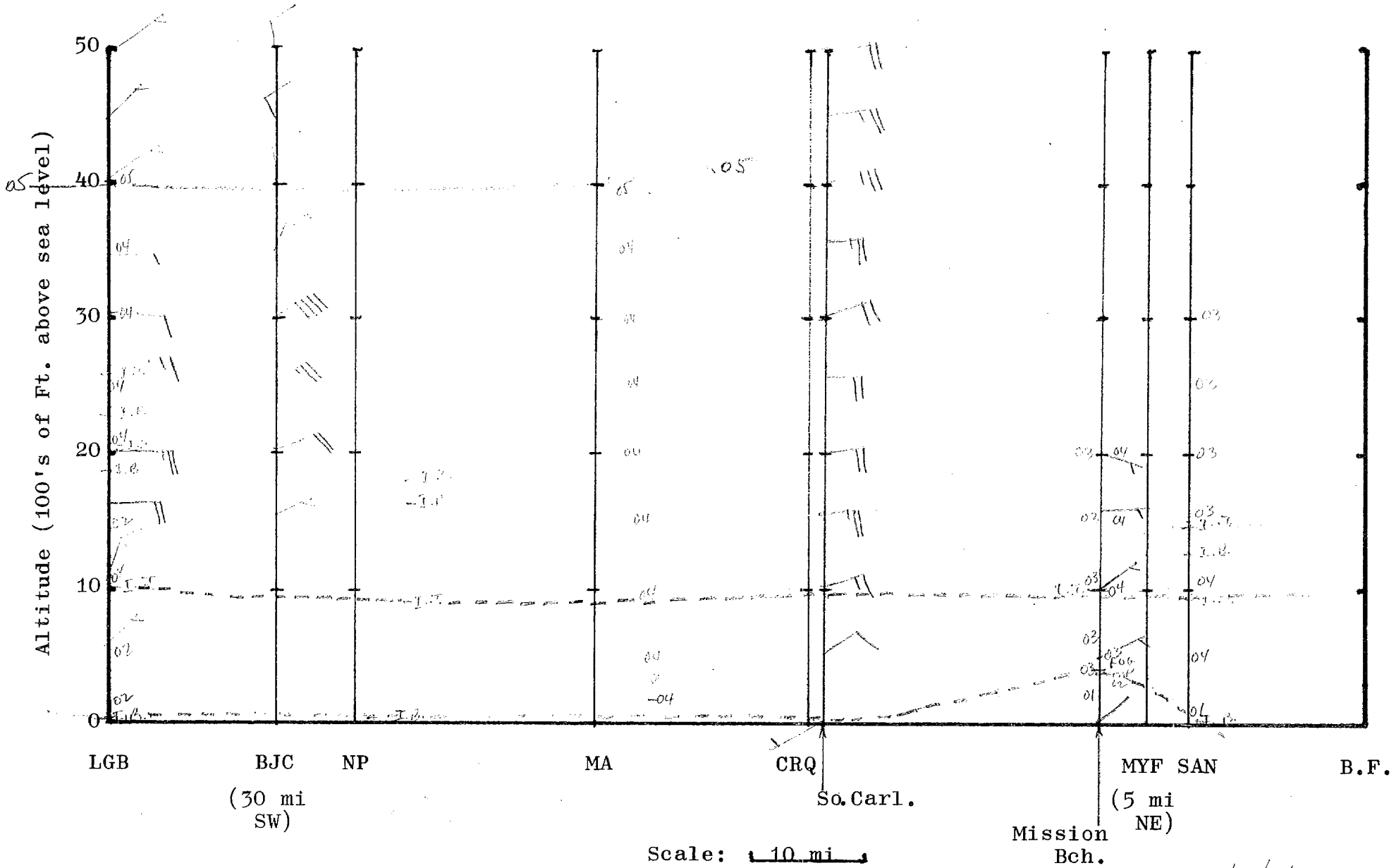



Scale: 10 mi

Cross-section: Long Beach to San Diego

Date 10/7/76

Time (PDT) 1900

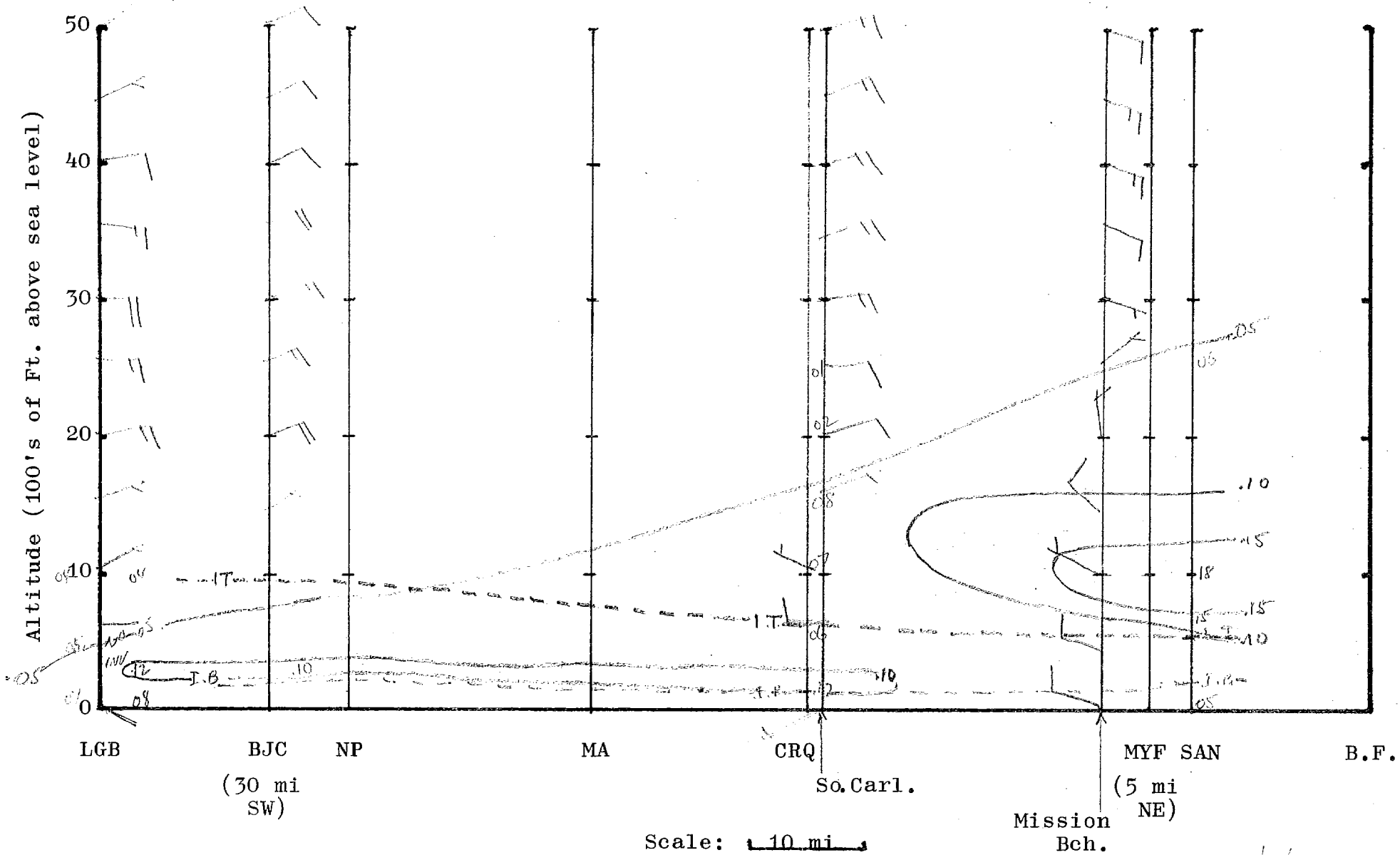



Scale: 10 mi

Cross-section: Long Beach to San Diego

Date 10/8/14

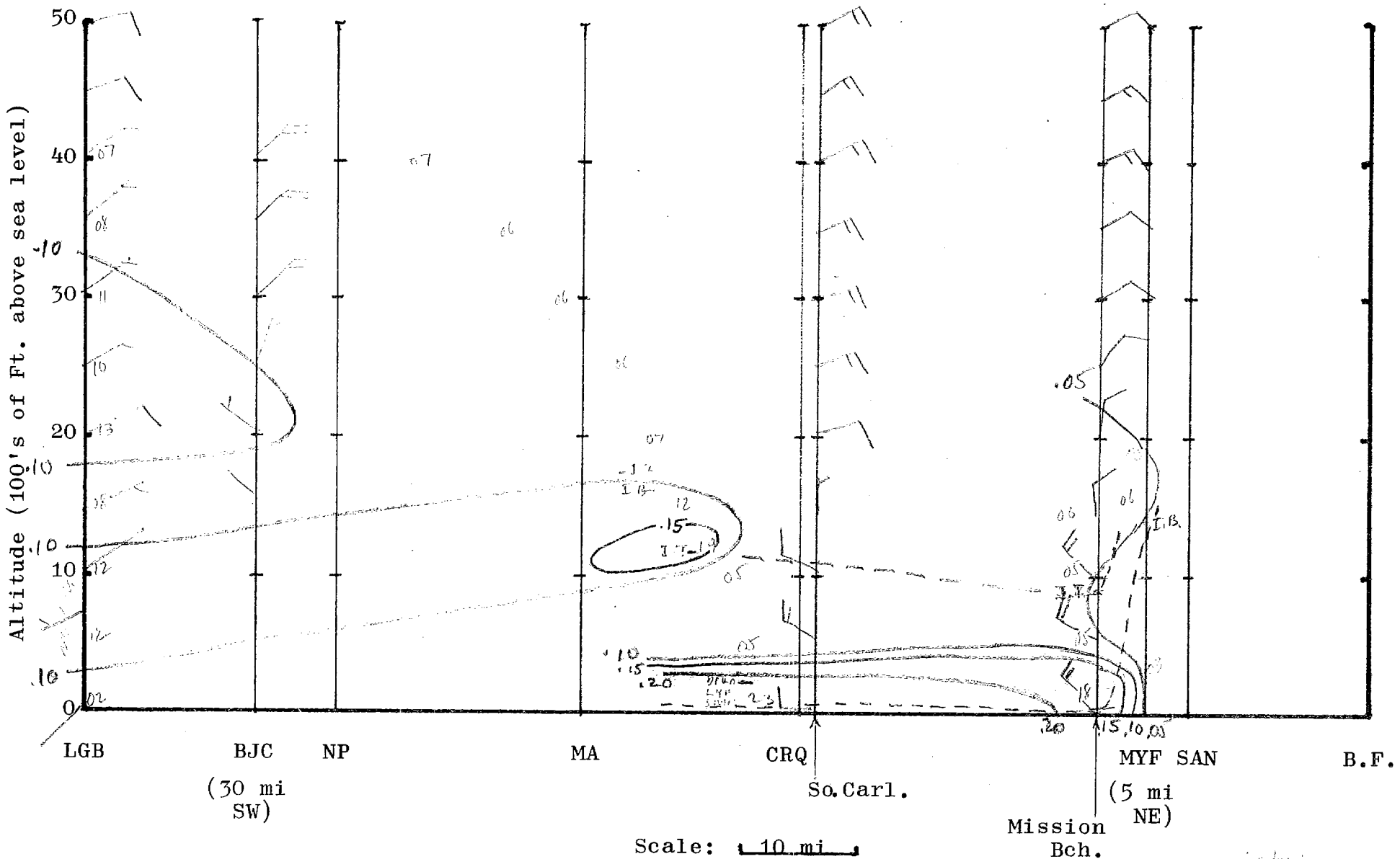
Time (PDT) 0600




Cross-section: Long Beach to San Diego

Date 10/8/76

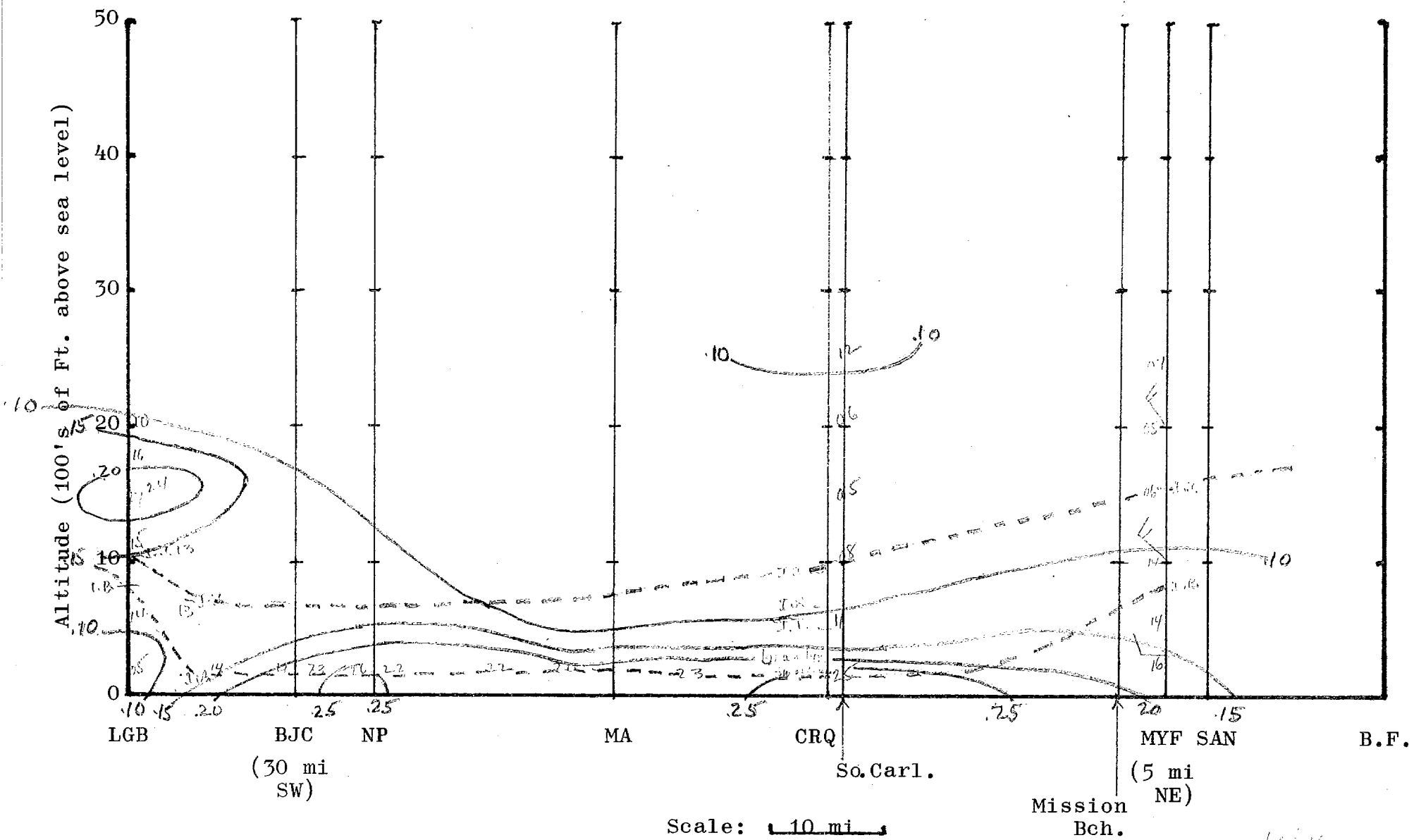
Time (PDT) 1200




Cross-section: Long Beach to San Diego

Date 10/8/76

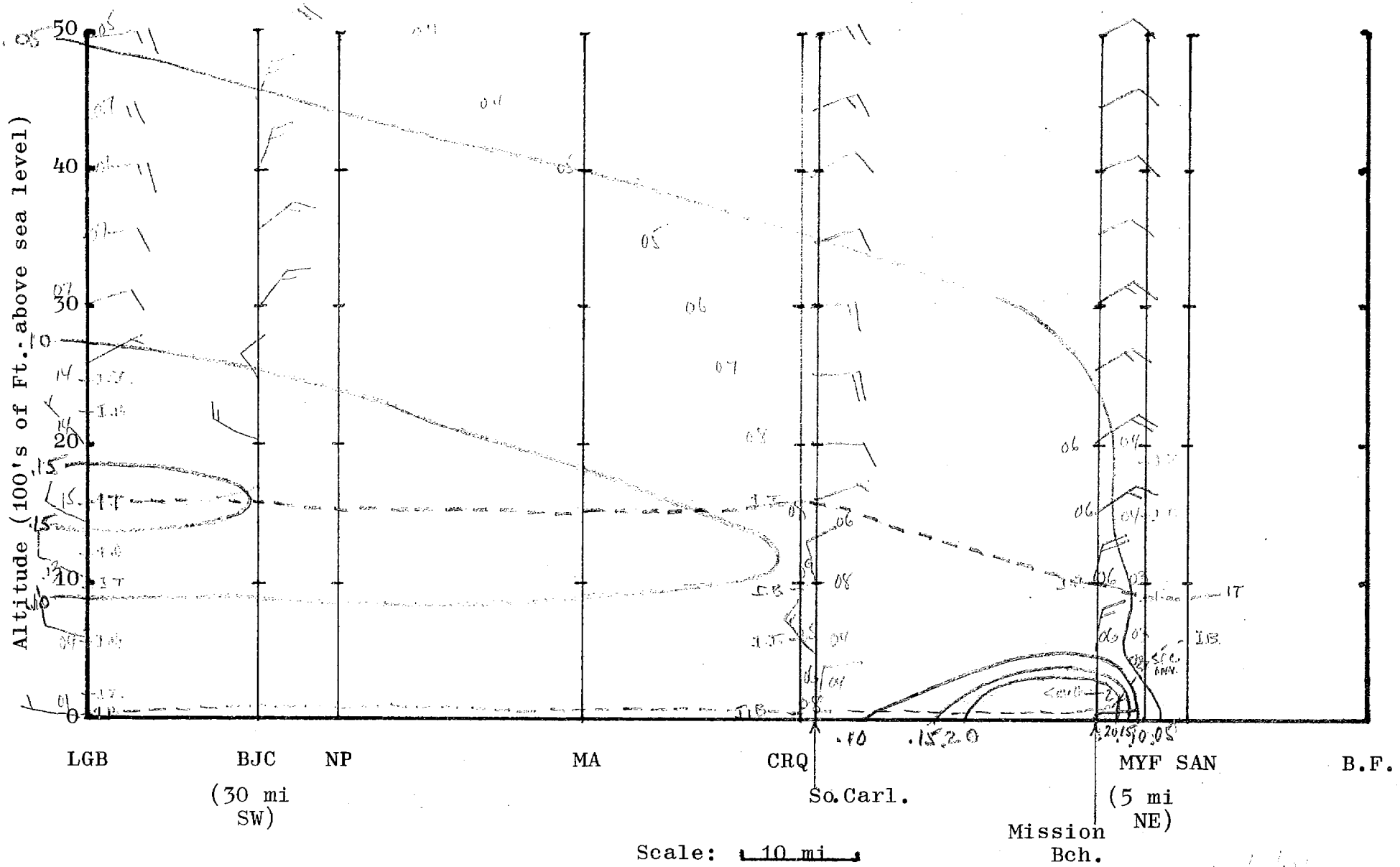
Time (PDT) 1500




Cross-section: Long Beach to San Diego

Date 10/8/76

Time (PDT) 1700

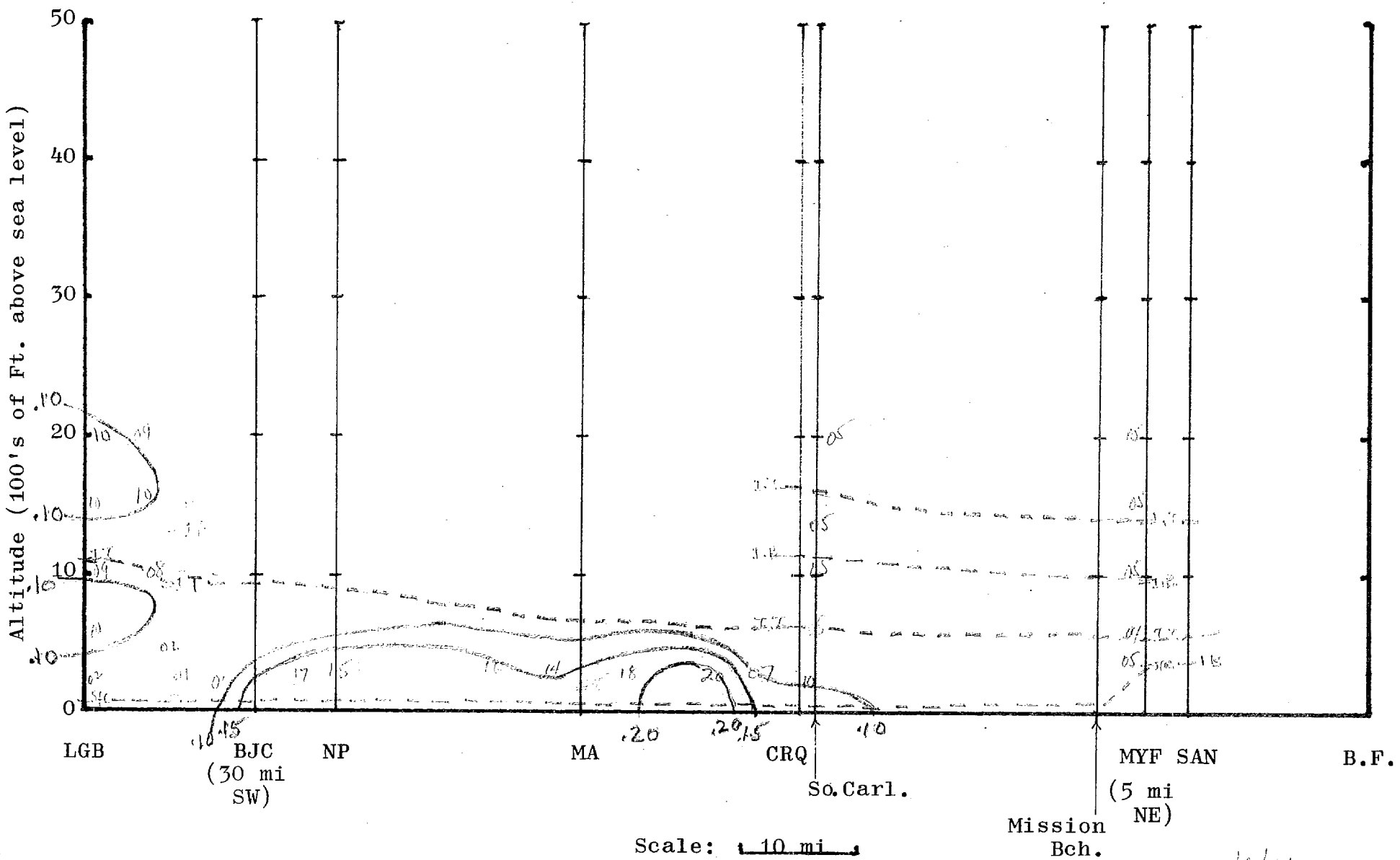



Scale: 10 mi

Cross-section: Long Beach to San Diego

Date 10/5/82

Time (PDT) 1800

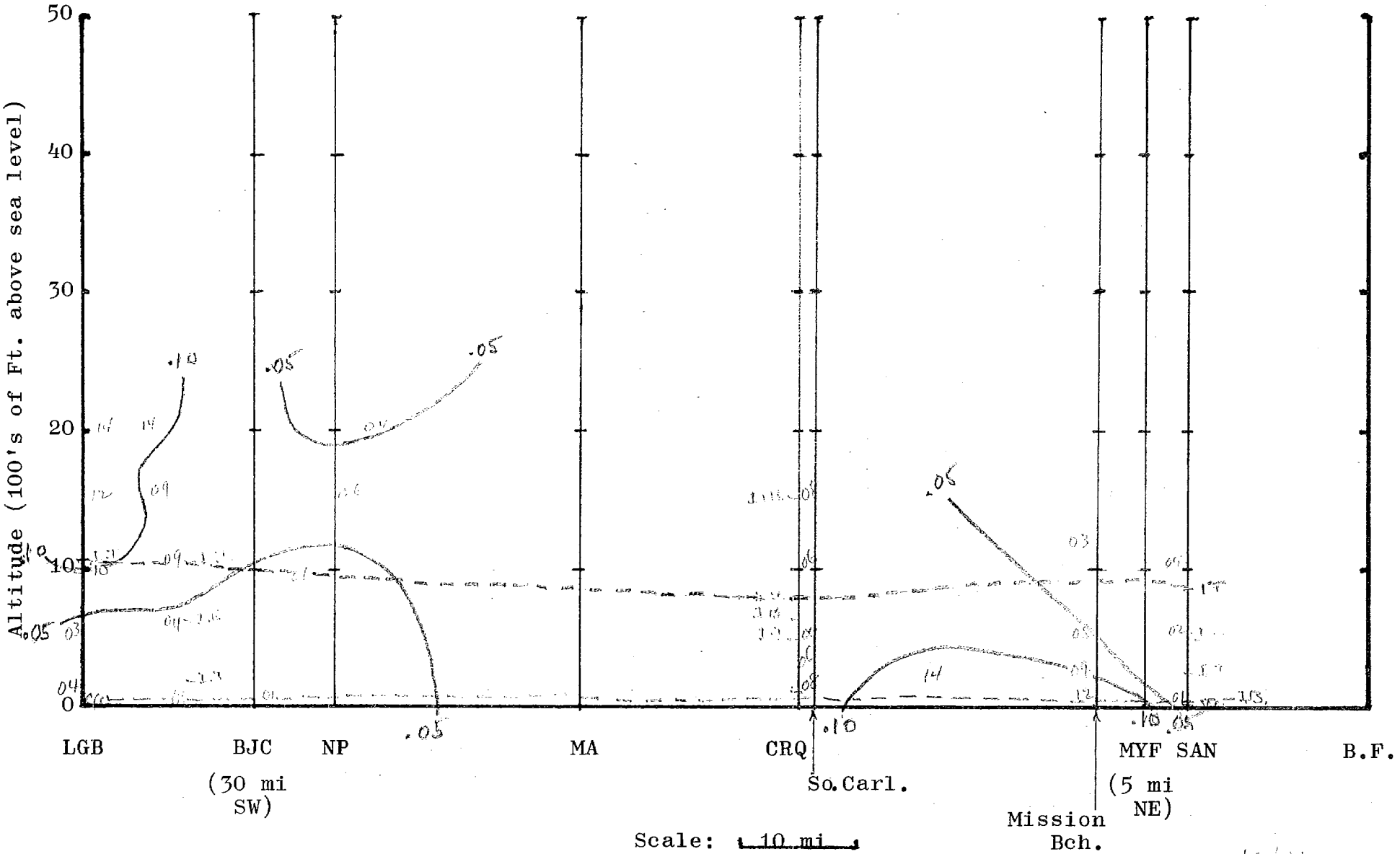



Scale: 10 mi

Cross-section: Long Beach to San Diego

Date 10/2/76

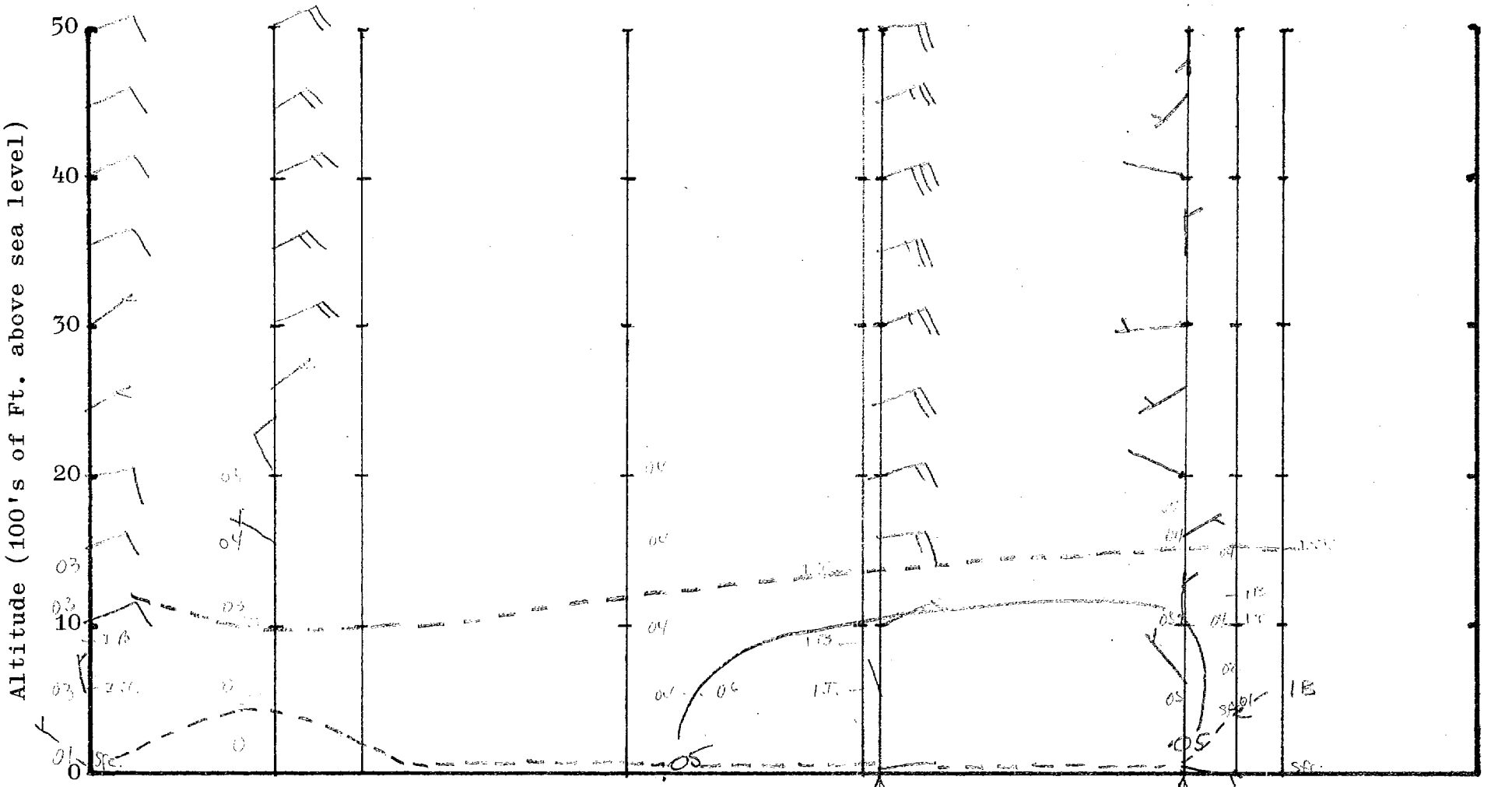
Time (PDT) 2000




Cross-section: Long Beach to San Diego

Date 10/8/76

Time (PDT) 9700

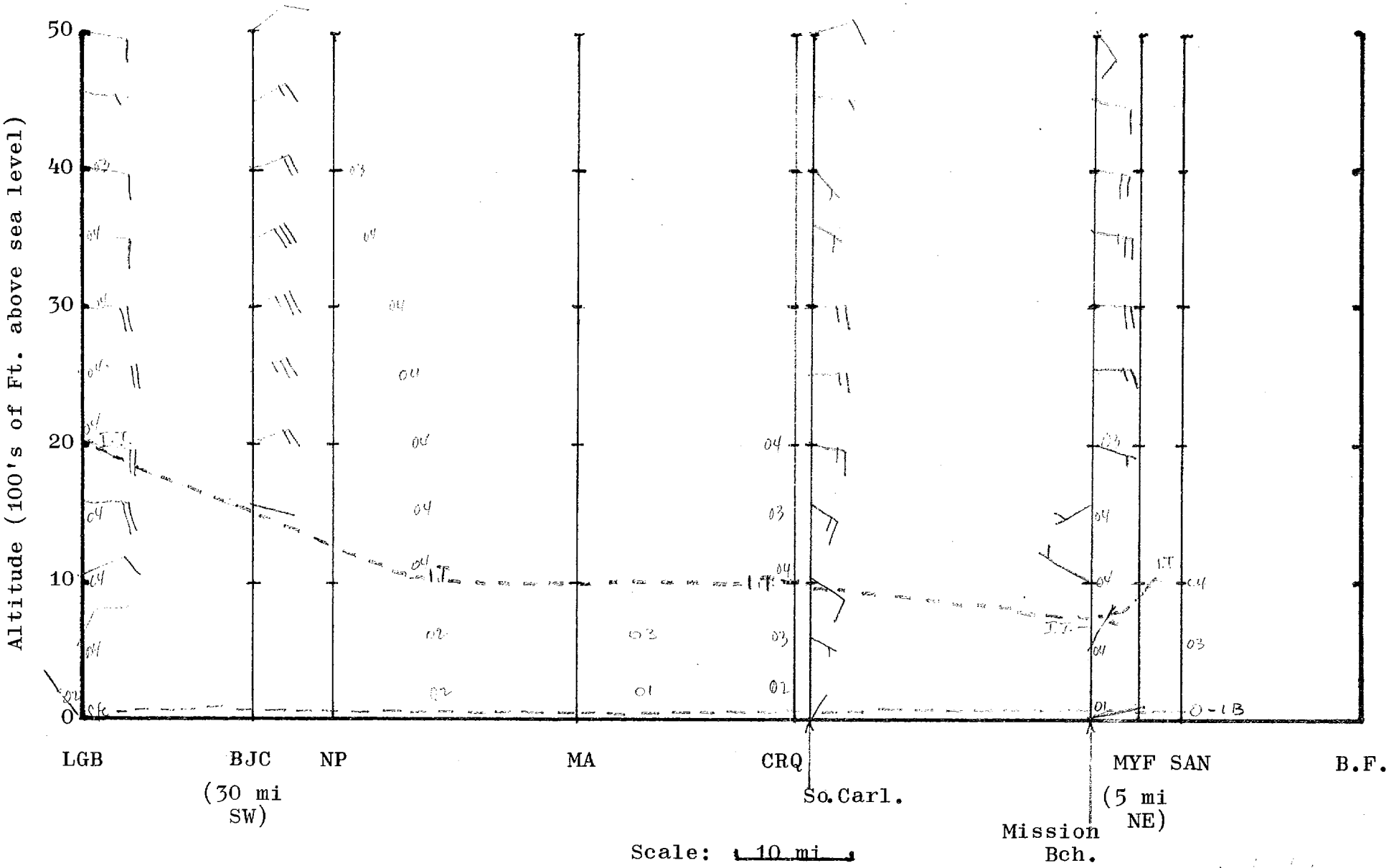



Scale: 10 mi

Cross-section: Long Beach to San Diego

Date 10/[illegible]

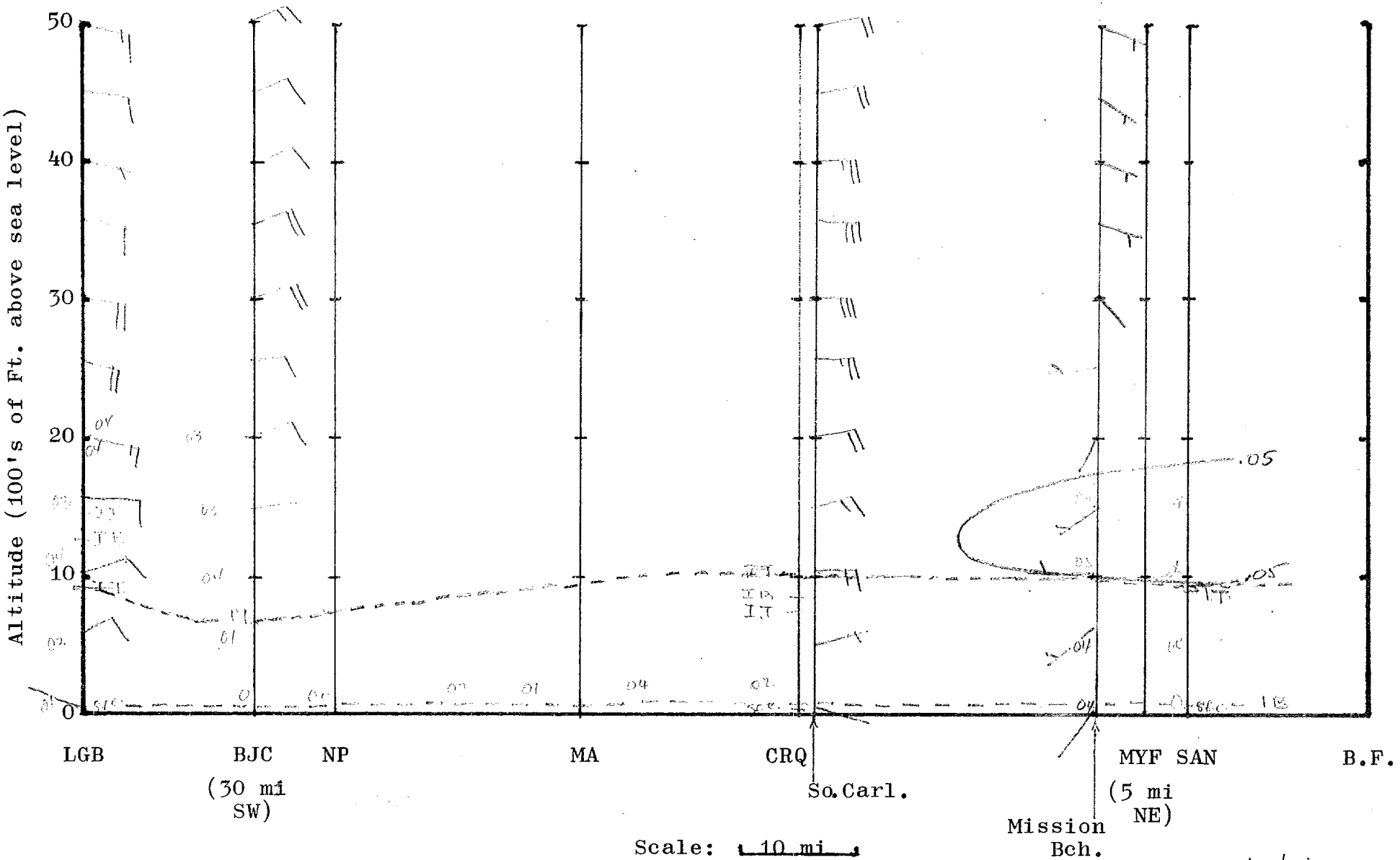
Time (PDT) [illegible]




Cross-section: Long Beach to San Diego

Date 1-7-72

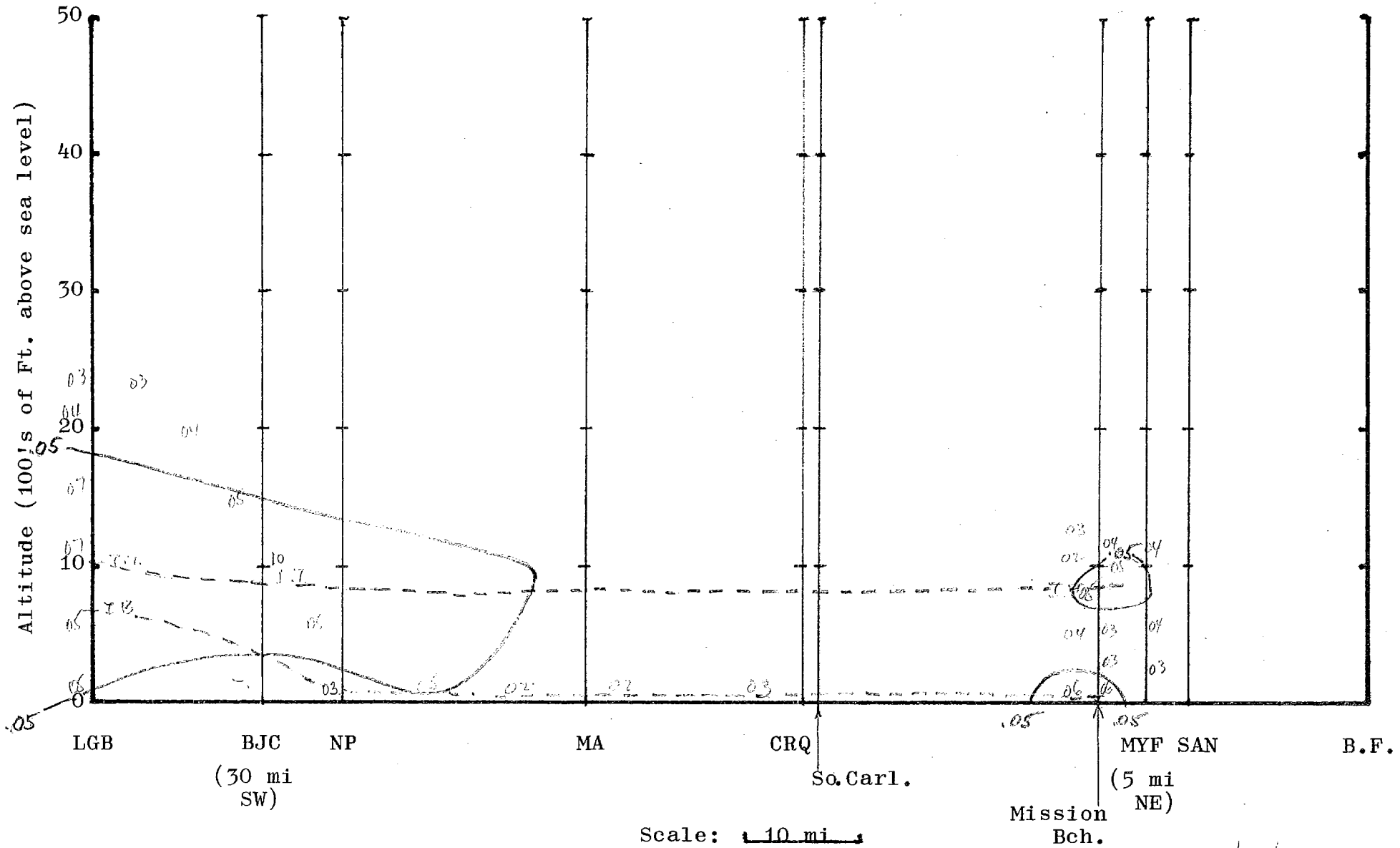
Time (PDT) 0800




Cross-section: Long Beach to San Diego

Date 10/9/74

Time (PDT) 0800

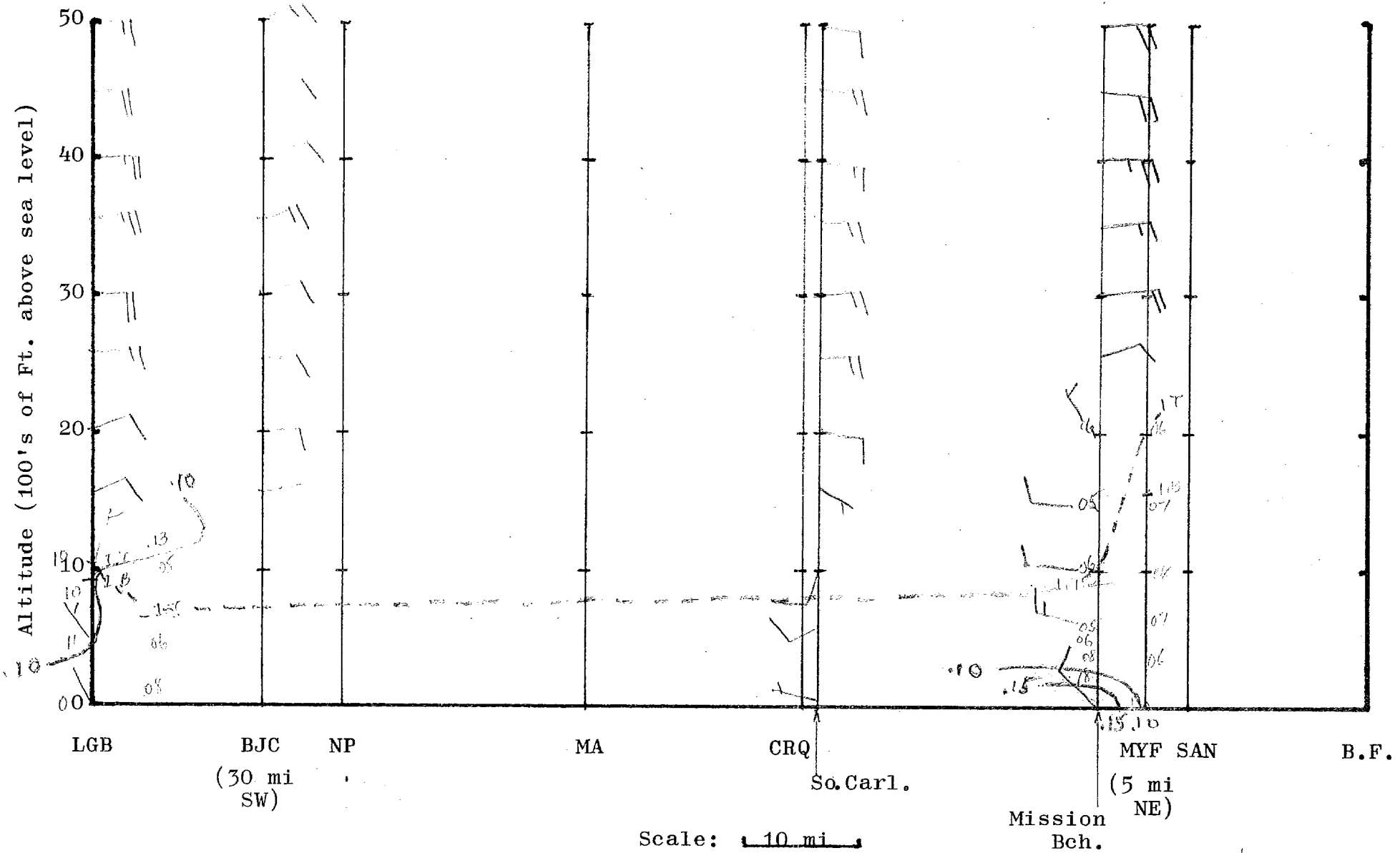



Scale: 10 mi

Date 10/7/76

Time (PDT) 1100

Cross-section: Long Beach to San Diego

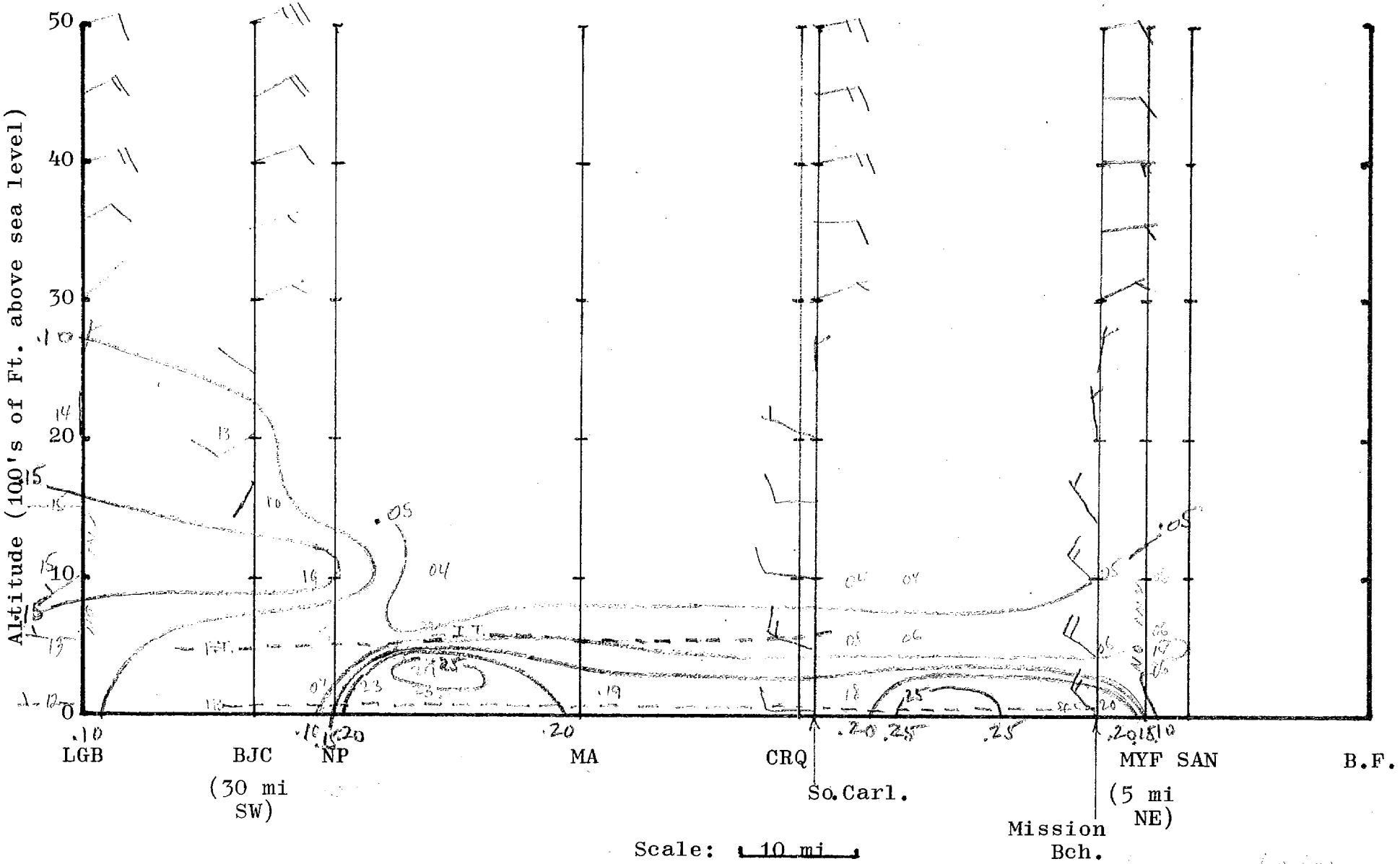



Scale: 10 mi

Cross-section: Long Beach to San Diego

Date 10/9/74

Time (PDT) 12 noon

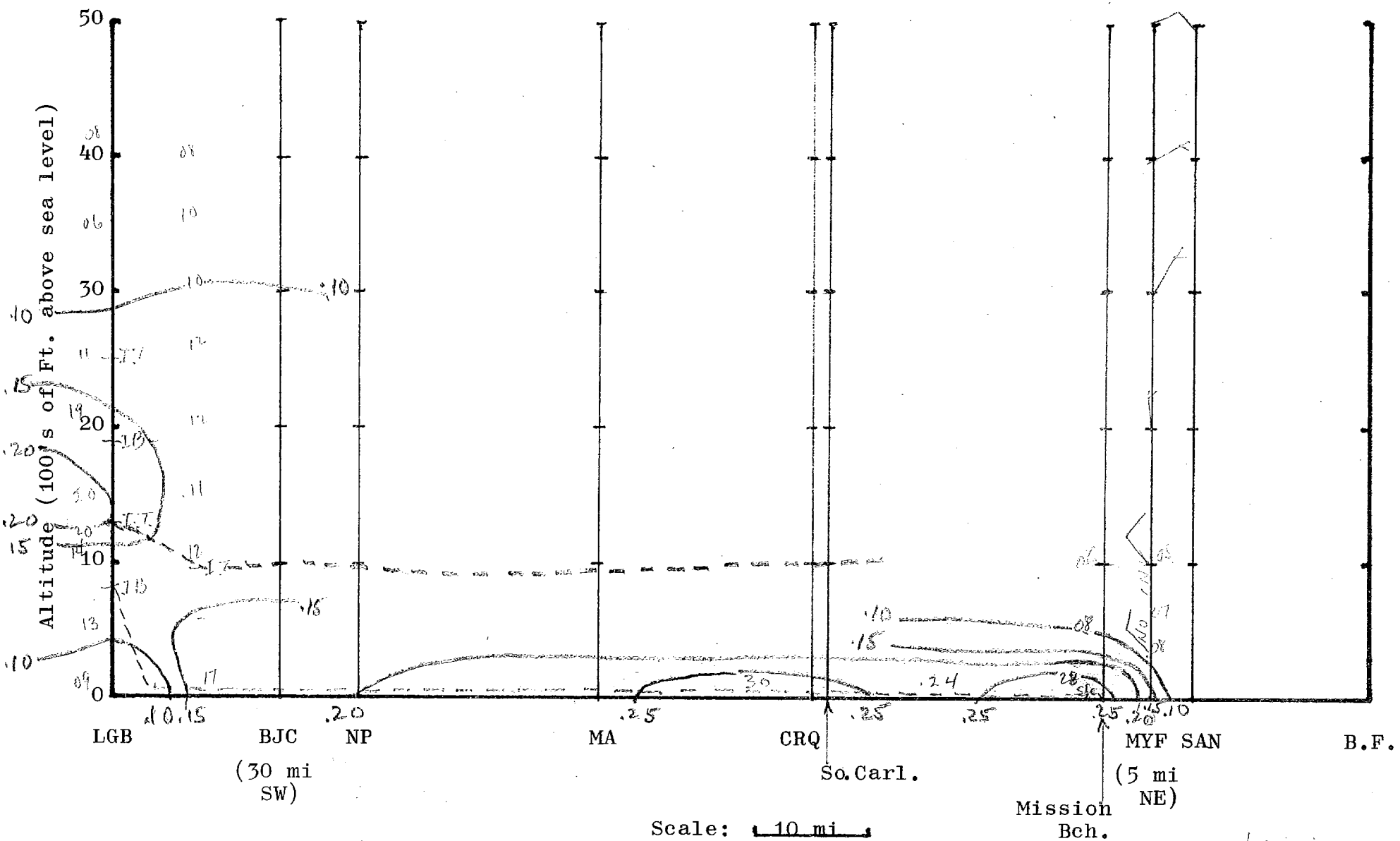



Scale: 10 mi

Cross-section: Long Beach to San Diego

Date 10/9/72

Time (PDT) 1500

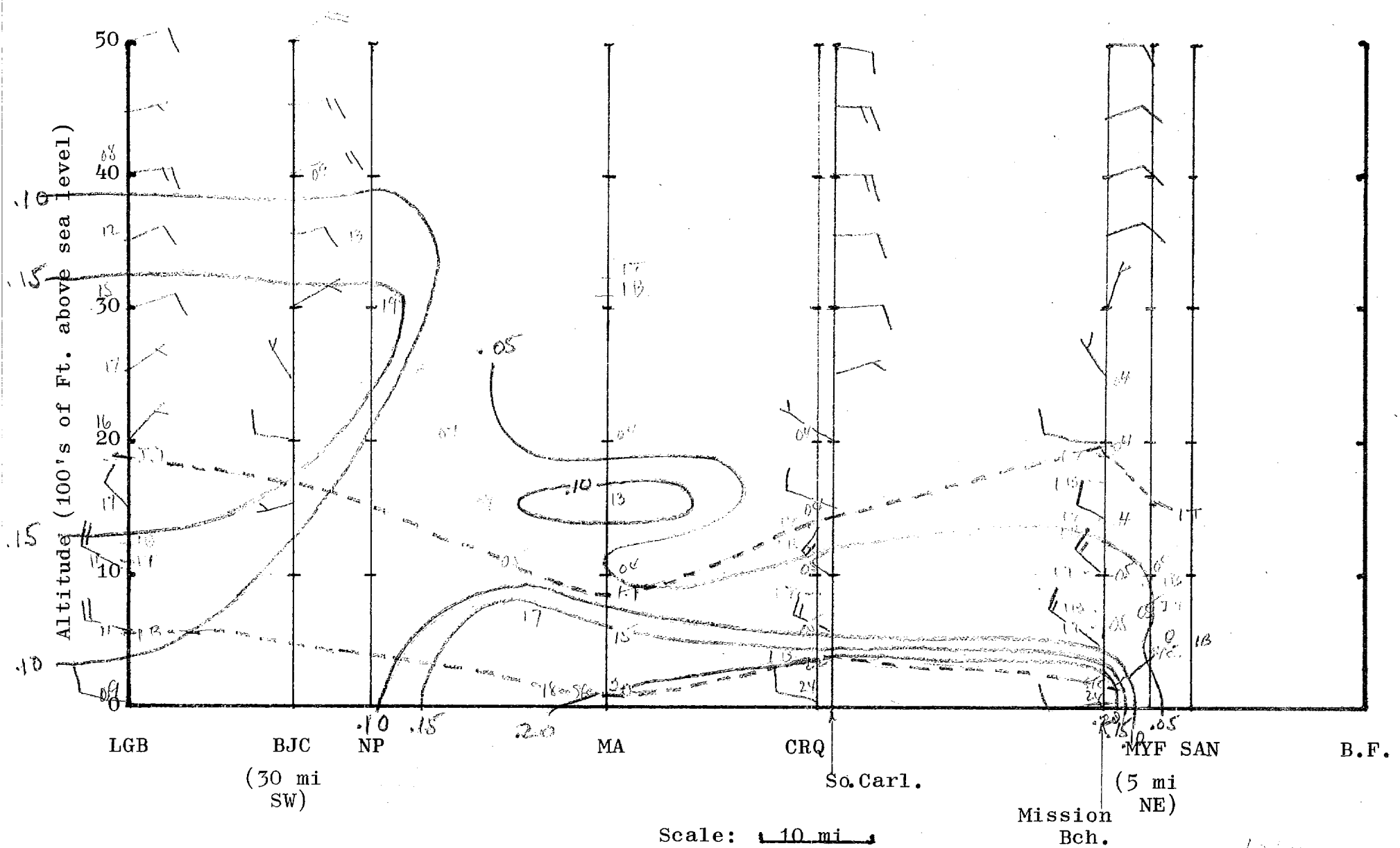



Scale: 10 mi

Cross-section: Long Beach to San Diego

Date 10/[illegible]

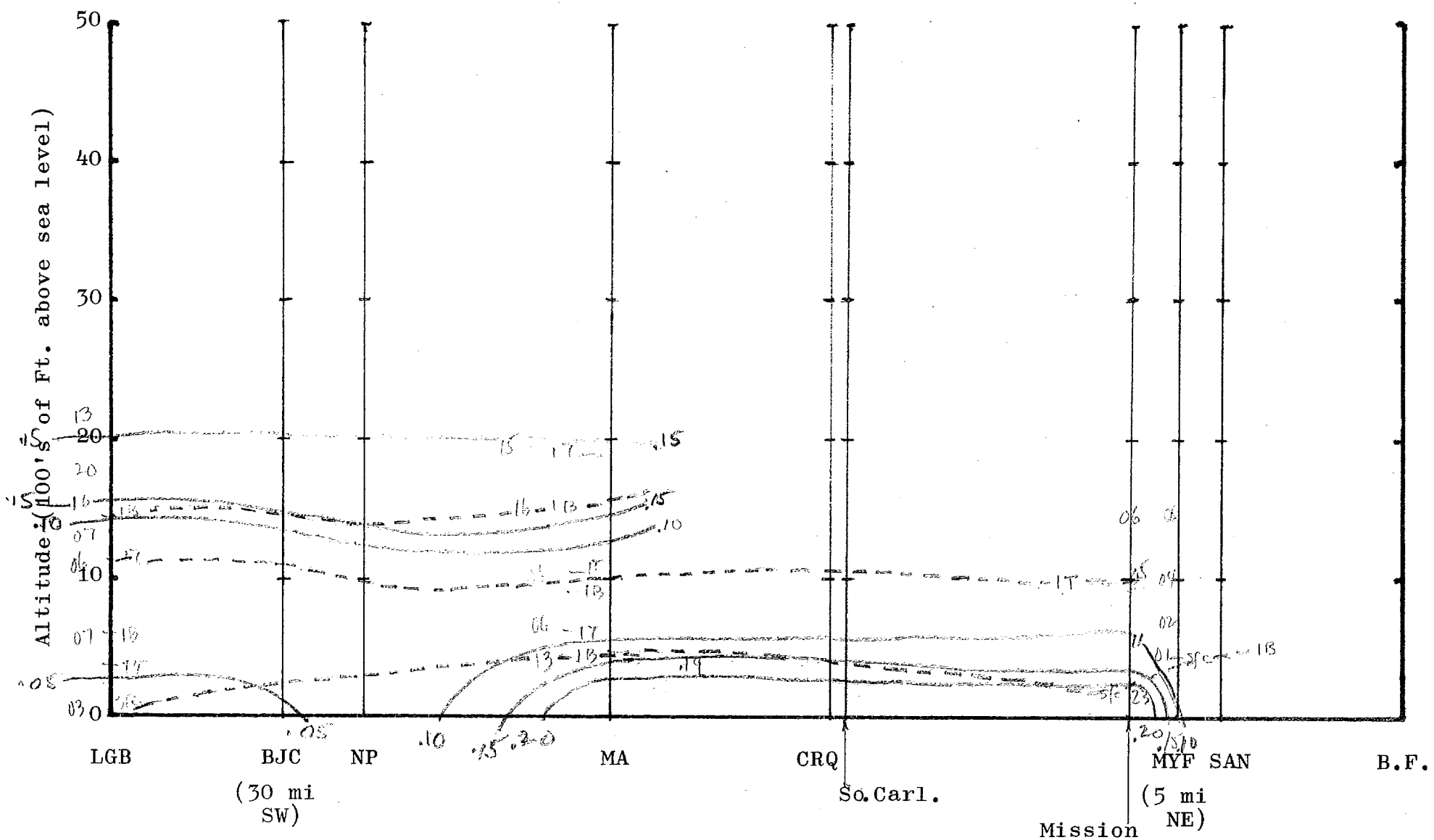
Time (PDT) 1600




Cross-section: Long Beach to San Diego

Date 10/27/76

Time (PDT) 1900

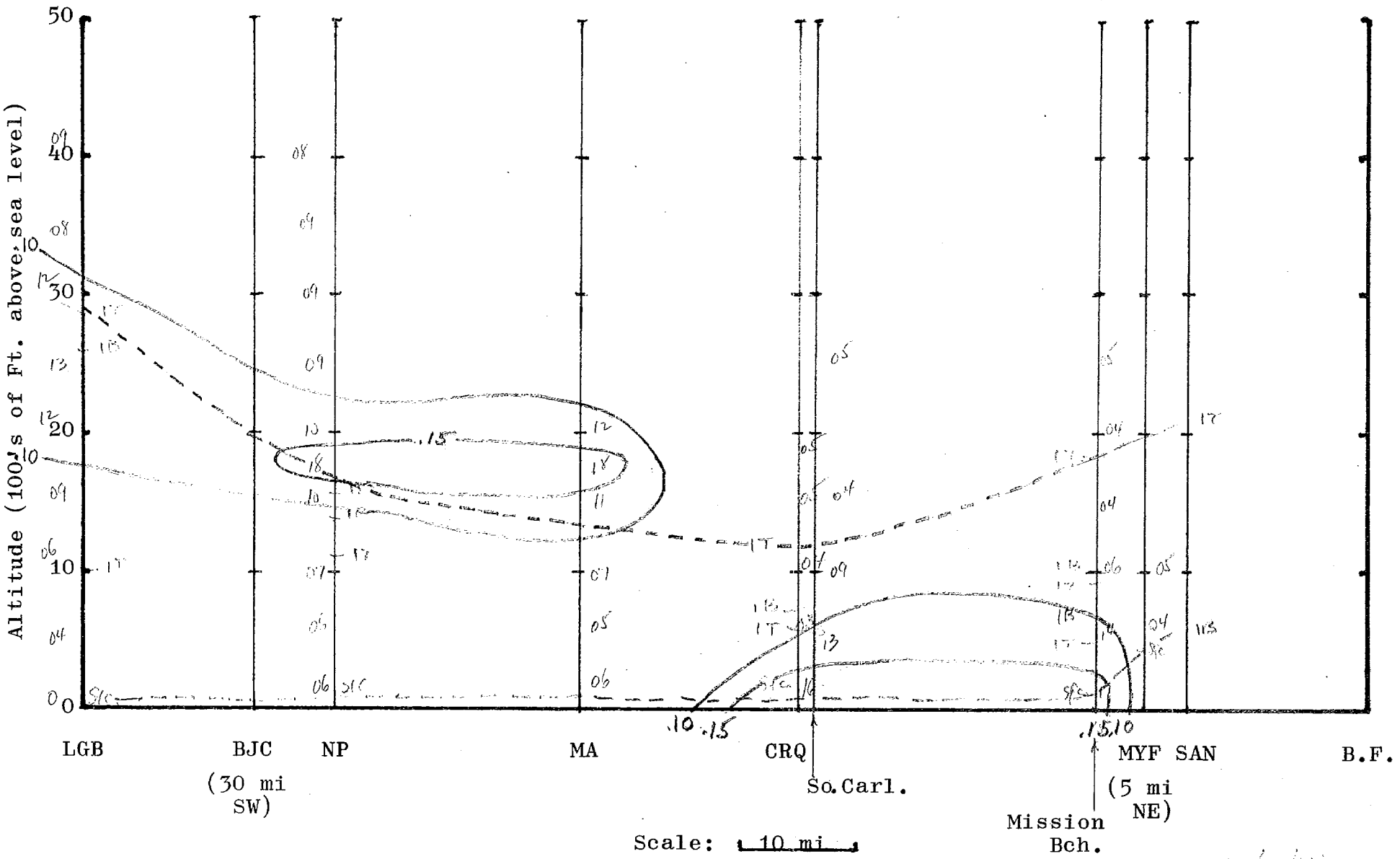



Scale: 10 mi

Cross-section: Long Beach to San Diego

Date 10/4/76

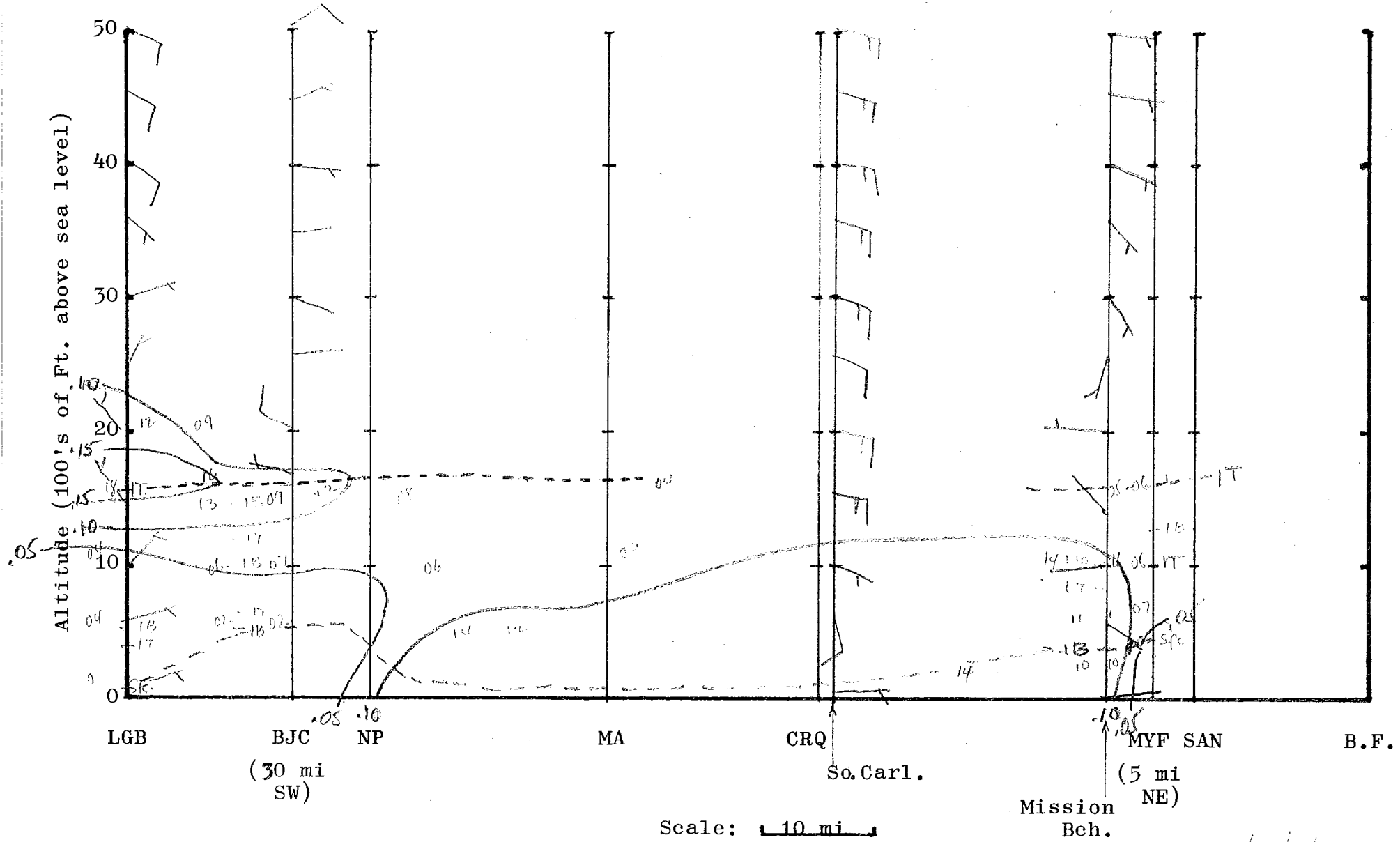
Time (PDT) 1900




Cross-section: Long Beach to San Diego

Date 10/4/78

Time (PDT) 12:00

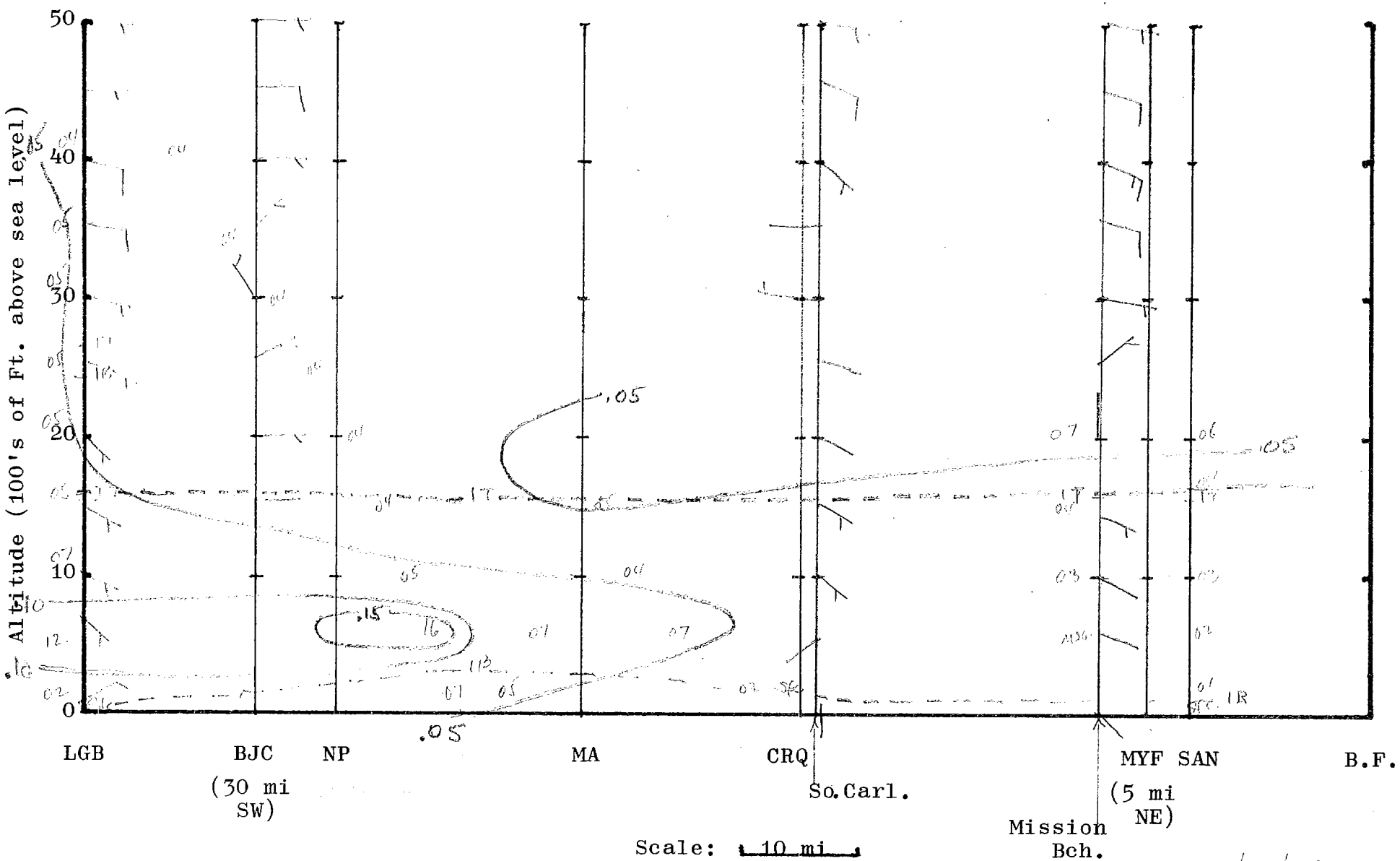


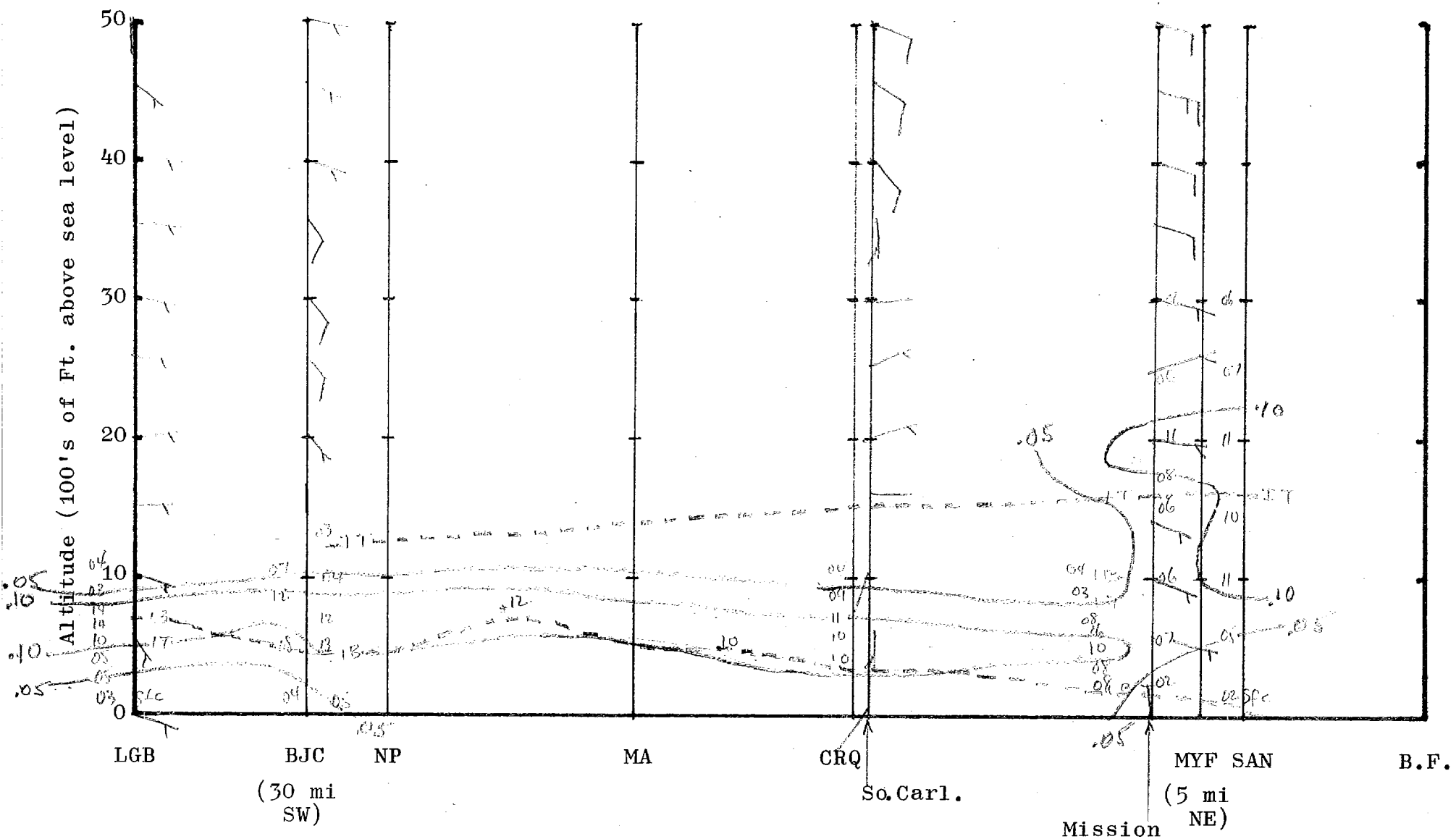

Scale: 10 mi

Cross-section: Long Beach to San Diego

Date 10/9/76

Time (PDT) 2300


Altitude (100's of Ft. above sea level)
50
40
30
20
10
0
LGB
BJC
(30 mi SW)
NP
MA
CRQ
So.Carl.
MYF
SAN
(5 mi NE)
B.F.
Mission Bch.
Scale: 10 mi
Cross-section: Long Beach to San Diego
Date 10/10/76
Time (PDT)

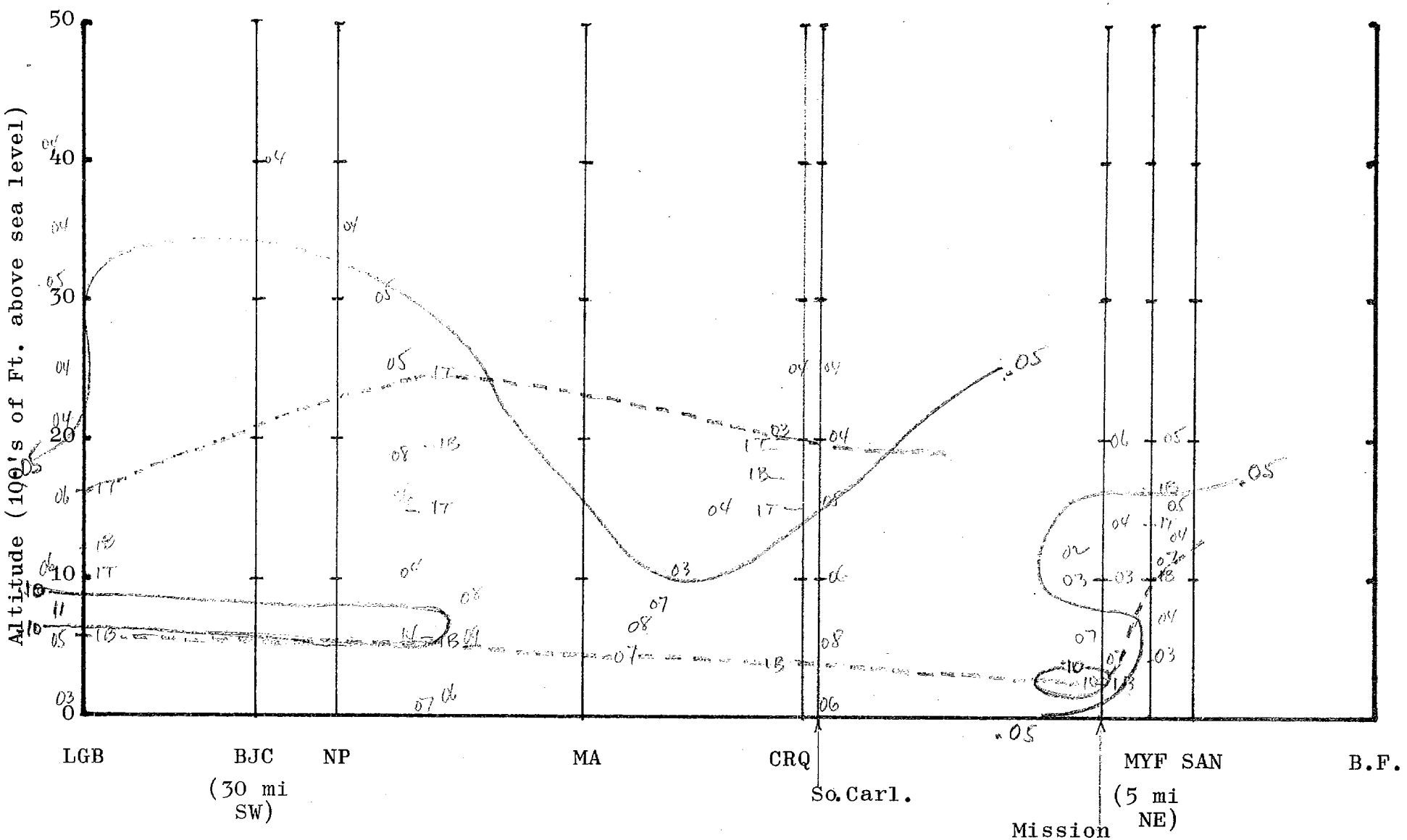



Scale: 10 mi

Cross-section: Long Beach to San Diego

Date 10/10/76

Time (PDT) 0800

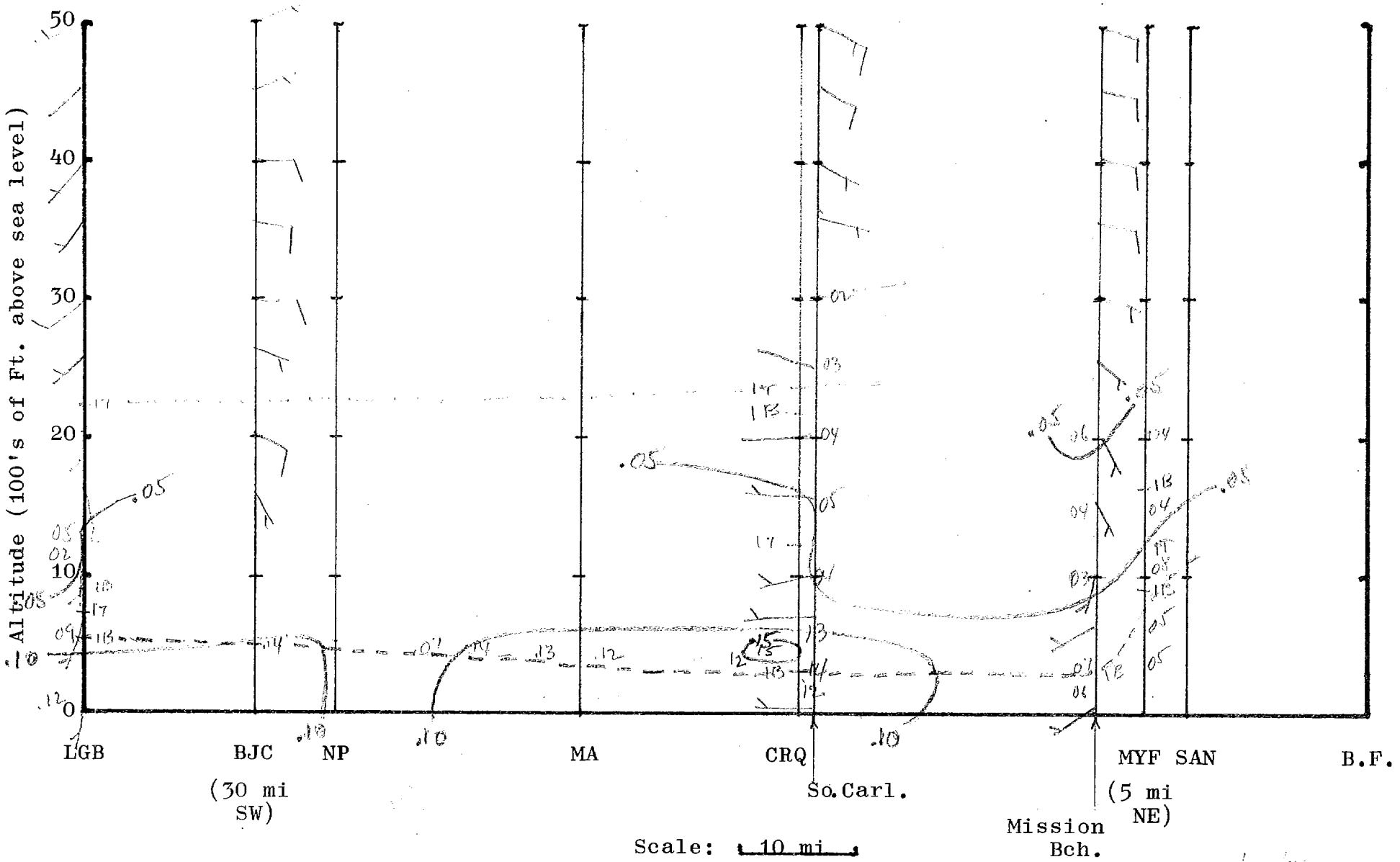



Scale: 10 mi

Cross-section: Long Beach to San Diego

Date 10/10/[illegible]

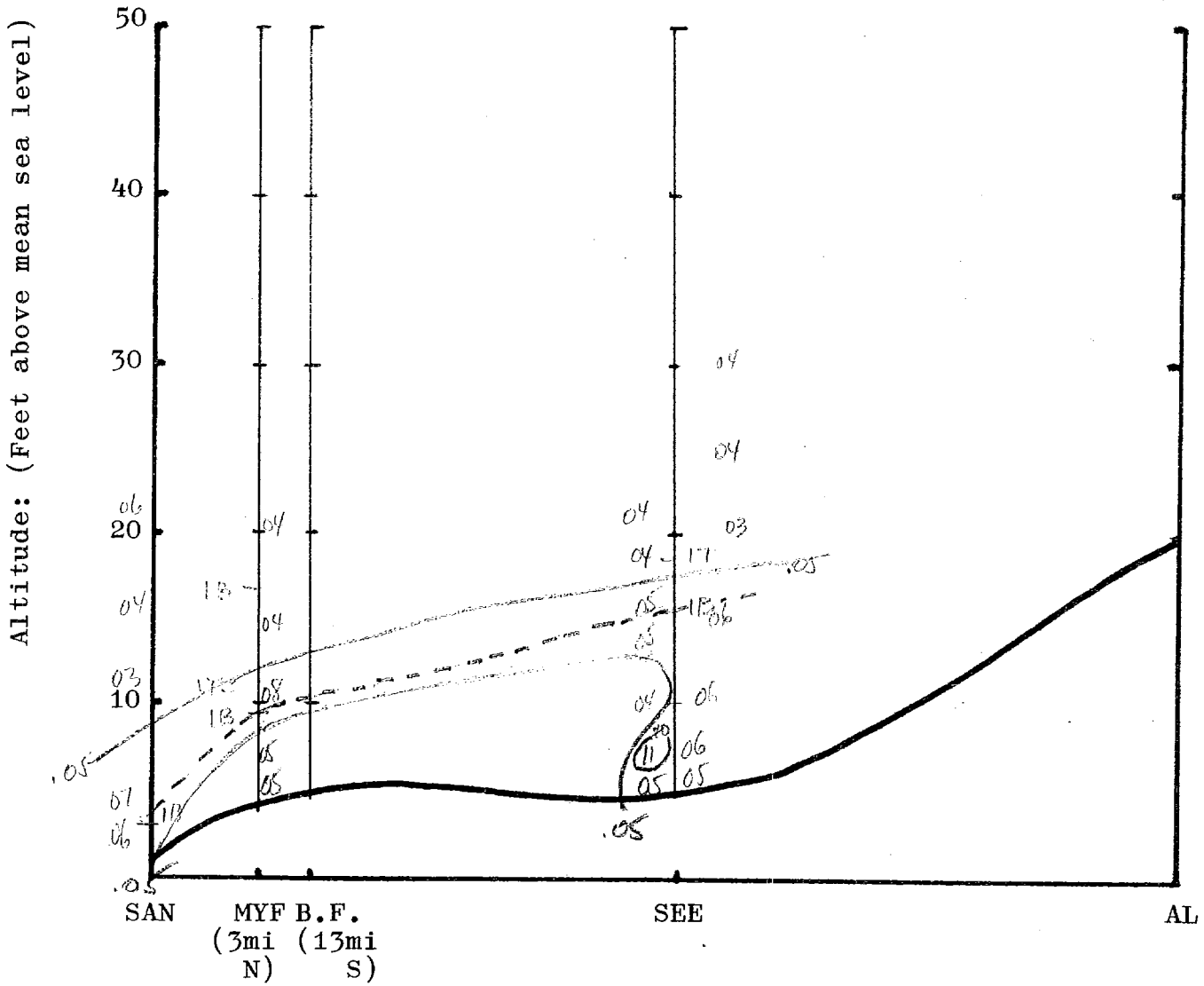
Time (PDT) 1100




Cross-section: Long Beach to San Diego

Date 10/15/76

Time (PDT) 12:00

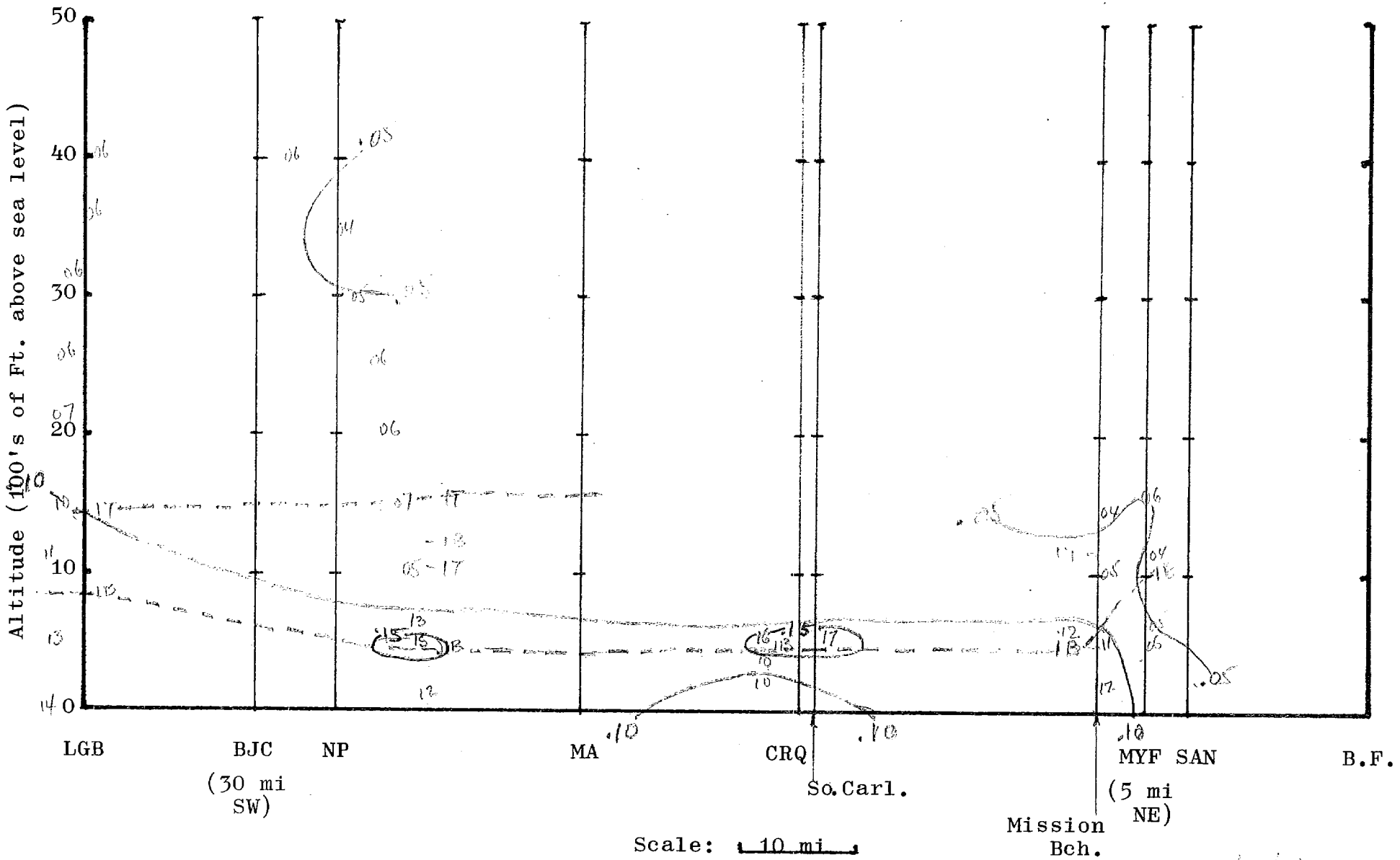



Scale: 10 mi

Cross-section: San Diego to Alpine

Date 10/10/76

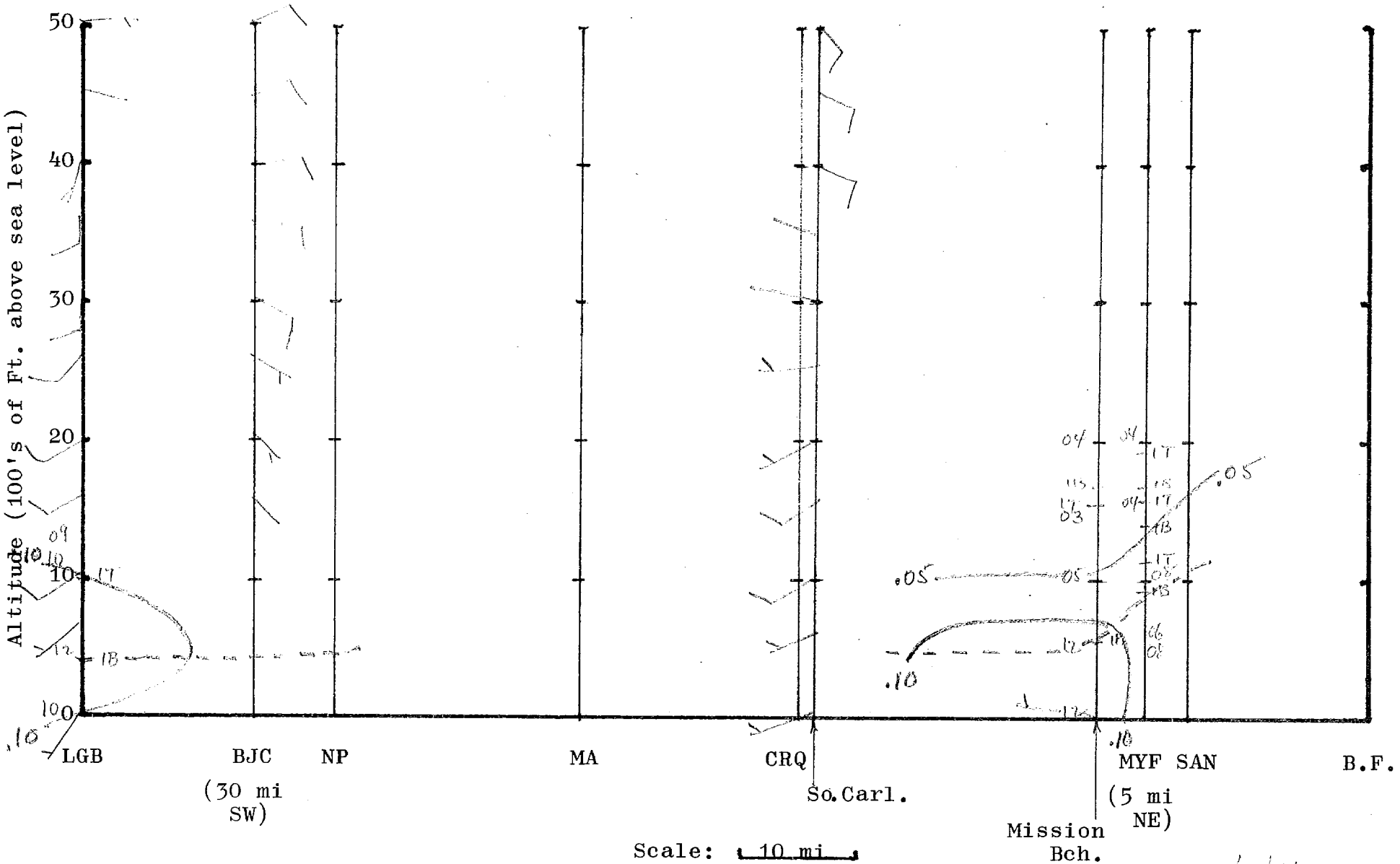
Time(PDT) 1200




Cross-section: Long Beach to San Diego

Date 10/15/76

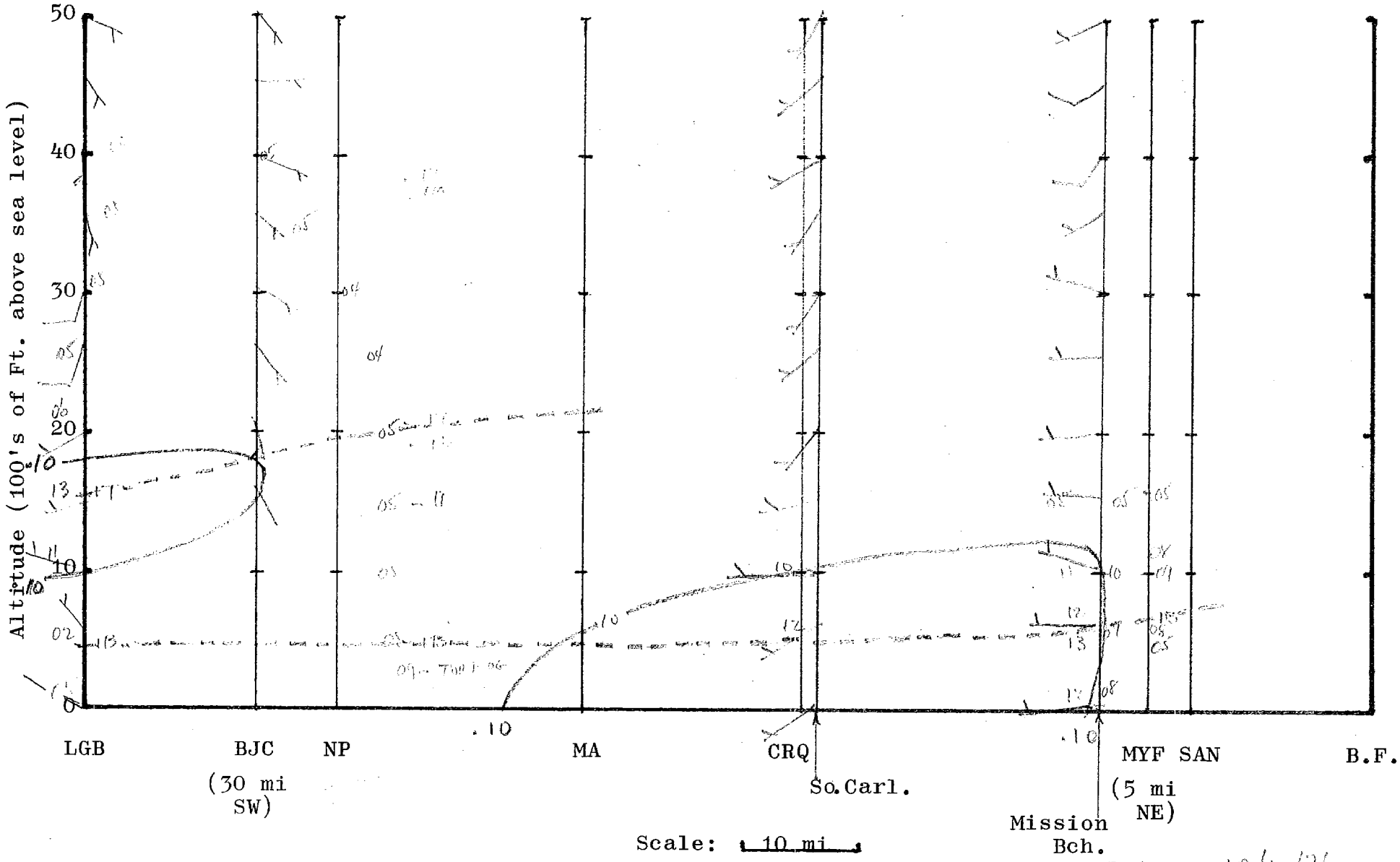
Time (PDT) 1400




Cross-section: Long Beach to San Diego

Date 10/10/66

Time (PDT) 1500

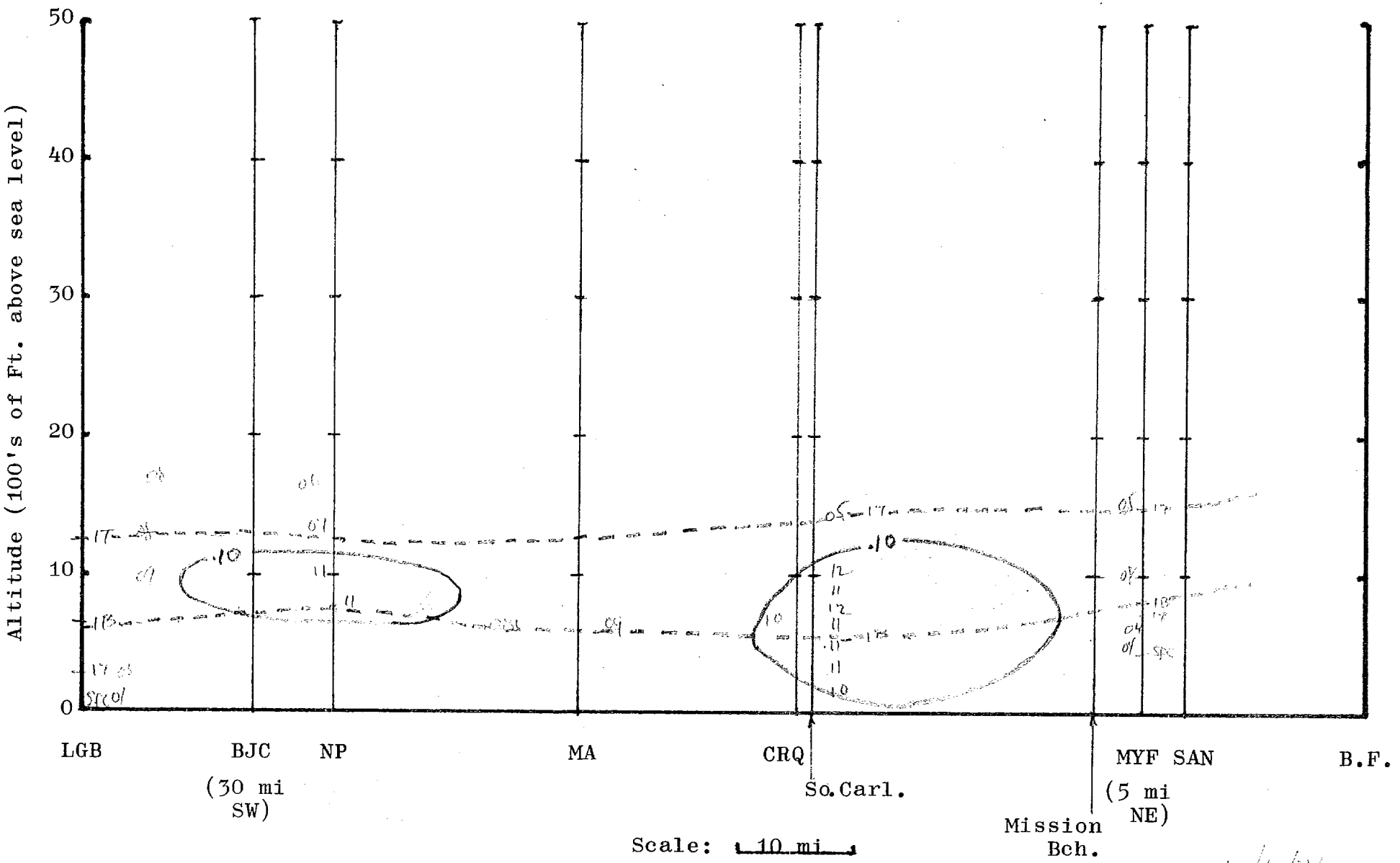



Scale: 10 mi

Cross-section: Long Beach to San Diego

Date 10/10/76

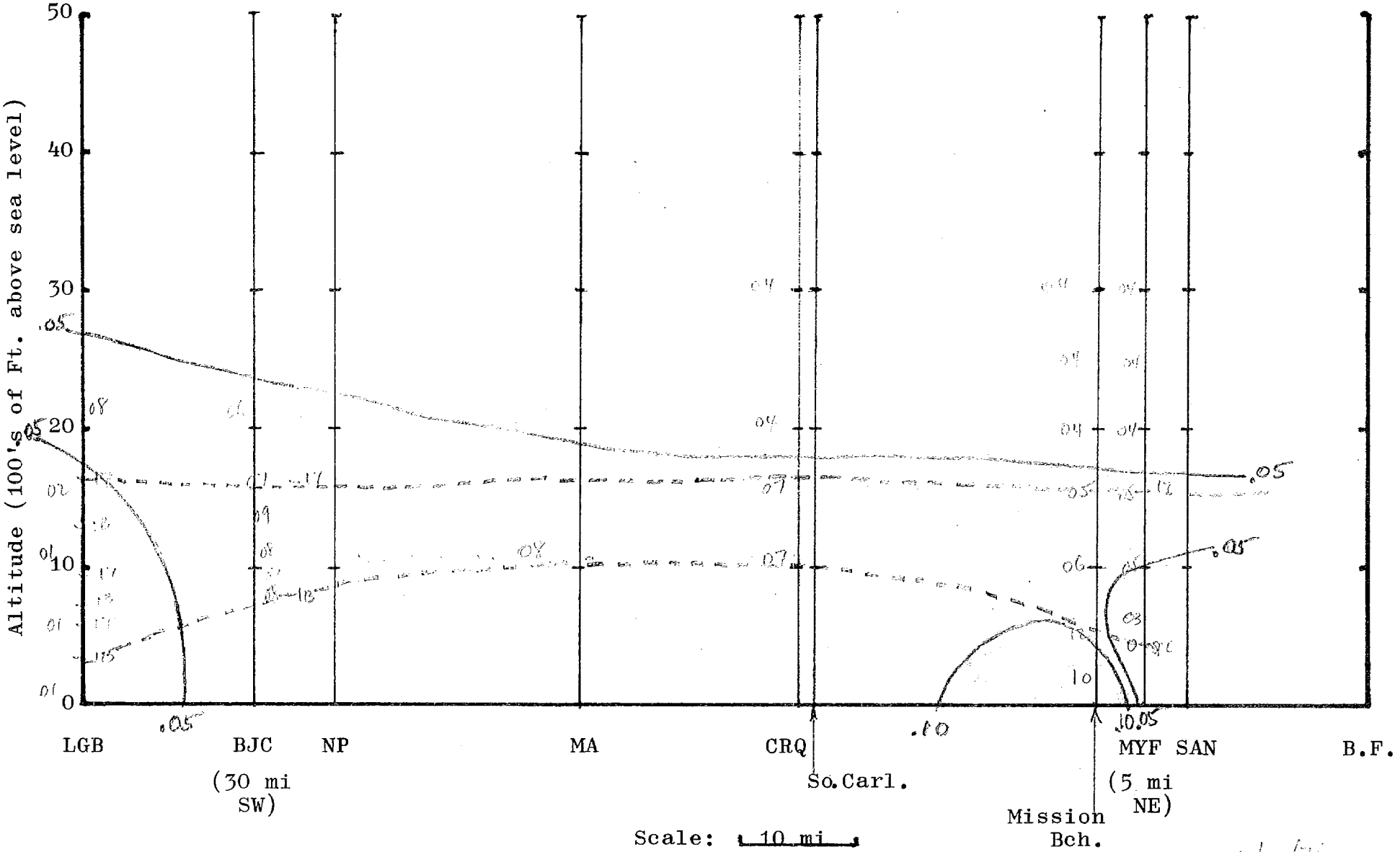
Time (PDT) 1800




Cross-section: Long Beach to San Diego

Date 10/10/72

Time (PDT) 1900

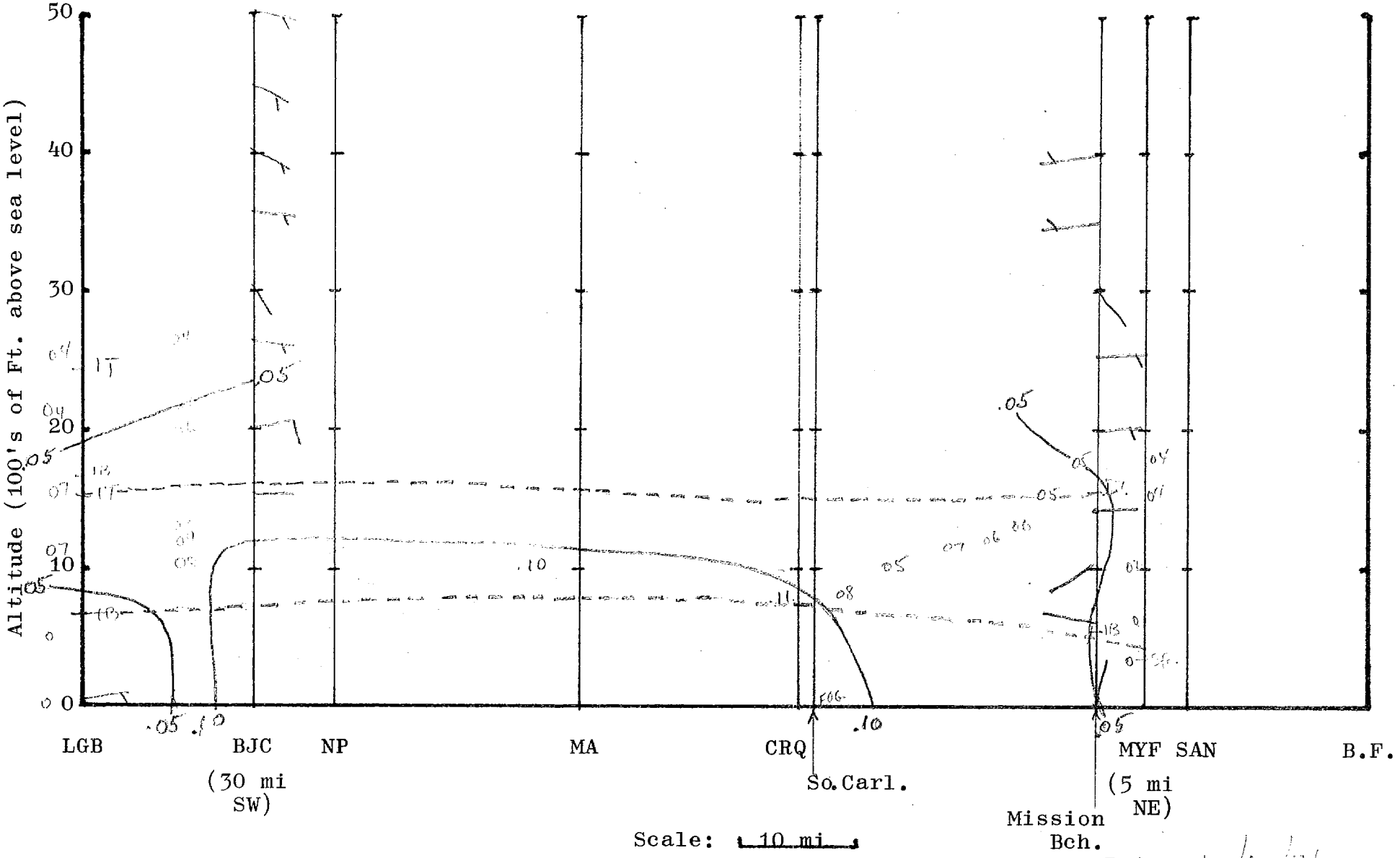



Scale: 10 mi

Cross-section: Long Beach to San Diego

Date 10/10/72

Time (PDT) 2200


Altitude (100's of Ft. above sea level)
50
40
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LGB
BJC
(30 mi SW)
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CRQ
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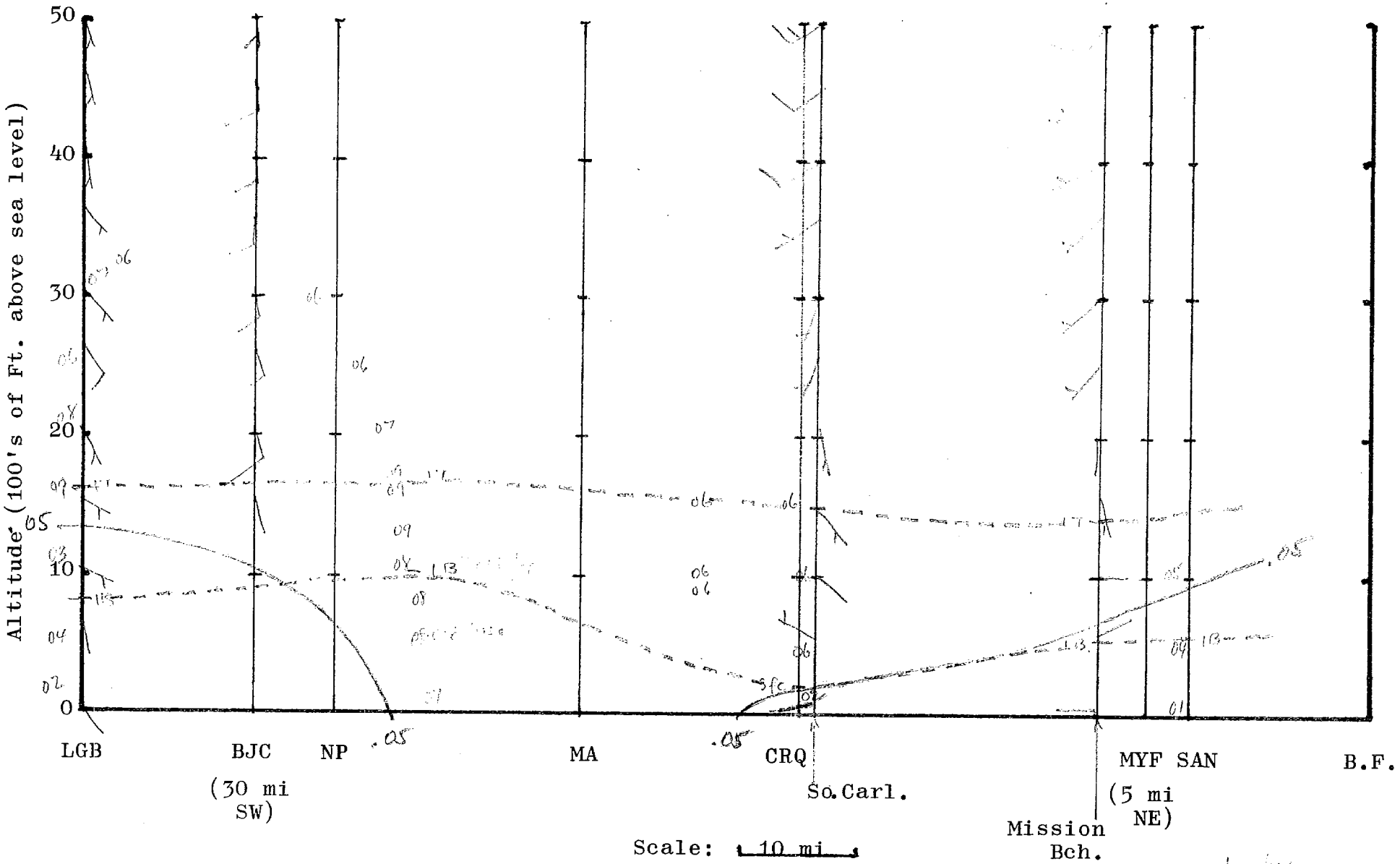
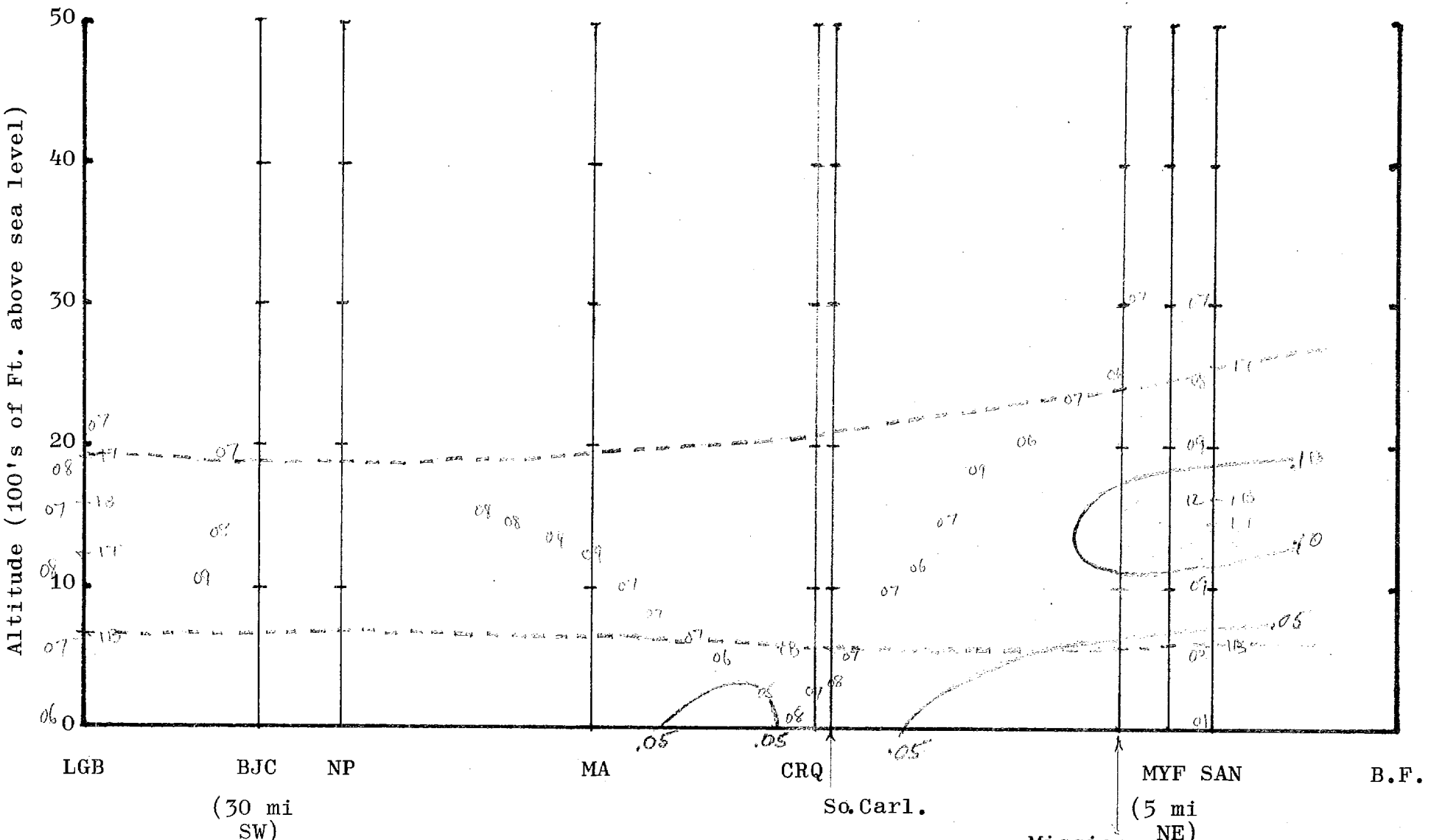
SAN
(5 mi NE)
Mission Bch.
B.F.
Scale: 10 mi
Date 10/10/76
Time (PDT)
Cross-section: Long Beach to San Diego




Cross-section: Long Beach to San Diego

Date 10/11/76

Time (PDT) 0200

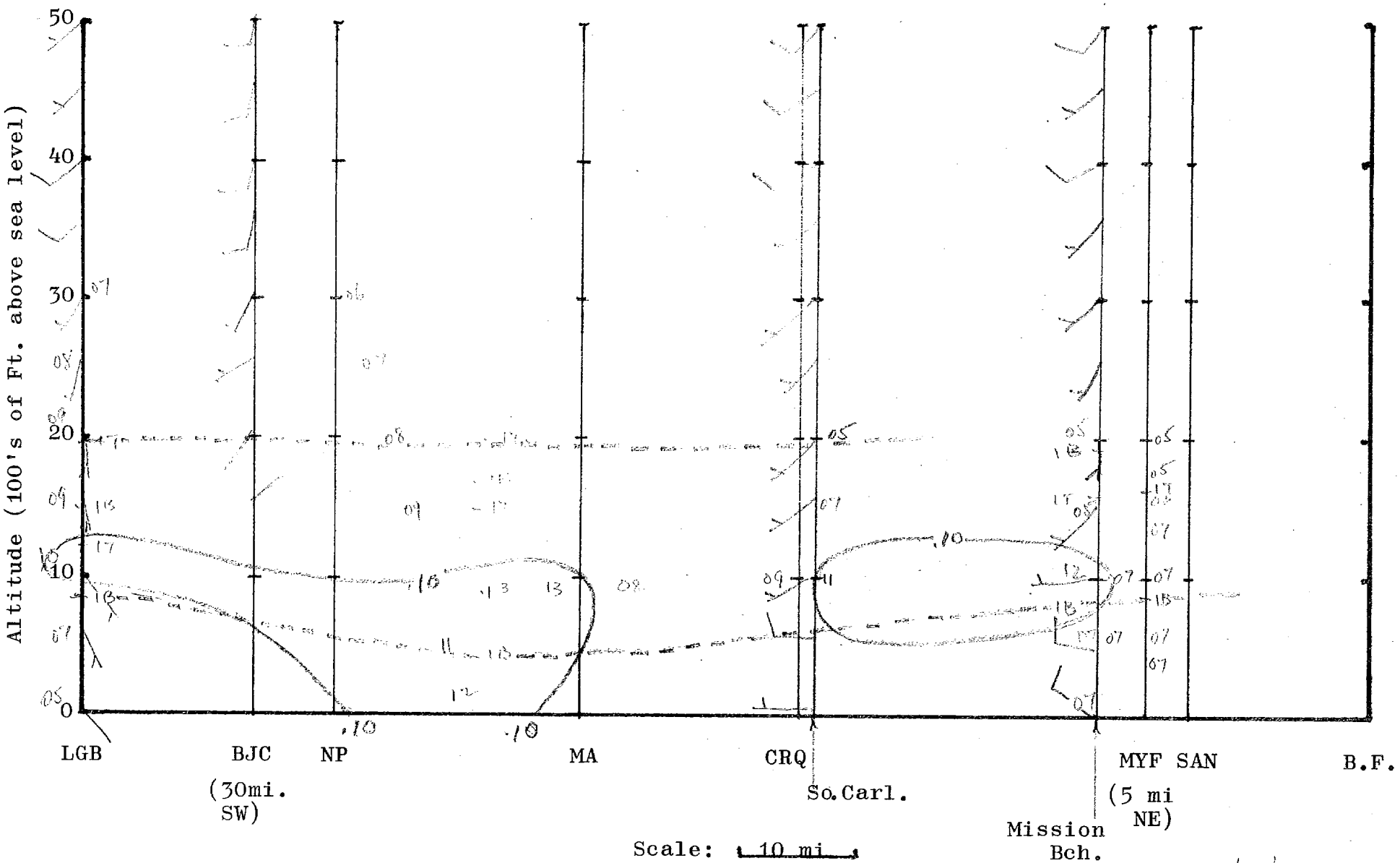



Scale: 10 mi

Cross-section: Long Beach to San Diego

Date 10/11/76

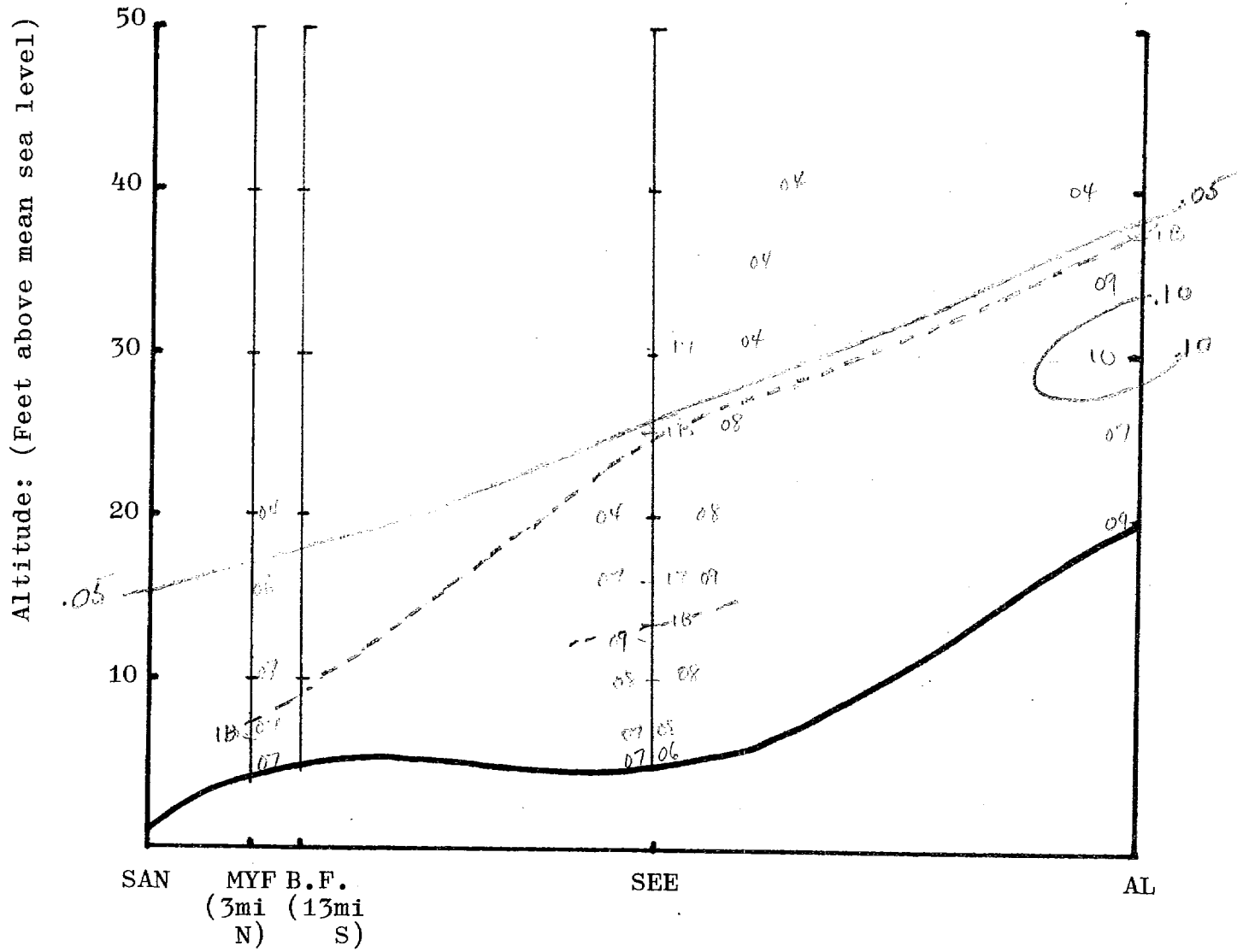
Time (PDT) 1000




Cross-section: Long Beach to San Diego

Date 10/11/76

Time (PDT) 1200

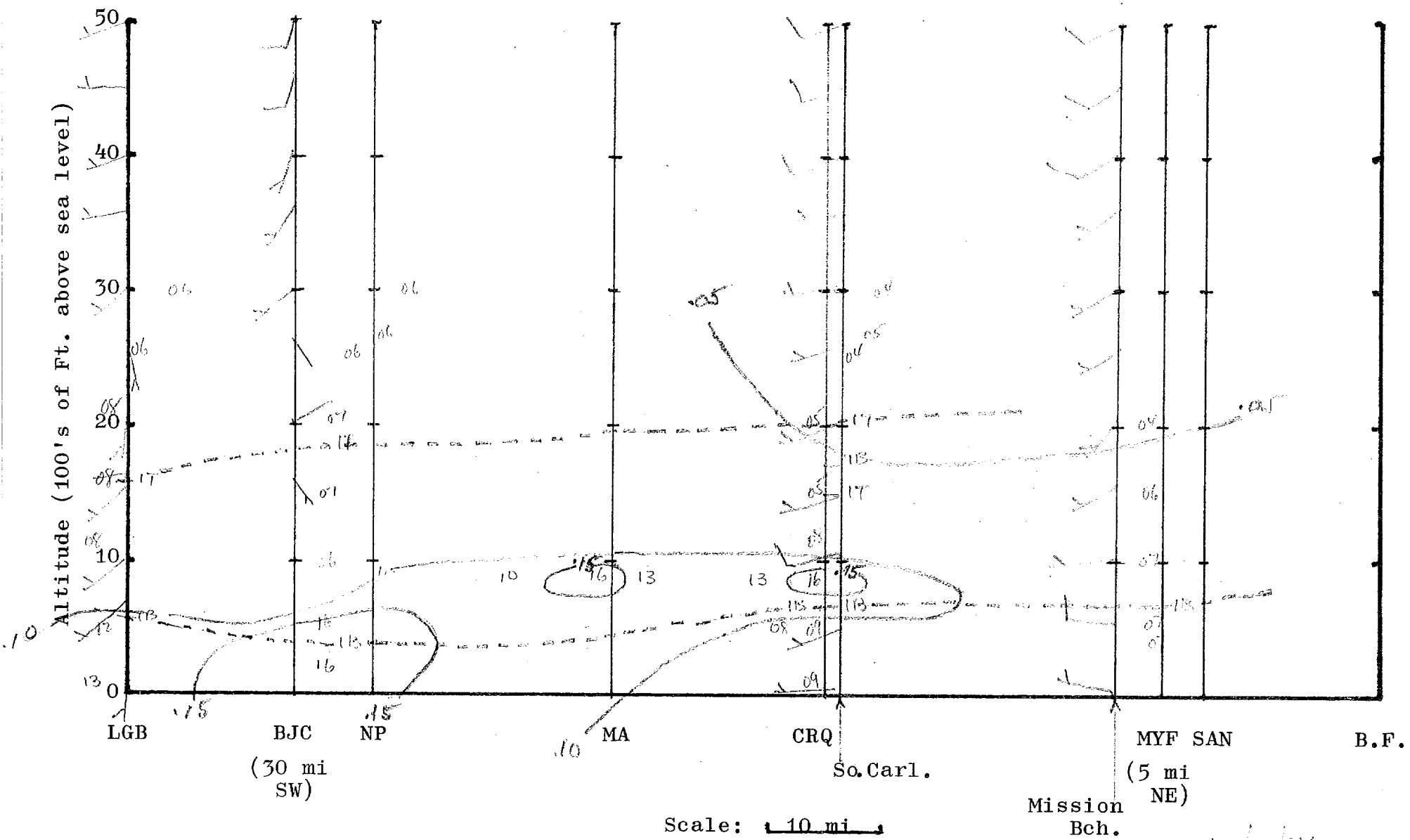



Scale: 10 mi

Cross-section: San Diego to Alpine

Date 10/11/74

Time(PDT) 1300

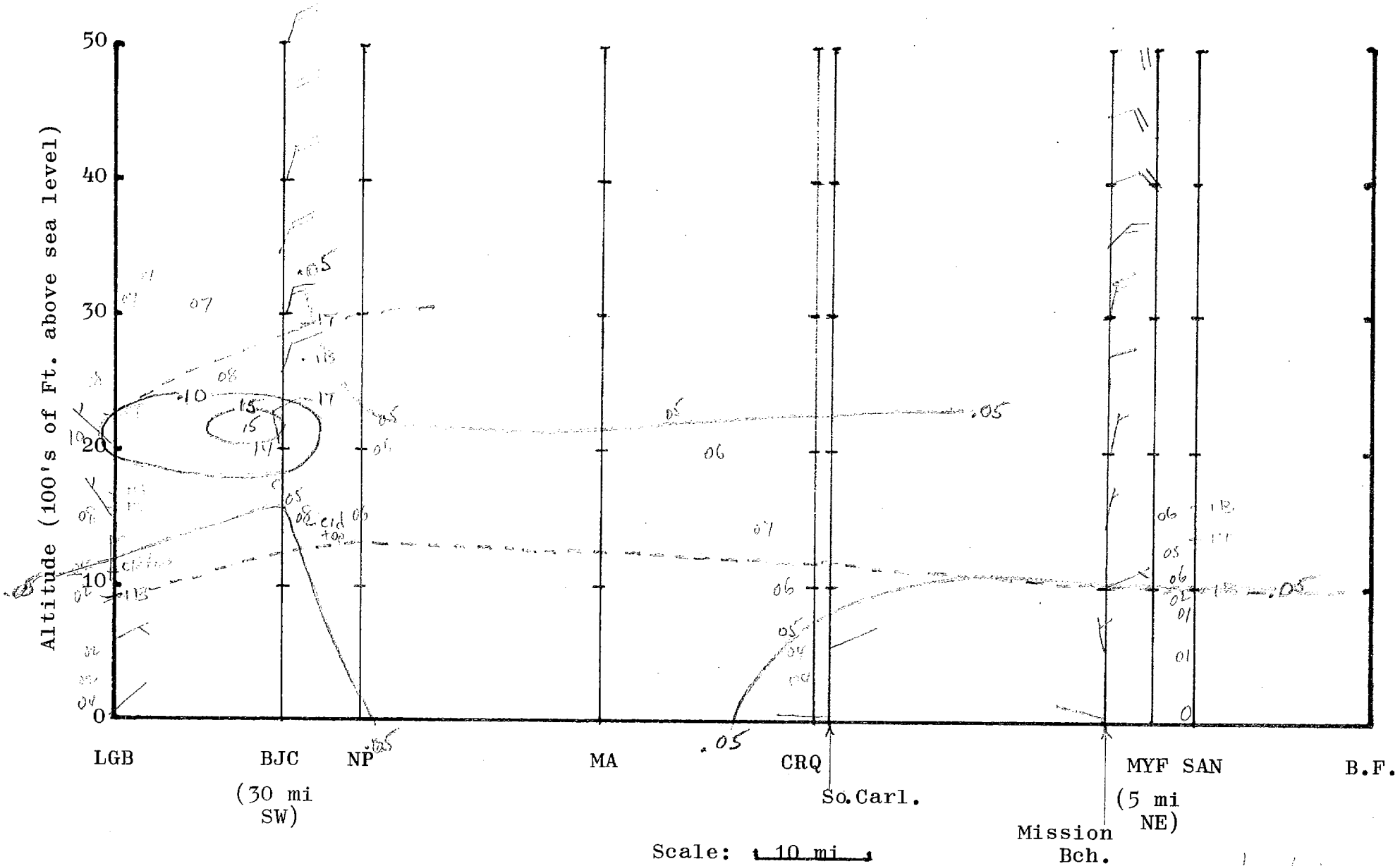


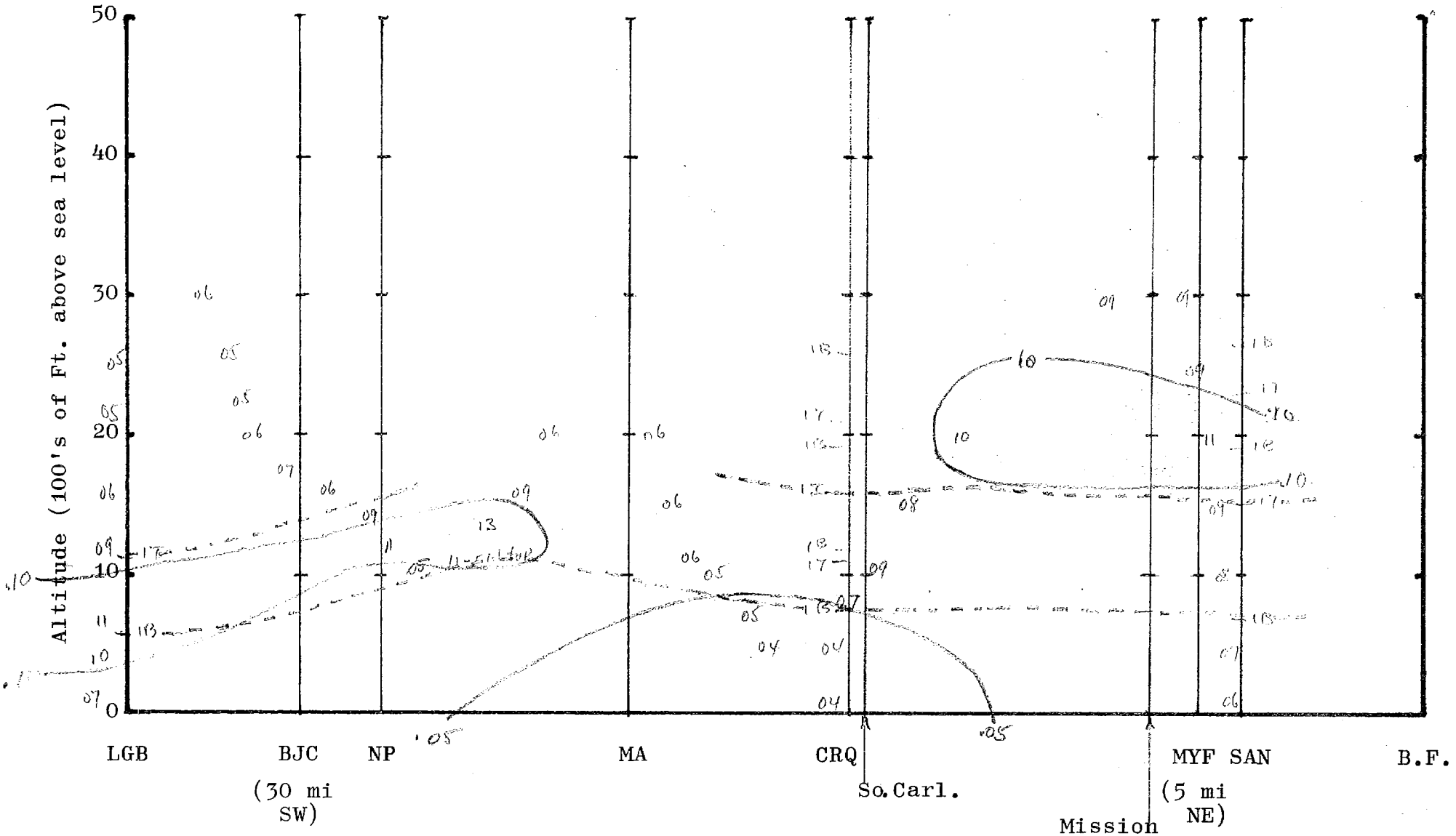

Scale: 10 mi

Cross-section: Long Beach to San Diego

Date 10/11/76

Time (PDT) 1400


Altitude (100's of Ft. above sea level)
50
40
30
20
10
0
LGB
BJC
(30 mi SW)
NP
MA
CRQ
So. Carl.
MYF
SAN
(5 mi NE)
Mission Bch.
B.F.
Scale: 10 mi
Cross-section: Long Beach to San Diego
Date 10/12/64
Time (PDT) 8:00

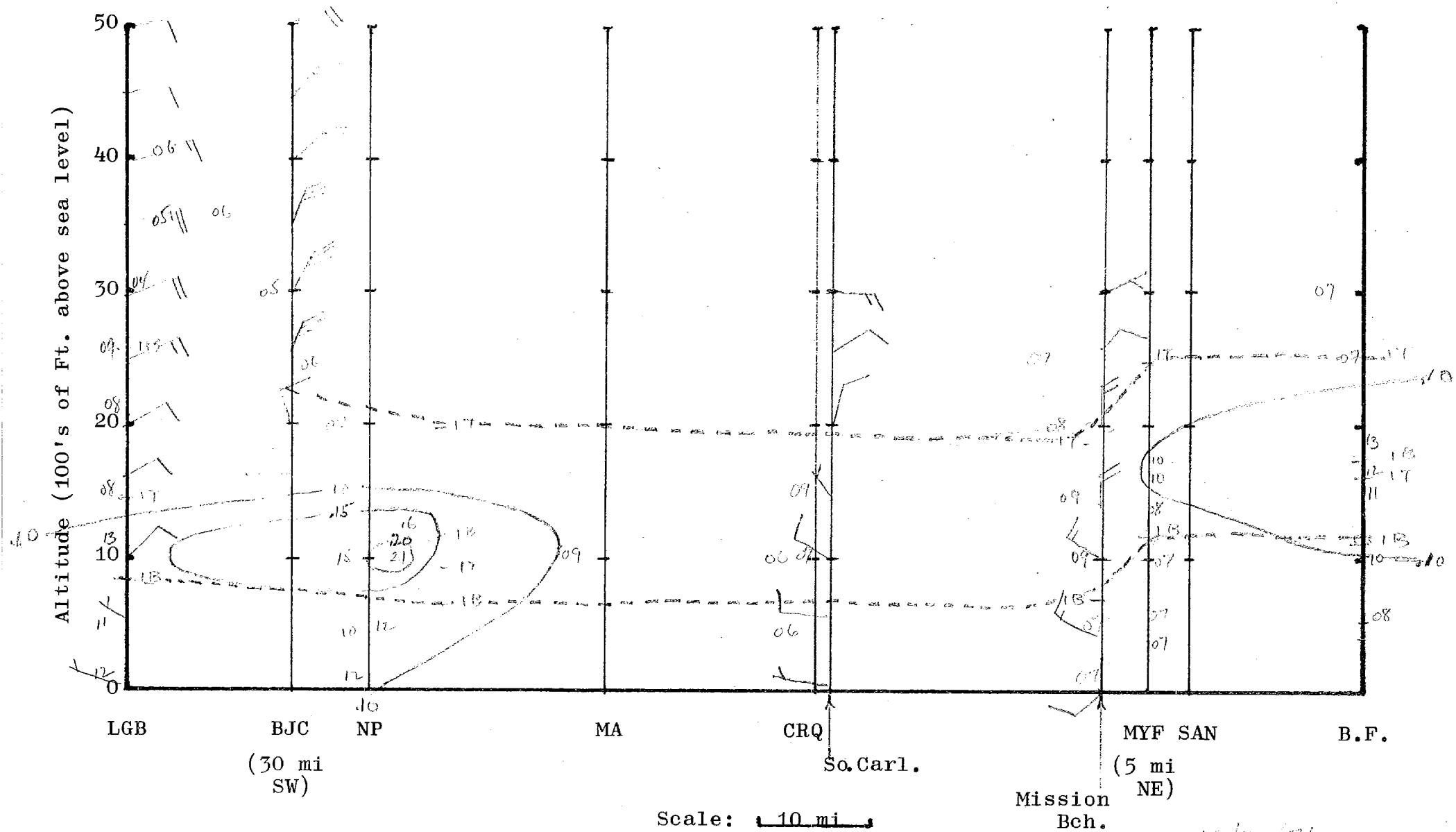



Scale: 10 mi

Cross-section: Long Beach to San Diego

Date 10/12/76

Time (PDT) 1600

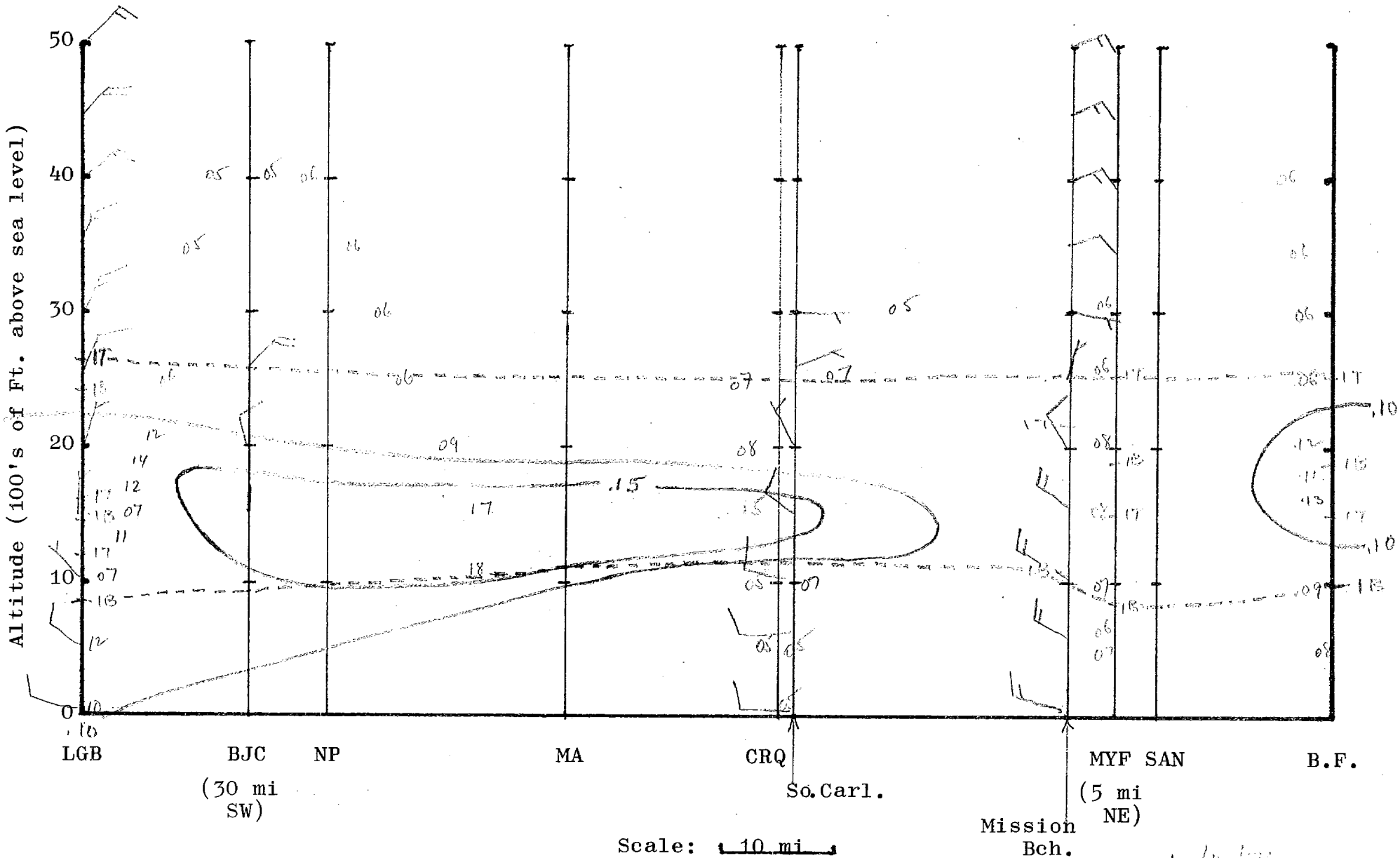



Scale: 10 mi

Cross-section: Long Beach to San Diego

Date 10/12/76

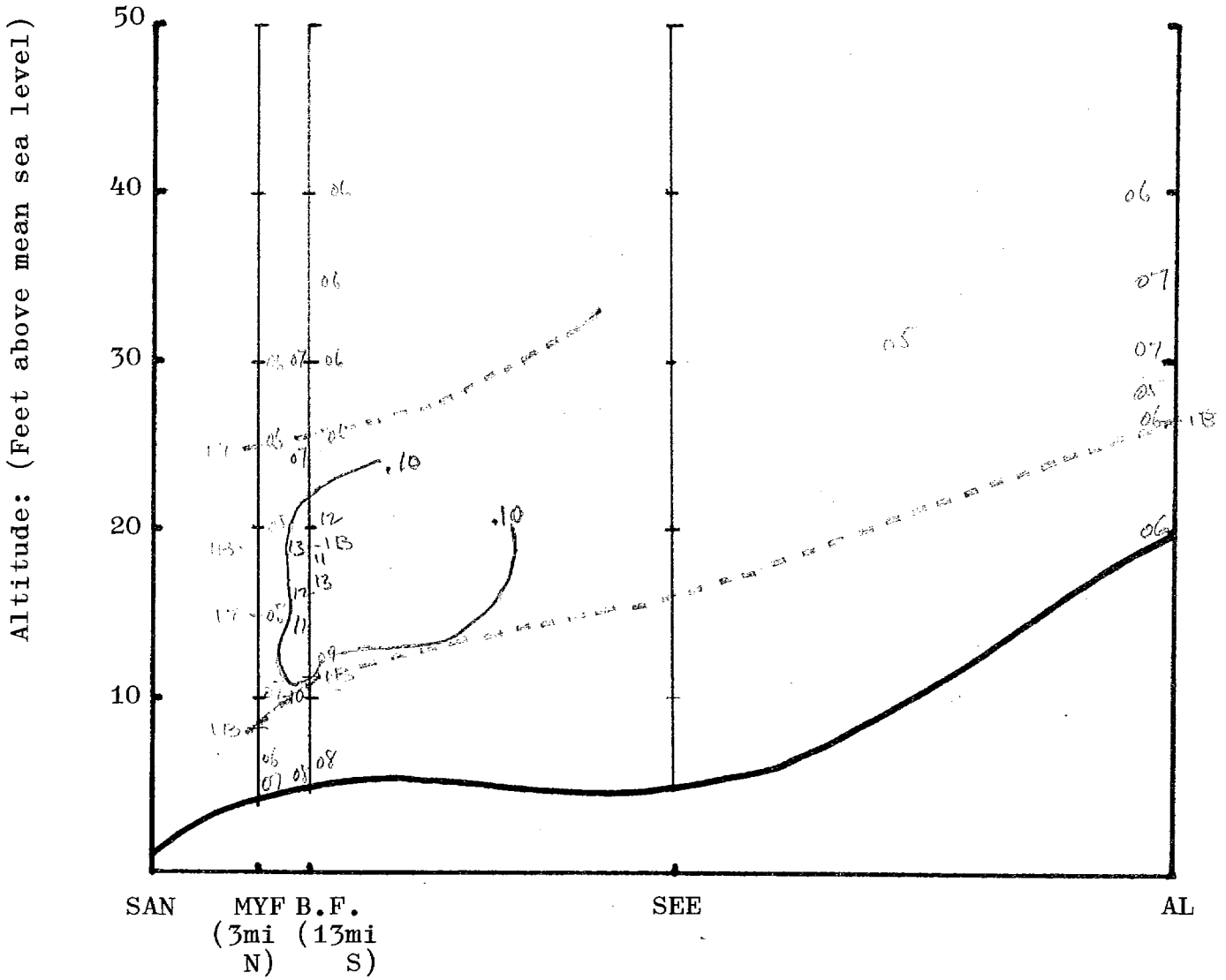
Time (PDT) 1300




Cross-section: Long Beach to San Diego

Date 10/11/76

Time (PDT) 1400

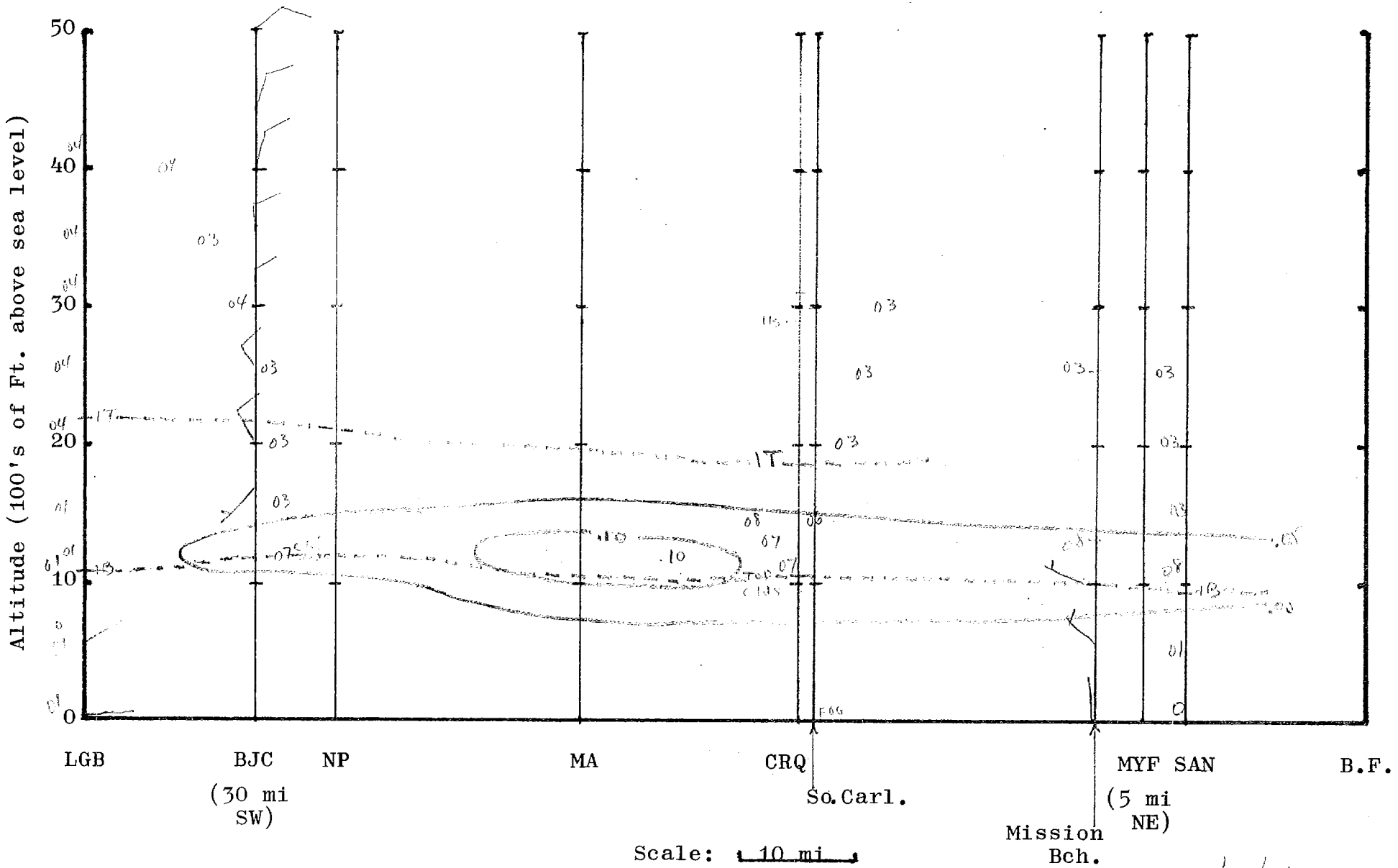



Scale: 10 mi

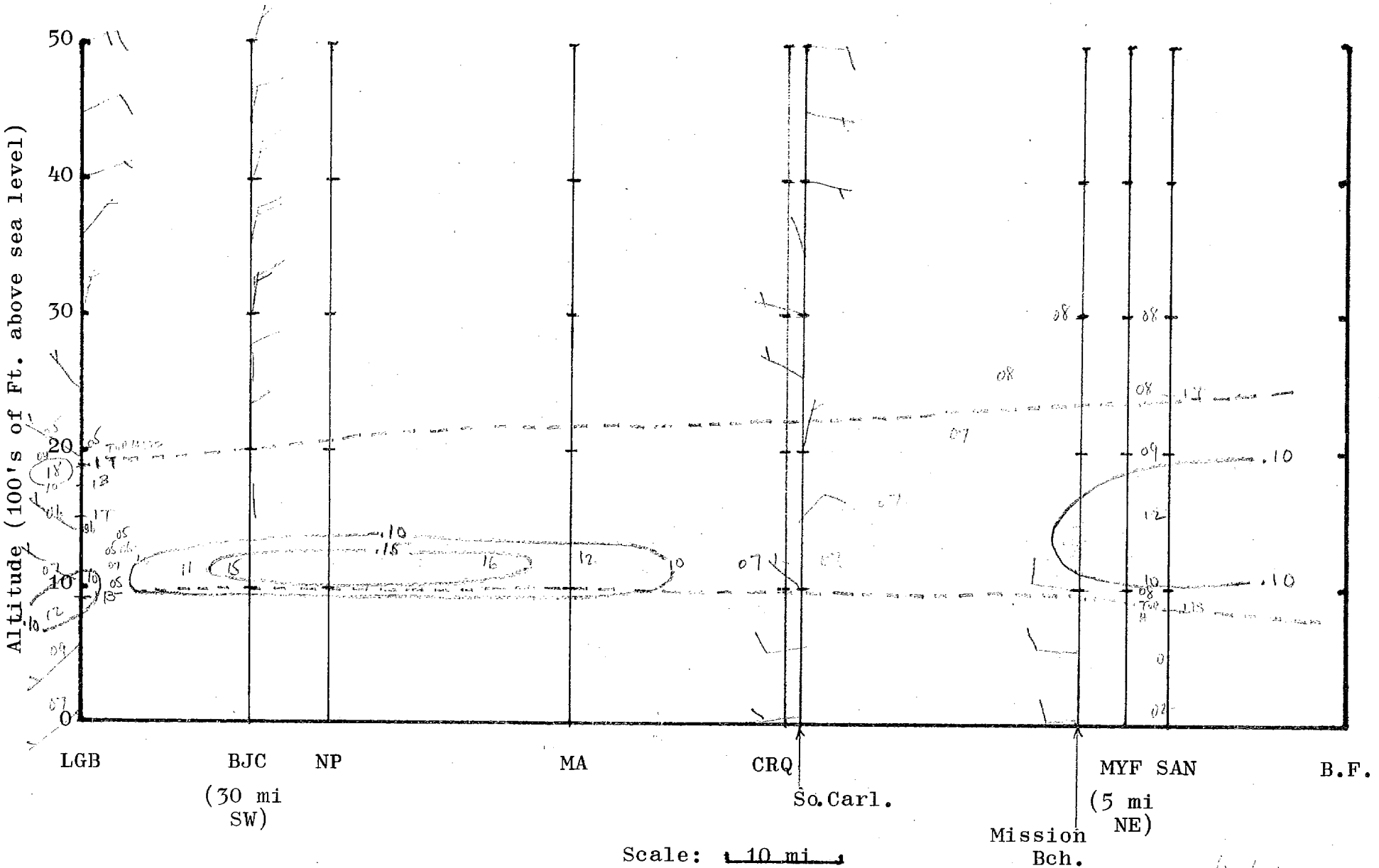
Cross-section: San Diego to Alpine

Date 10/12/72

Time(PDT) 1400



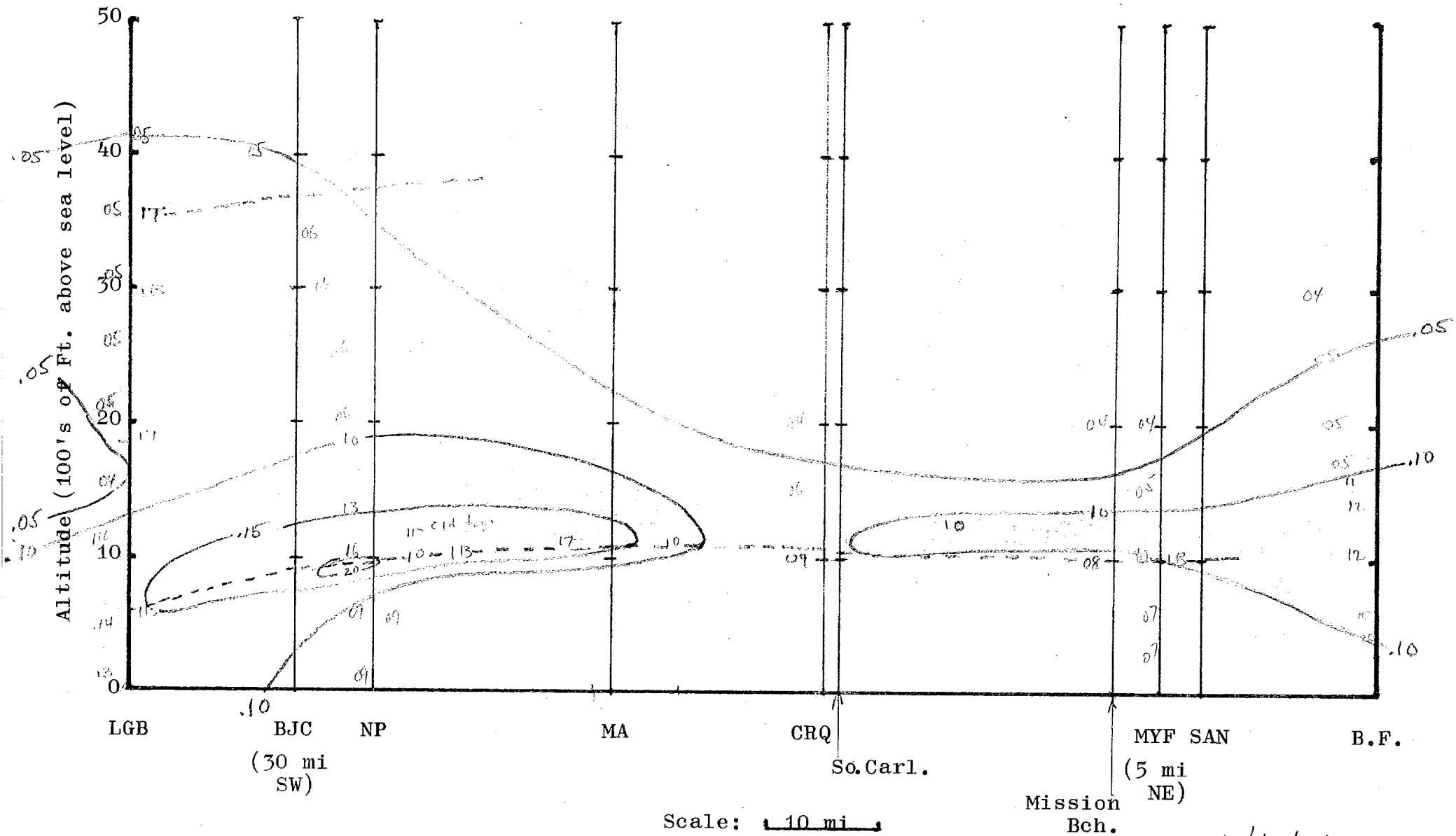

Cross-section: Long Beach to San Diego




Cross-section: Long Beach to San Diego

Date 10/15/68

Time (PDT) 1100

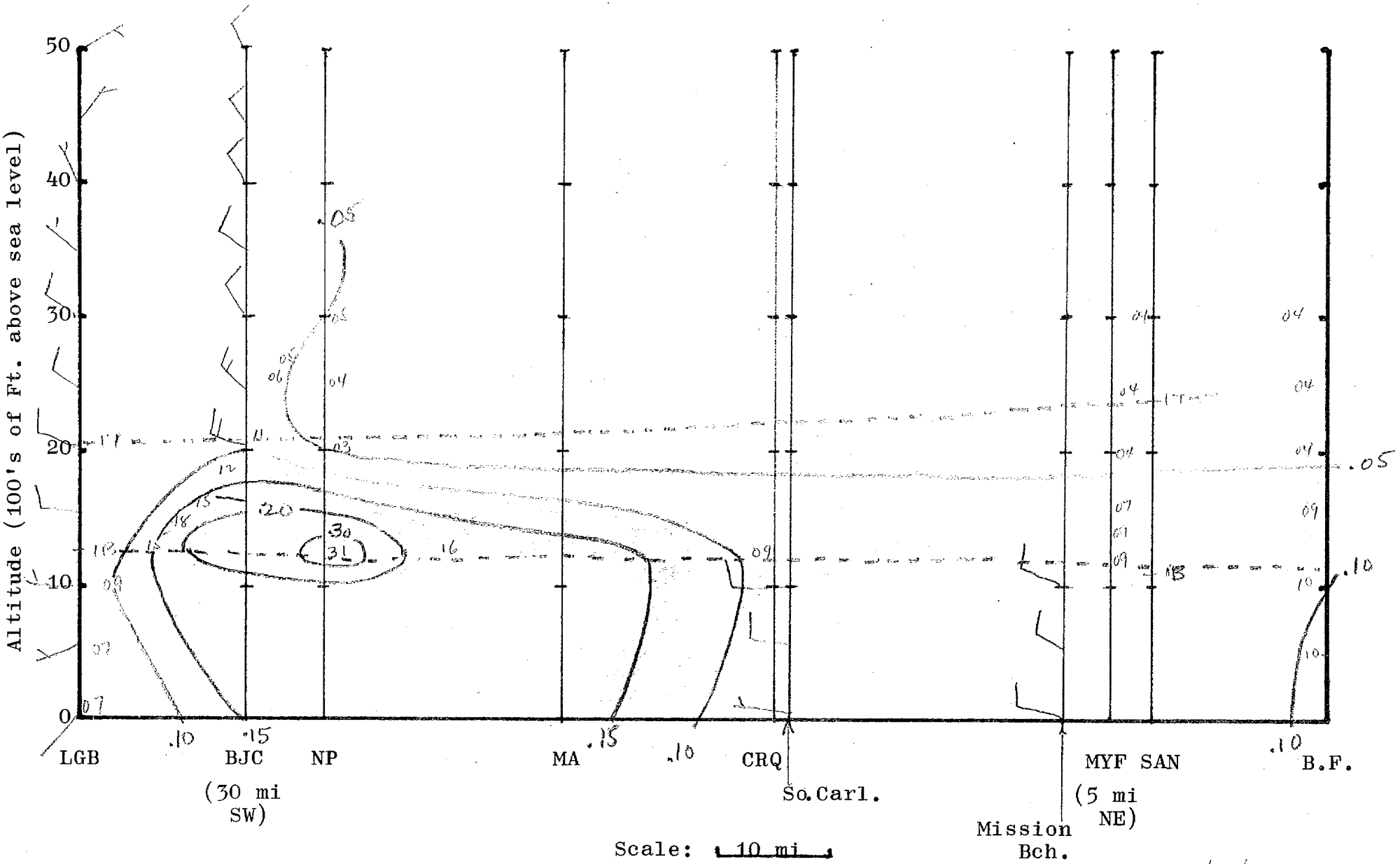



Scale: 10 mi

Cross-section: Long Beach to San Diego

Date 10/13/76

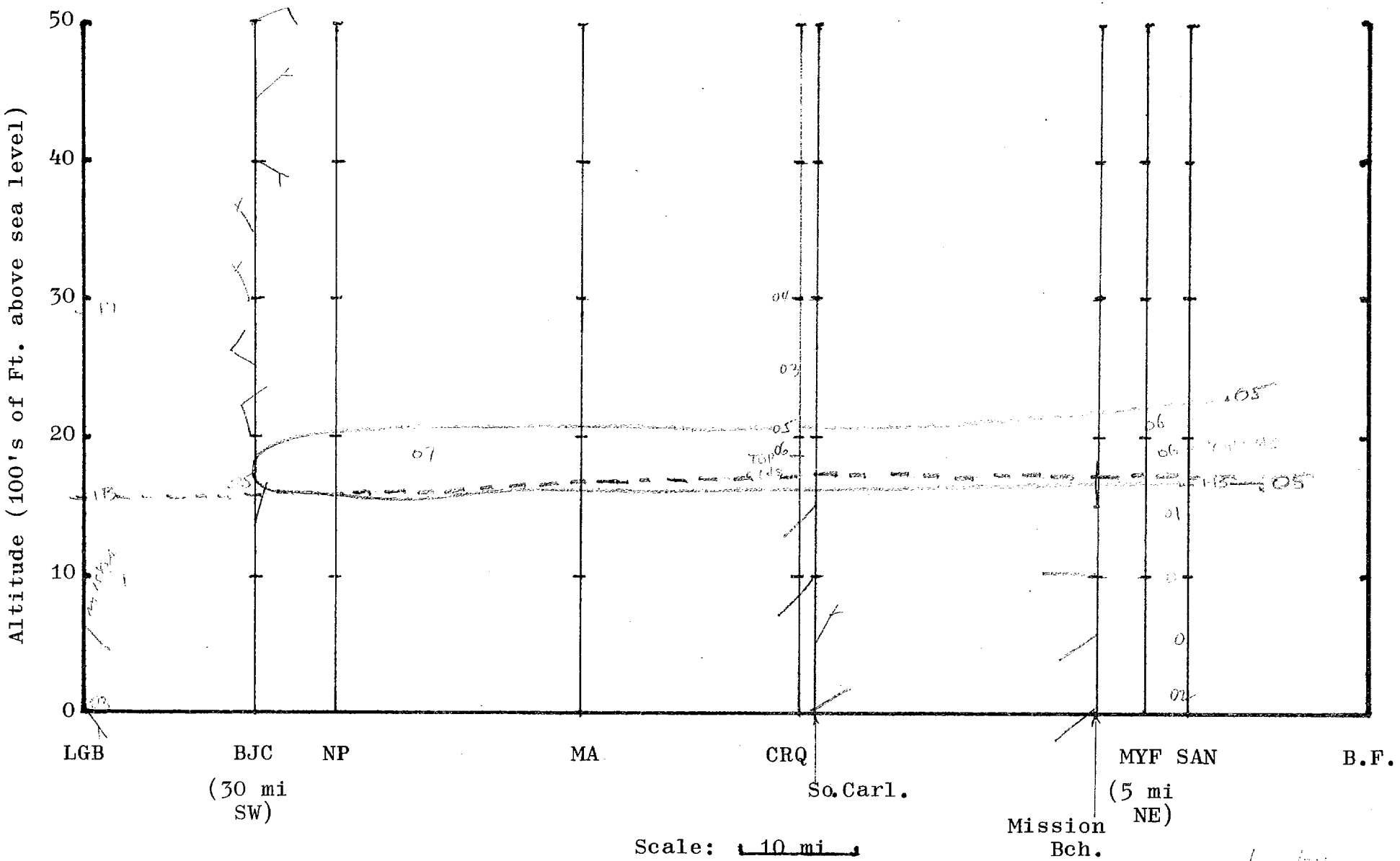
Time (PDT) 1400




Cross-section: Long Beach to San Diego

Date 10/13/76

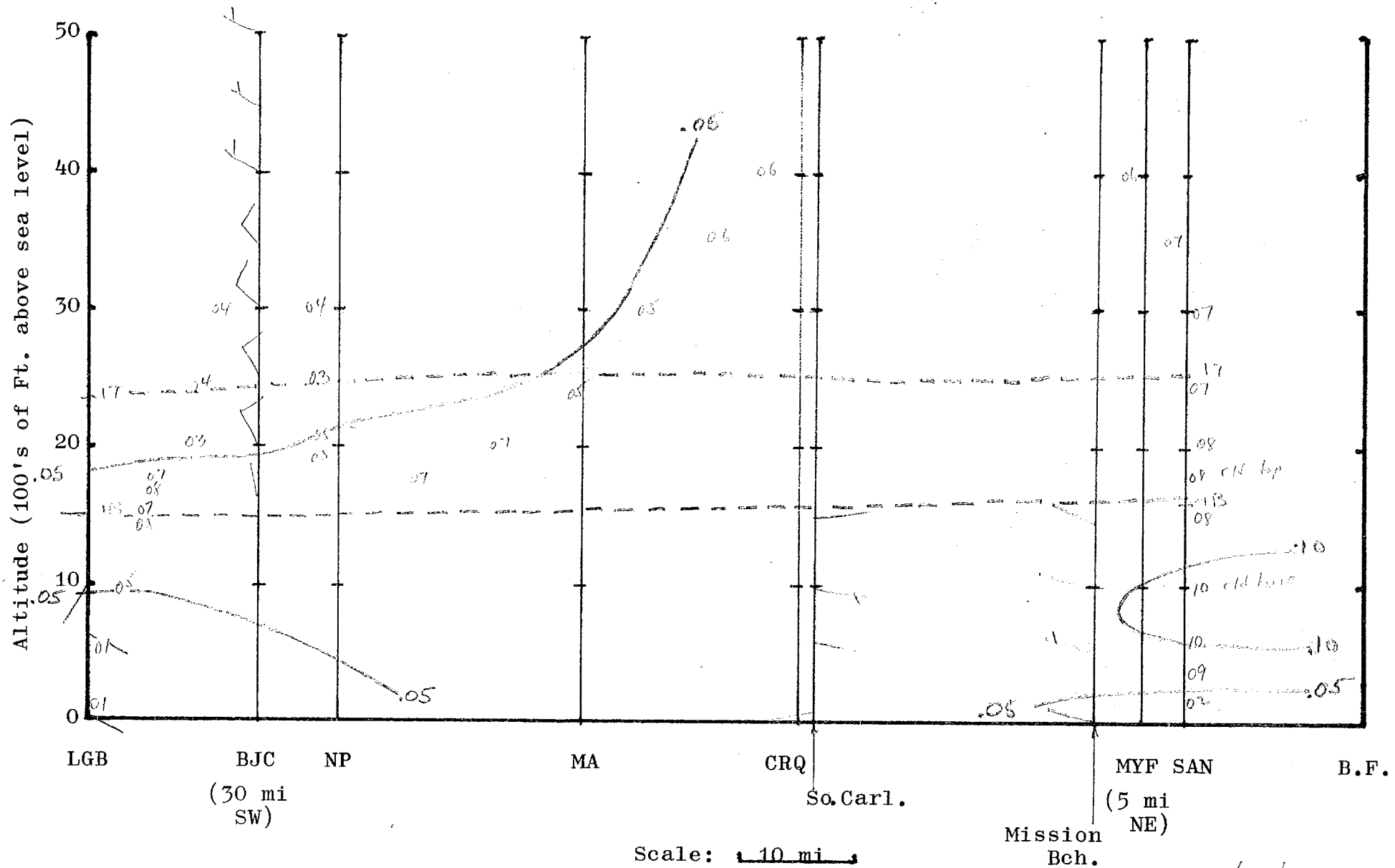
Time (PDT) 1500

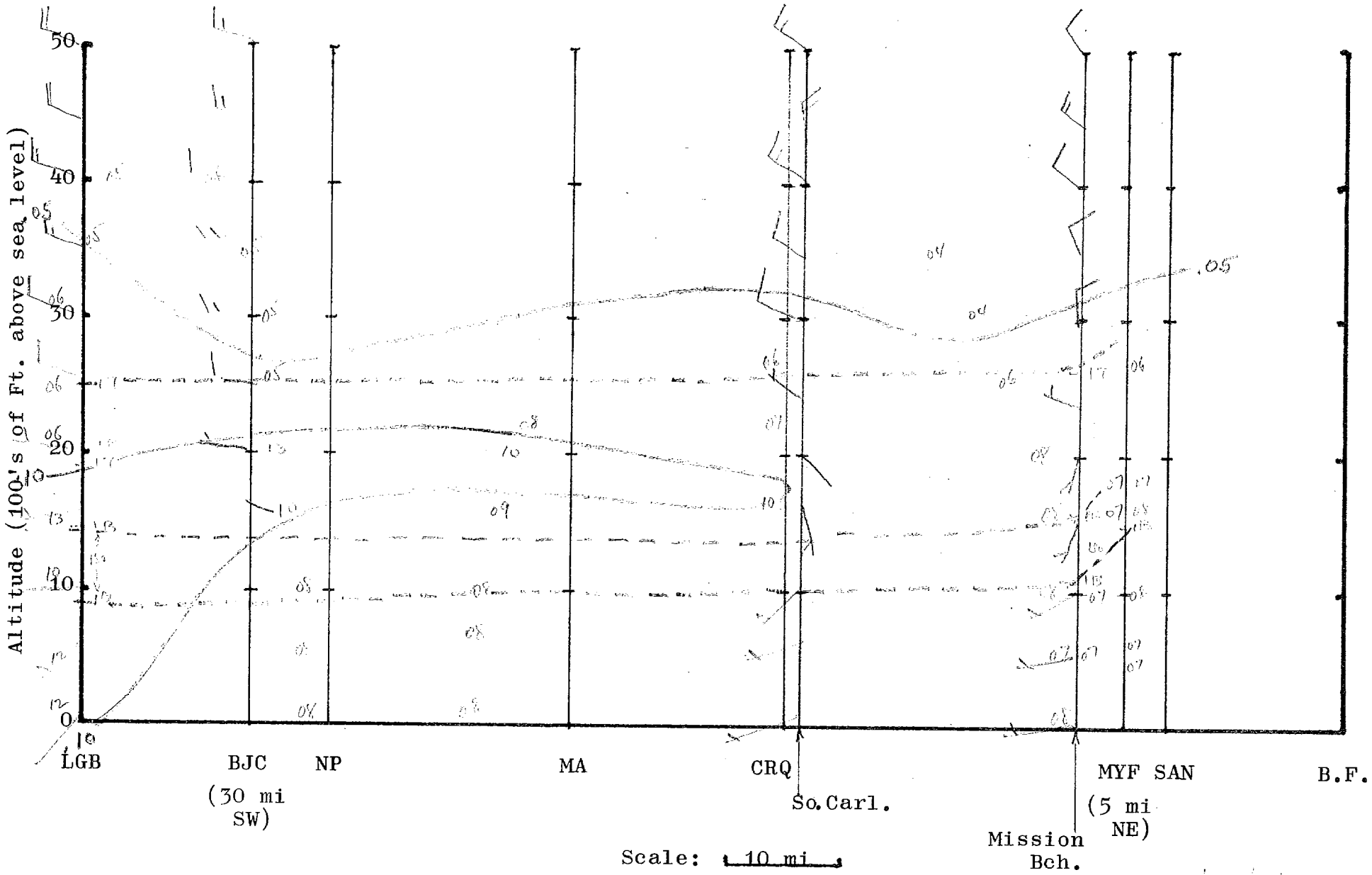



Cross-section: Long Beach to San Diego

Date 10/14/76

Time (PDT) 0700


Altitude (100's of Ft. above sea level)
50
40
30
20
10
0
LGB
BJC
(30 mi SW)
NP
MA
CRQ
So. Carl.
MYF
SAN
(5 mi NE)
Mission Bch.
B.F.
Scale: 10 mi
Date 10/14/71
Time (PDT) 0800
Cross-section: Long Beach to San Diego

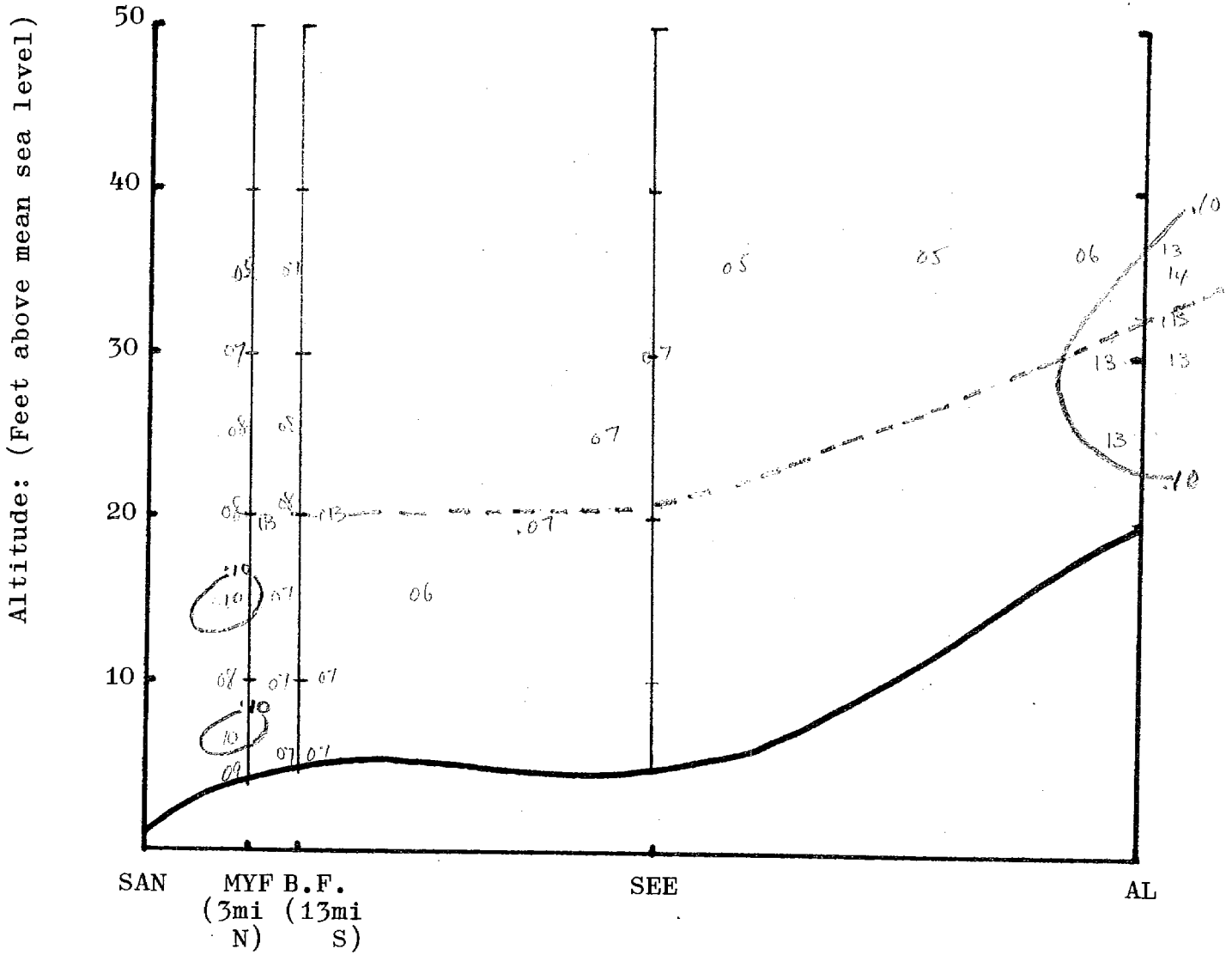



Scale: 10 mi

Cross-section: Long Beach to San Diego

Date 10/14/76

Time (PDT) 1300

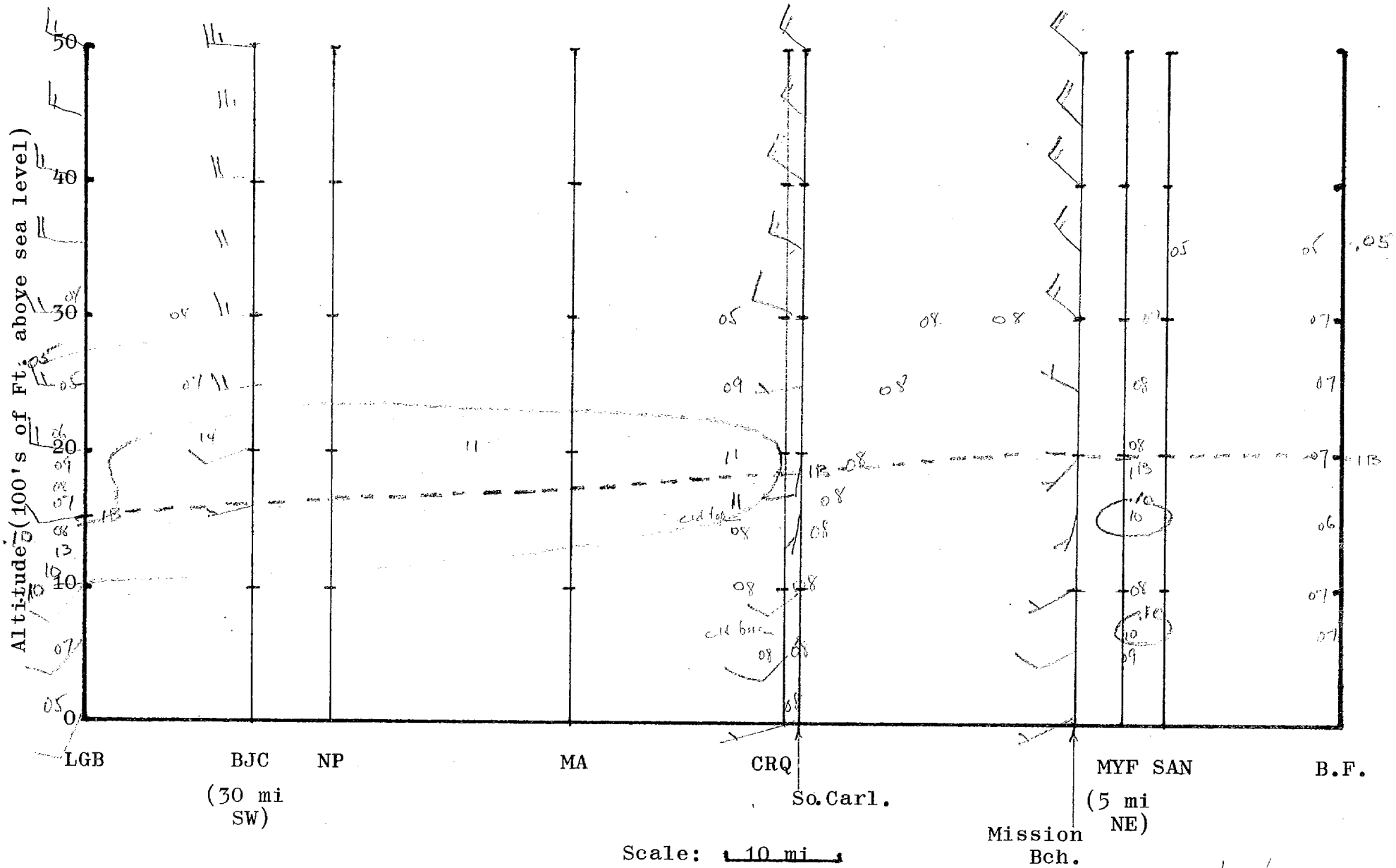



Scale: 10 mi

Cross-section: San Diego to Alpine

Date 10/11/78

Time(PDT) 15 30




Scale: 10 mi

Cross-section: Long Beach to San Diego

Date 10/14/76

Time (PDT) 1600

# A P P E N D I X  I

## TRAJECTORY MAPS

PART I For observed maximum ozone levels aloft

PART II For maximum ozone values measured at San Diego APCD stations, trajectories based on wind flow at level of ozone maximum aloft.

(Trajectories based on analysis of surface winds shown by dashed-dot line.)

Previous positions of ozone-containing air parcels indicated by location; time shown by two-digit figures, using 24-hour clock, in Pacific Daylight Time.

Measured ozone values (in ppm) corresponding to time along trajectories shown by encircled figures, with off-trajectory location of measurement indicated by double arrowed dashed line.

Two-digit number preceeded by decimal point at the arrow head end of trajectory is the ozone concentration in ppm measured at indicated location.

10/5/76
1900 PDT

10/5/76 2300 PDT

1500 FT

10/6/76 1600 PDT
3500 FT

10/7/76 1300 PDT

500 FT.

118°

10/7/76 1600 PDT

500 FT

118°

10/7/76 1600 PDT

1000 FT

118°

10/7/76 1900 PDT
500 FT

118°

10/7/76 1900 PDT

1500 FT

118°

10/8/76 1500 PDT

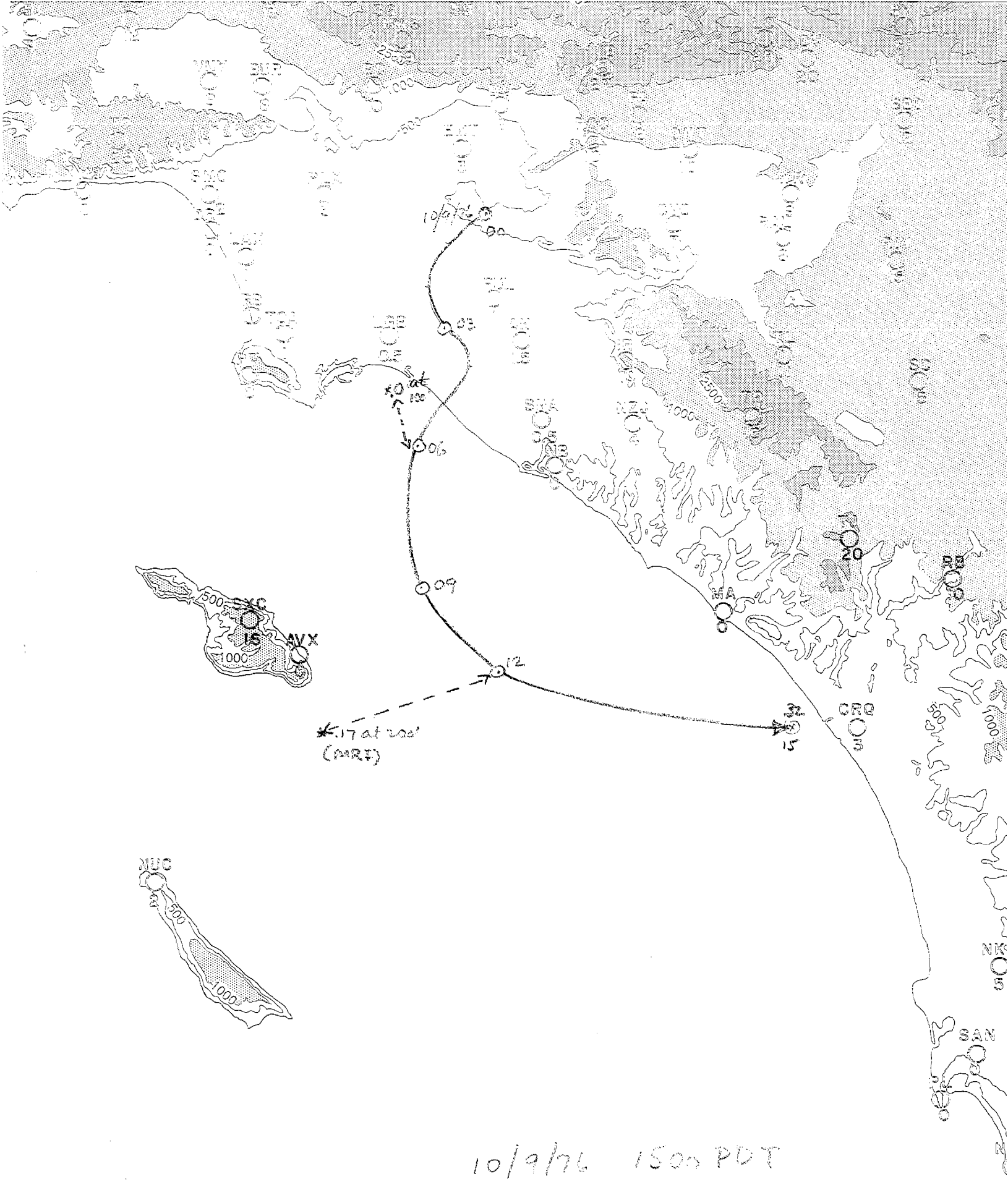
100 FT

118°

10/8/76 1600 PDT

100 FT

118°



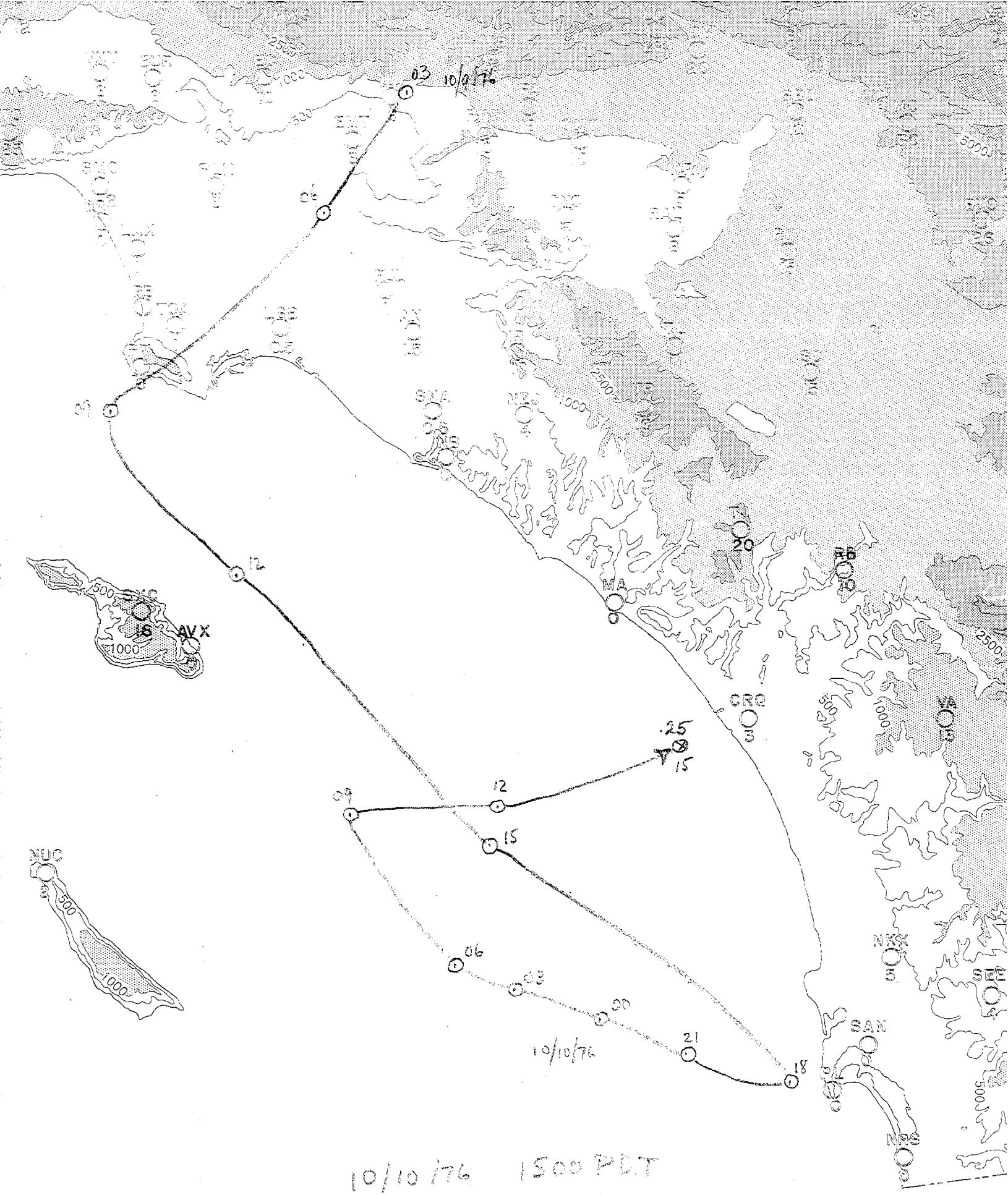

10/9/76 1500 PDT

100 FT

118°

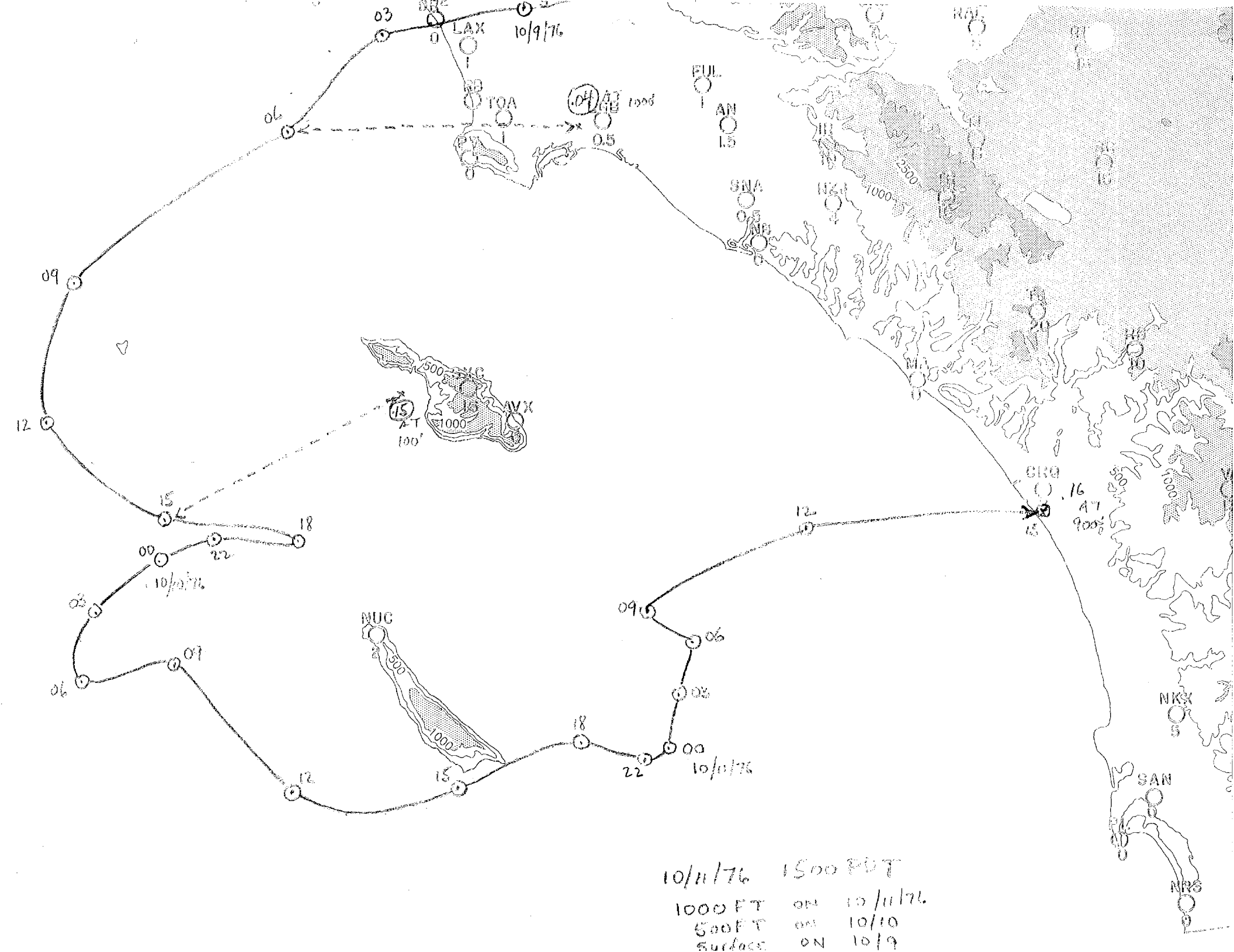
10/10/76 0600 PST

500 FT




10/10/76 1500 PDT

500 FT




10/11/76 1500 PDT

1000 FT ON 10/11/76
500 FT ON 10/10
Surface ON 10/9

10/12/76 1400 PDT

1000'

118°

10/12/76 1500 PDT

1000'

118°

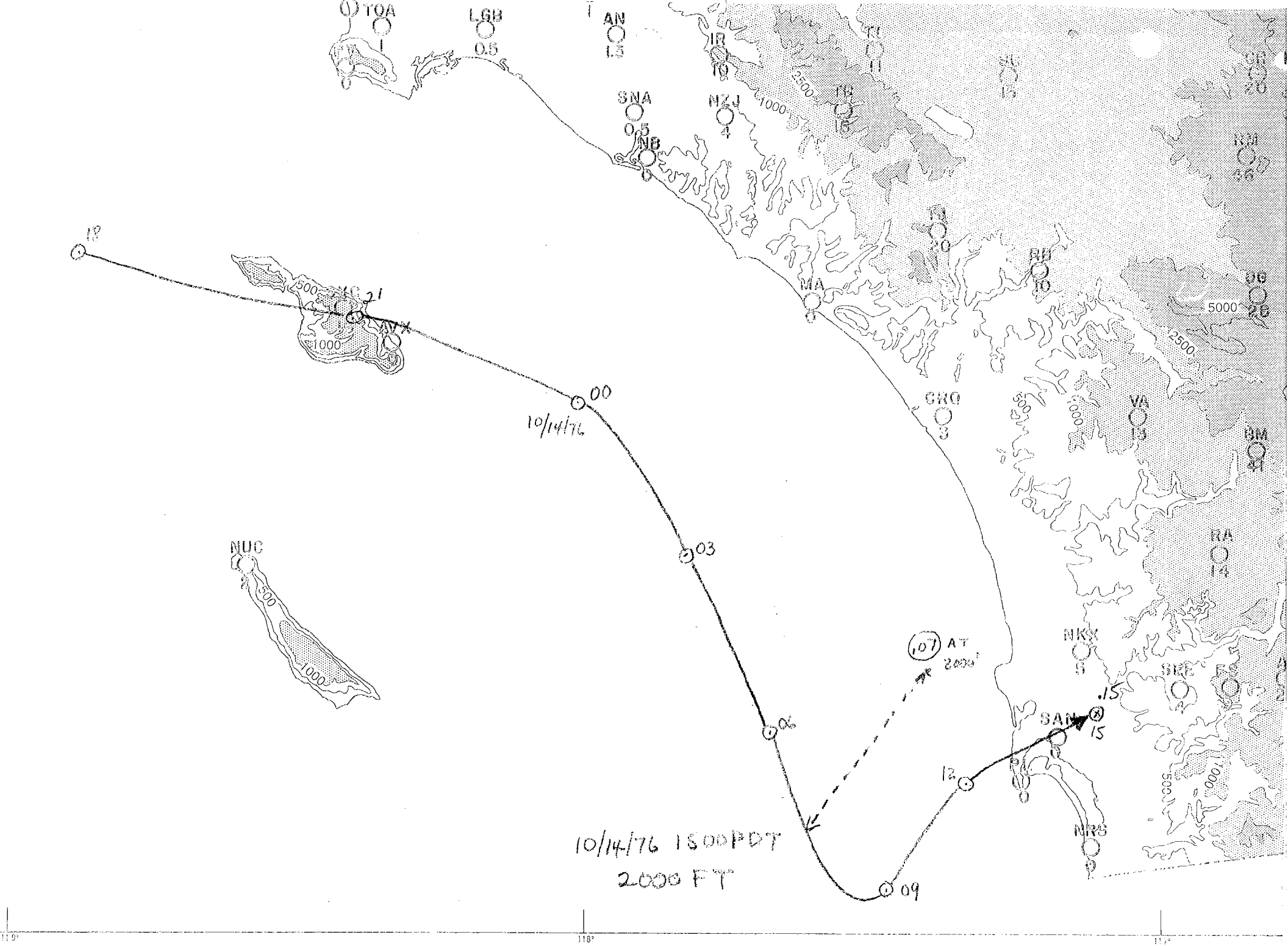
10/13/76 0900 PDT

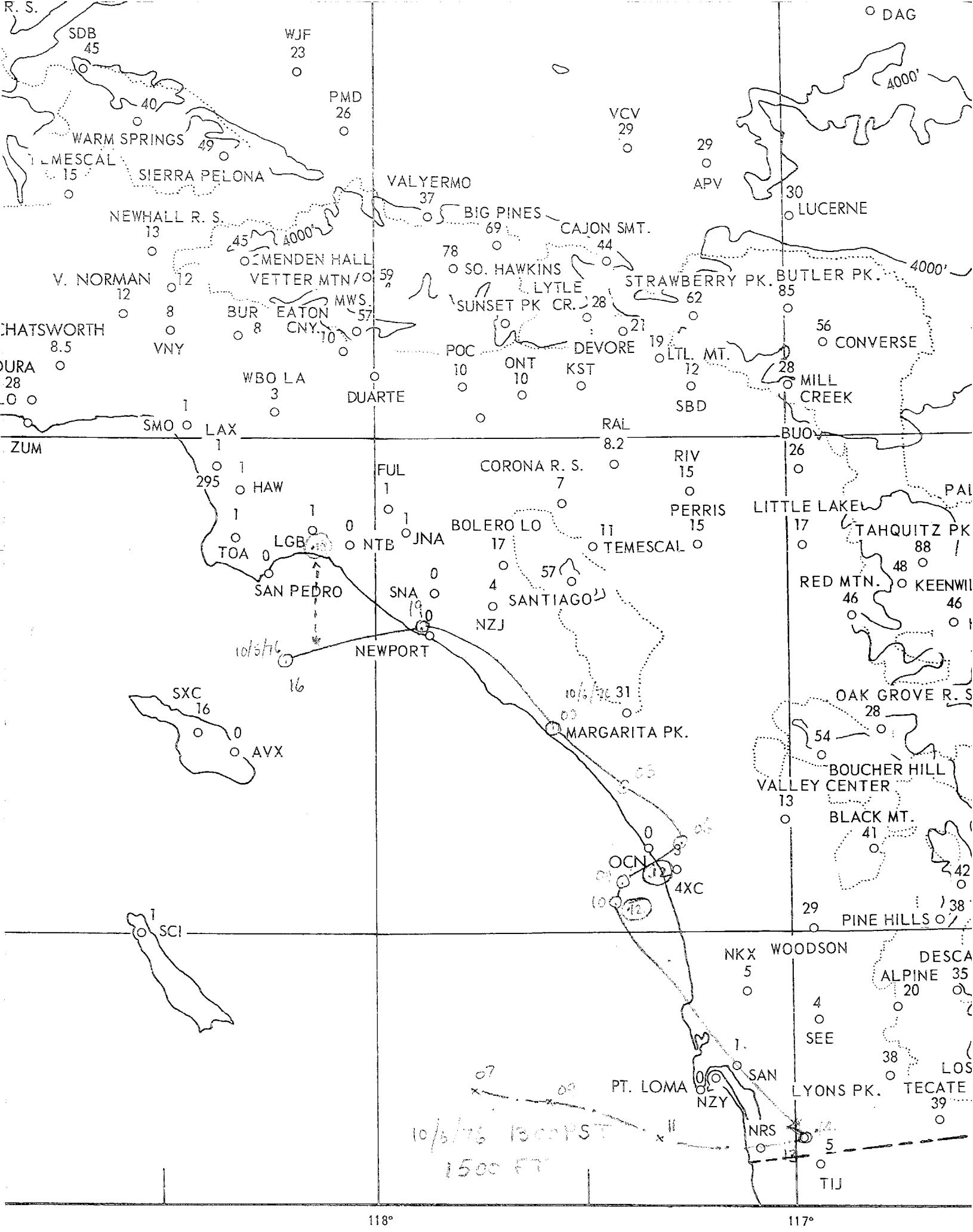
1000 FT

10/13/76 1500 PDT

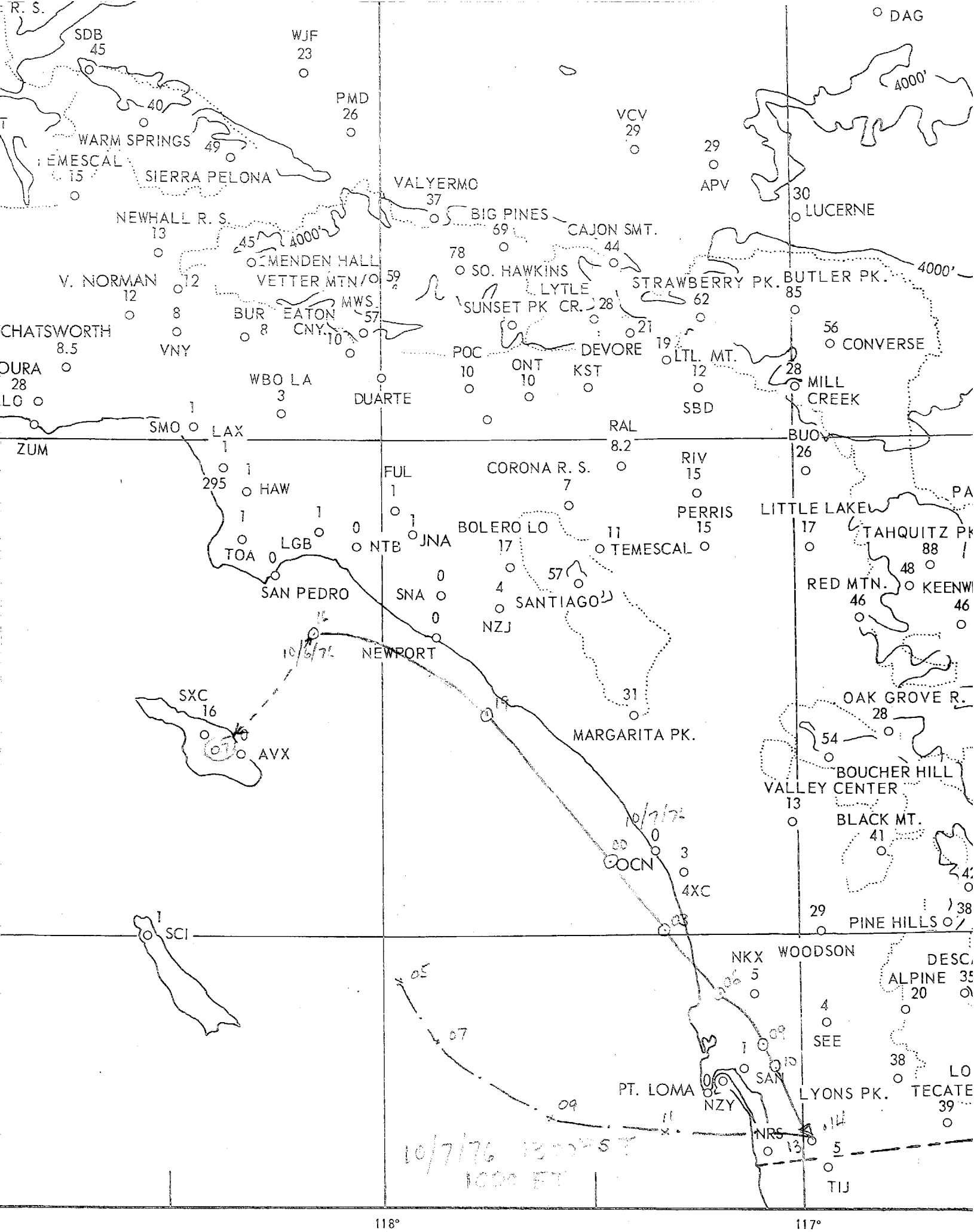
1000 FT

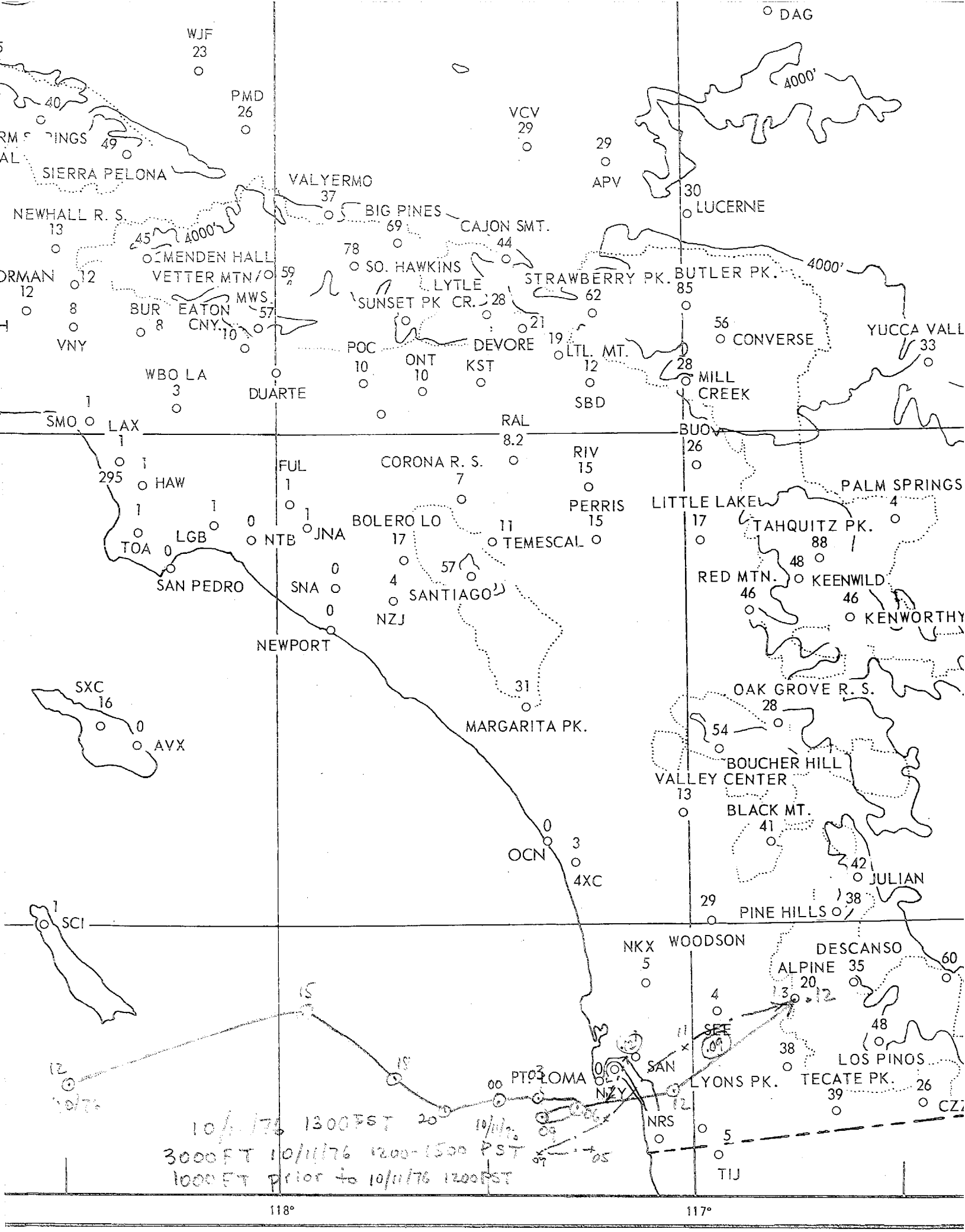
118°

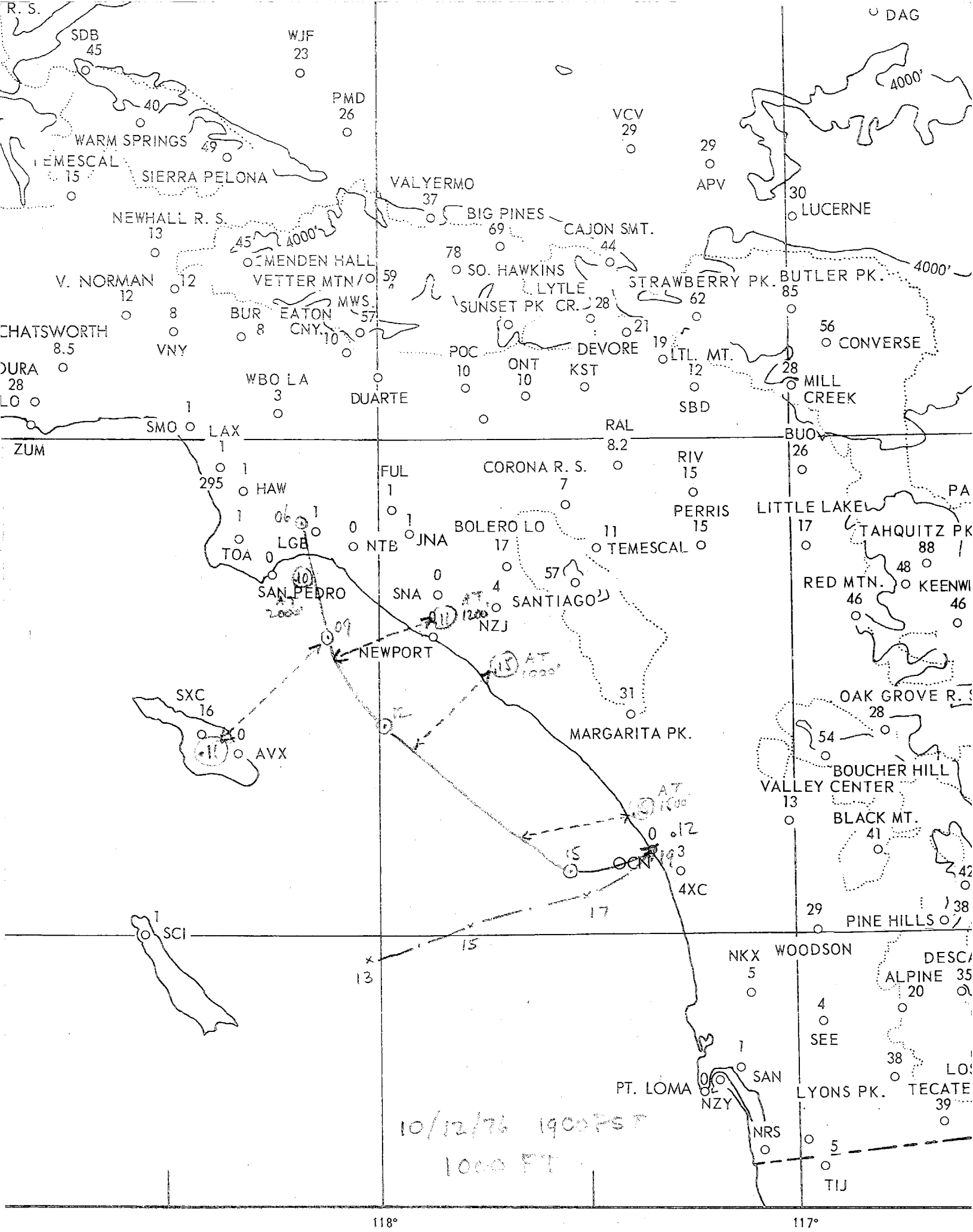

TOA
LGB
AN
IR
SNA
NZJ
NB
MA
CRO
VA
RA
NKX
SAN
NRS
NUC
AVX
00
03
06
09
12
15
18
21
10/14/76
.07 AT 2000'
10/14/76 1500PDT
2000 FT
500
1000
2500
5000
118°



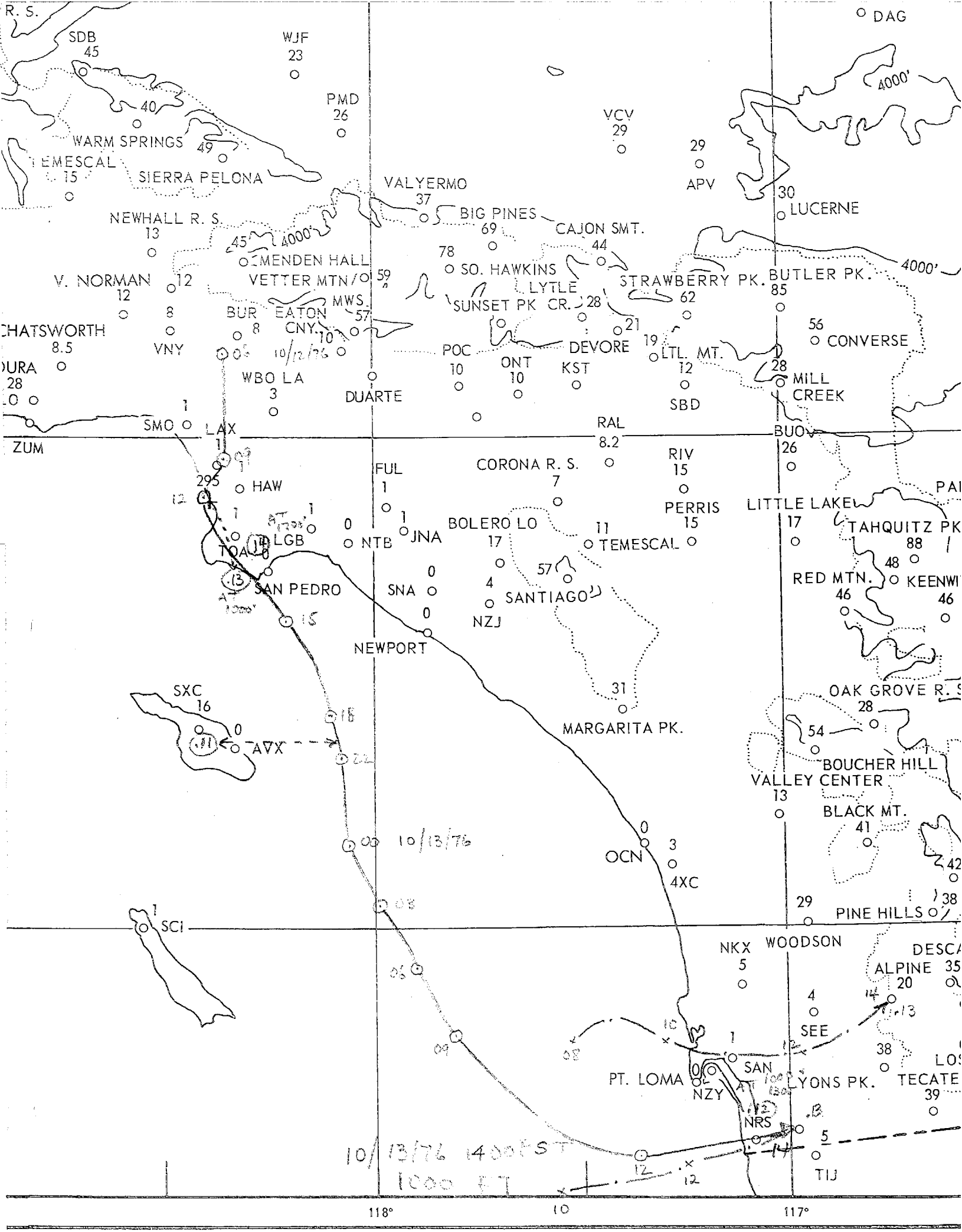
R. S.
SDB
45
WJF
23
DAG
4000'
PMD
26
40
WARM SPRINGS
49
VCV
29
29
APV
TEMESCAL
15
SIERRA PELONA
VALYERMO
37
30
LUCERNE
NEWHALL R. S.
13
45
4000'
BIG PINES
69
CAJON SMT.
44
MENDEN HALL
78
SO. HAWKINS
V. NORMAN
12
12
VETTER MTN
59
LYTLE
STRAWBERRY PK.
BUTLER PK.
85
4000'
MWS.
SUNSET PK
CR.
28
62
8
BUR
EATON
57
CHATSWORTH
8.5
8
CNY.
10
21
56
CONVERSE
VNY
POC
DEVORE
19
LTL. MT.
DURA
28
10
ONT
10
KST
12
28
MILL
CREEK
WBO LA
3
DUARTE
SBD
1
SMO
LAX
1
RAL
8.2
BUO
26
ZUM
1
295
HAW
FUL
1
CORONA R. S.
7
RIV
15
PAL
1
1
0
1
BOLERO LO
17
11
PERRIS
15
LITTLE LAKE
17
TAHQUITZ PK
88
TOA
0
LGB
NTB
JNA
TEMESCAL
48
0
57
RED MTN.
46
KEENWIL
46
SAN PEDRO
SNA
4
SANTIAGO
19
0
NZJ
10/5/76
NEWPORT
16
SXC
16
10/6/76
31
OAK GROVE R. S
28
0
AVX
MARGARITA PK.
54
BOUCHER HILL
VALLEY CENTER
13
BLACK MT.
41
0
OCN
4XC
42
29
38
PINE HILLS
1
SCI
NKX
5
WOODSON
DESCA
ALPINE
20
35
4
SEE
1
38
LOS
SAN
PT. LOMA
0
NZY
LYONS PK.
TECATE
39
NRS
5
TIJ
10/6/76 1300 PST
1500 FT
118°
117°


R. S.
SDB
45
WJF
23
PMD
26
VCV
29
DAG
4000'
40
WARM SPRINGS
49
EMESCAL
15
SIERRA PELONA
VALYERMO
37
29
APV
30
LUCERNE
NEWHALL R. S.
13
45
4000'
BIG PINES
69
CAJON SMT.
44
MENDEN HALL
78
SO. HAWKINS
V. NORMAN
12
12
VETTER MTN
59
LYTLE
SUNSET PK
CR.
28
STRAWBERRY PK.
62
BUTLER PK.
85
4000'
MWS
57
BUR
8
EATON
CNY.
10
21
CHATSWORTH
8.5
VNY
POC
DEVORE
19
LTL. MT.
56
CONVERSE
OURA
28
LO
WBO LA
3
DUARTE
10
ONT
10
KST
12
SBD
28
MILL
CREEK
1
SMO
LAX
1
RAL
8.2
BUO
ZUM
295
HAW
1
FUL
1
CORONA R. S.
7
RIV
15
26
PERRIS
15
LITTLE LAKE
17
TAHQUITZ PK
88
TOA
0
LGB
0
NTB
1
JNA
BOLERO LO
17
11
TEMESCAL
48
RED MTN.
46
KEENW
46
SAN PEDRO
0
SNA
0
4
SANTIAGO
57
NZJ
10/6/72
NEWPORT
SXC
16
AVX
OAK GROVE R.
28
31
MARGARITA PK.
54
BOUCHER HILL
VALLEY CENTER
13
BLACK MT.
41
10/7/72
0
OCN
3
4XC
29
PINE HILLS
38
1
SCI
NKX
5
WOODSON
DESC
ALPINE
20
35
4
SEE
38
LO
PT. LOMA
NZY
SAN
LYONS PK.
TECATE
39
NRS
13
5
TIJ
10/7/72
1000 FT
118°
117°

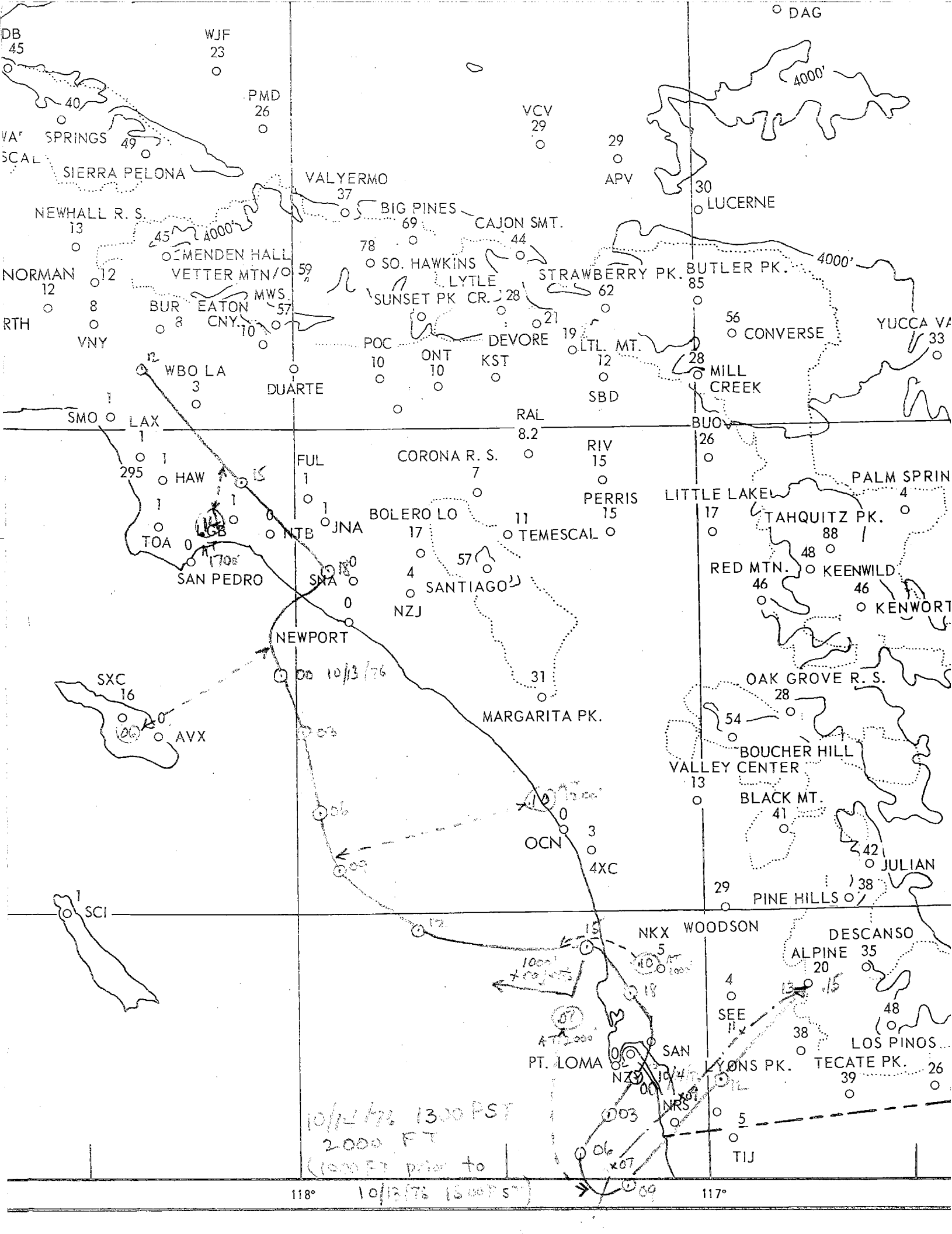

DAG
WJF
23
PMD
26
VCV
29
29
APV
4000'
40
49
SIERRA PELONA
VALYERMO
37
30
LUCERNE
NEWHALL R. S.
13
45
4000'
BIG PINES
69
CAJON SMT.
44
MENDEN HALL
78
SO. HAWKINS
VETTER MTN
59
LYTLE
STRAWBERRY PK.
62
BUTLER PK.
85
4000'
12
12
8
VNY
BUR
8
EATON
CNY.
10
MWS.
57
SUNSET PK
CR.
28
21
56
CONVERSE
YUCCA VALL
33
POC
10
ONT
10
DEVORE
KST
19
LTL. MT.
12
SBD
28
MILL
CREEK
WBO LA
3
DUARTE
1
SMO
LAX
1
RAL
8.2
BUO
26
295
1
HAW
FUL
1
CORONA R. S.
7
RIV
15
PERRIS
15
LITTLE LAKE
17
PALM SPRINGS
4
1
1
0
1
JNA
BOLERO LO
17
11
TEMESCAL
TAHQUITZ PK.
88
TOA
0
LGB
NTB
SAN PEDRO
0
SNA
0
4
NZJ
57
SANTIAGO
48
RED MTN.
46
KEENWILD
46
KENWORTHY
NEWPORT
31
MARGARITA PK.
SXC
16
0
AVX
OAK GROVE R. S.
28
54
BOUCHER HILL
VALLEY CENTER
13
BLACK MT.
41
0
OCN
3
4XC
42
JULIAN
29
38
PINE HILLS
1
SCI
NKX
5
WOODSON
DESCANSO
35
60
ALPINE
20
4
SEE
.09
48
38
LOS PINOS
TECATE PK.
39
26
CZZ
PT. LOMA
NZY
SAN
LYONS PK.
NRS
5
TIJ
10/11/76 1300 PST
3000 FT 10/11/76 1200-1500 PST
1000 FT prior to 10/11/76 1200 PST
118°
117°



R. S.
SDB
45
WJF
23
DAG
4000'
PMD
26
40
WARM SPRINGS
49
TEMESCAL
15
SIERRA PELONA
VCV
29
29
APV
VALYERMO
37
30
LUCERNE
NEWHALL R. S.
13
45
4000'
BIG PINES
69
CAJON SMT.
44
MENDEN HALL
78
SO. HAWKINS
V. NORMAN
12
12
VETTER MTN
59
LYTLE
CR.
STRAWBERRY PK.
62
BUTLER PK.
85
4000'
MWS.
57
SUNSET PK
28
8
BUR
8
EATON
CNY.
10
21
CHATSWORTH
8.5
VNY
POC
10
DEVORE
19
LTL. MT.
12
56
CONVERSE
DURA
28
LO
WBO LA
3
ONT
10
KST
28
MILL
CREEK
DUARTE
SBD
1
SMO
LAX
1
RAL
8.2
BUO
26
ZUM
295
1
HAW
FUL
1
CORONA R. S.
7
RIV
15
PA
1
06
1
0
1
JNA
BOLERO LO
17
11
TEMESCAL
PERRIS
15
LITTLE LAKE
17
TAHQUITZ PK
88
TOA
0
LGB
NTB
0
SAN PEDRO
AT 2000'
SNA
4
57
SANTIAGO
AT 1200'
NZJ
48
RED MTN.
46
KEENWI
46
09
NEWPORT
AT 1000'
SXC
16
0
AVX
31
MARGARITA PK.
OAK GROVE R. S
28
54
BOUCHER HILL
VALLEY CENTER
13
BLACK MT.
41
AT 1500'
0
12
15
OCN
3
4XC
42
17
29
PINE HILLS
38
1
SCI
15
13
NKX
5
WOODSON
DESCA
ALPINE
20
35
4
SEE
1
SAN
38
LOS
PT. LOMA
NZY
LYONS PK.
TECATE
39
NRS
5
TIJ
10/12/76 1900 PST
1000 FT
118°
117°



R. S.
SDB
45
WJF
23
DAG
4000'
PMD
26
40
WARM SPRINGS
49
TEMESCAL
15
SIERRA PELONA
VCV
29
29
APV
VALYERMO
37
30
LUCERNE
NEWHALL R. S.
13
45
4000'
BIG PINES
69
CAJON SMT.
44
MENDEN HALL
78
SO. HAWKINS
V. NORMAN
12
12
VETTER MTN
59
LYTLE
CR.
28
STRAWBERRY PK.
62
BUTLER PK.
85
4000'
MWS.
57
SUNSET PK
21
8
BUR
8
EATON
CNY.
10
CHATSWORTH
8.5
VNY
10/12/76
POC
10
ONT
10
DEVORE
KST
19
LTL. MT.
12
56
CONVERSE
28
MILL
CREEK
WBO LA
3
DUARTE
SBD
1
SMO
LAX
1
ZUM
RAL
8.2
BUO
26
RIV
15
FUL
1
CORONA R. S.
7
295
HAW
PERRIS
15
LITTLE LAKE
17
TAHQUITZ PK
88
1
1
0
1
JNA
BOLERO LO
17
11
TEMESCAL
TOA
LGB
NTB
48
RED MTN.
46
KEENWI
46
SAN PEDRO
0
SNA
4
SANTIAGO
57
NZJ
0
NEWPORT
31
MARGARITA PK.
OAK GROVE R. S
28
SXC
16
0
AVX
54
BOUCHER HILL
VALLEY CENTER
13
BLACK MT.
41
10/13/76
0
OCN
3
4XC
42
29
PINE HILLS
38
1
SCI
NKX
5
WOODSON
DESCA
ALPINE
20
35
4
SEE
38
LOS
PT. LOMA
0
NZY
SAN
LYONS PK.
TECATE
39
NRS
5
TIJ
10/13/76 1400 FST
1000 FT
118°
117°


DAG
4000'
DB
45
WJF
23
PMD
26
40
SPRINGS
49
SIERRA PELONA
VCV
29
29
APV
VALYERMO
37
30
LUCERNE
NEWHALL R. S.
13
BIG PINES
69
CAJON SMT.
44
45
4000'
MENDEN HALL
78
SO. HAWKINS
NORMAN
12
12
VETTER MTN
59
LYTLE
STRAWBERRY PK.
BUTLER PK.
4000'
MWS
57
SUNSET PK
CR.
28
62
85
BUR
EATON
CNY.
8
8
10
21
56
CONVERSE
YUCCA VA
VNY
POC
DEVORE
19
LTL. MT.
33
WBO LA
3
DUARTE
10
ONT
10
KST
12
28
MILL
CREEK
SBD
SMO
LAX
1
RAL
8.2
BUO
26
CORONA R. S.
7
RIV
15
FUL
1
PALM SPRIN
4
295
HAW
PERRIS
15
LITTLE LAKE
17
BOLERO LO
17
11
TEMESCAL
15
TAHQUITZ PK.
88
48
TOA
0
LGB
NTB
JNA
RED MTN.
46
KEENWILD
46
SAN PEDRO
SNA
4
SANTIAGO
57
NZJ
KENWORT
NEWPORT
SXC
16
31
OAK GROVE R. S.
28
MARGARITA PK.
54
AVX
BOUCHER HILL
VALLEY CENTER
13
BLACK MT.
41
OCN
3
4XC
42
JULIAN
29
38
PINE HILLS
SCI
1
NKX
WOODSON
DESCANSO
ALPINE
35
20
4
SEE
48
38
LOS PINOS
PT. LOMA
SAN
LYONS PK.
TECATE PK.
39
26
NRS
5
TIJ
10/12/76 1300 PST
2000 FT
(1000 FT prior to
10/13/76 1600 PST)
118°
117°