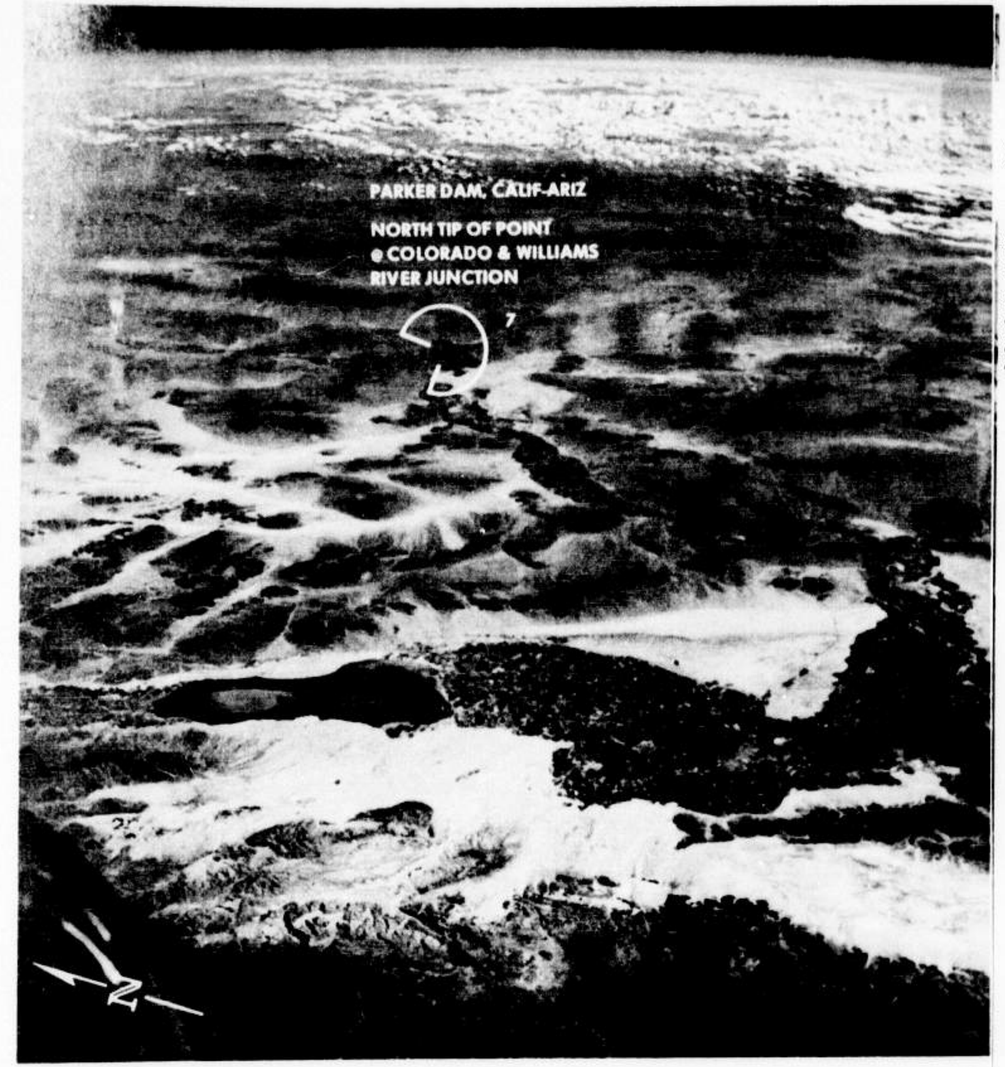
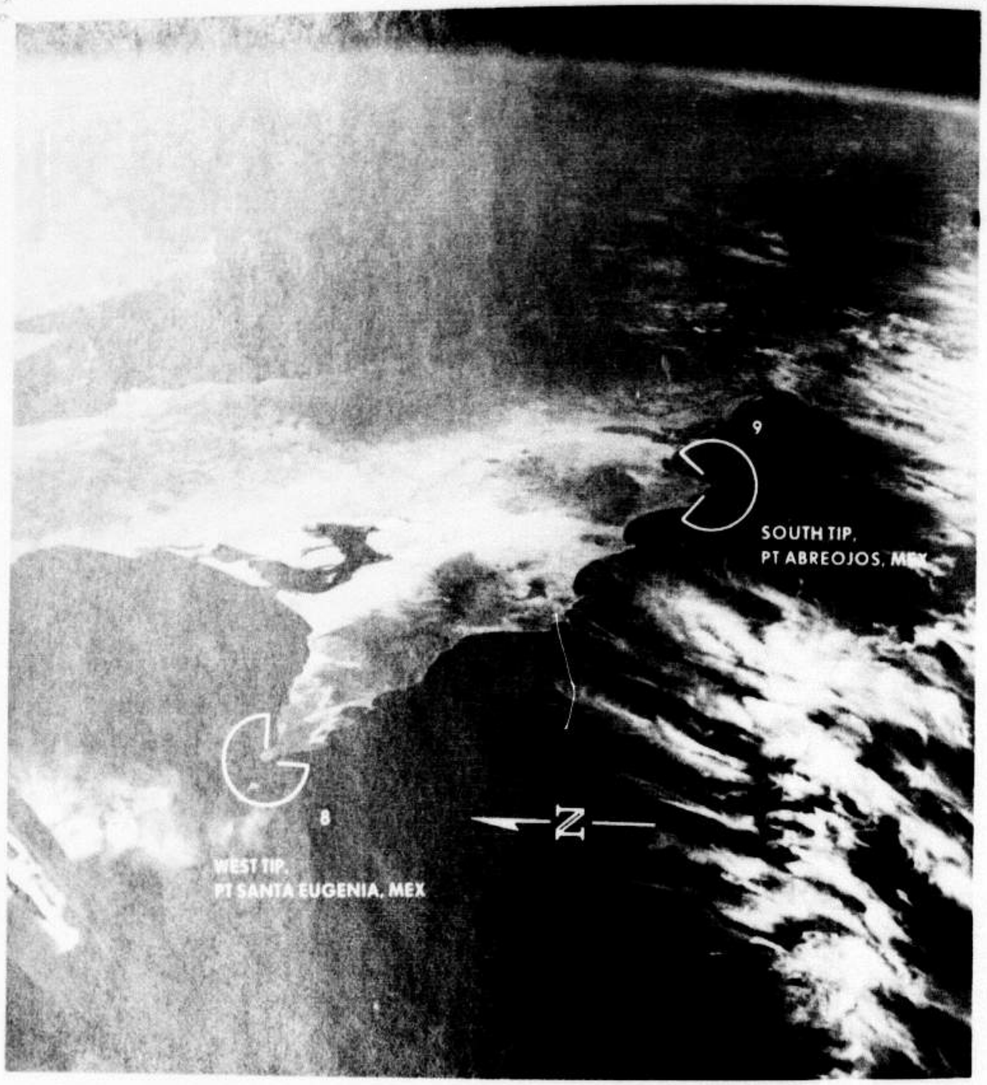
APOLLO 8	
LANDMARK MAPS & PHOTOS	
PART NO.	S/N
SKB 32100026-301	1004

L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
6	32.719° N.	59.302° W.	118.606° W.	-.01	±0.01
6	32.665° N.	58.621° W.	117.242° W.	0	±0.00



8.9
8.10
8.9.10.11.12.13
12

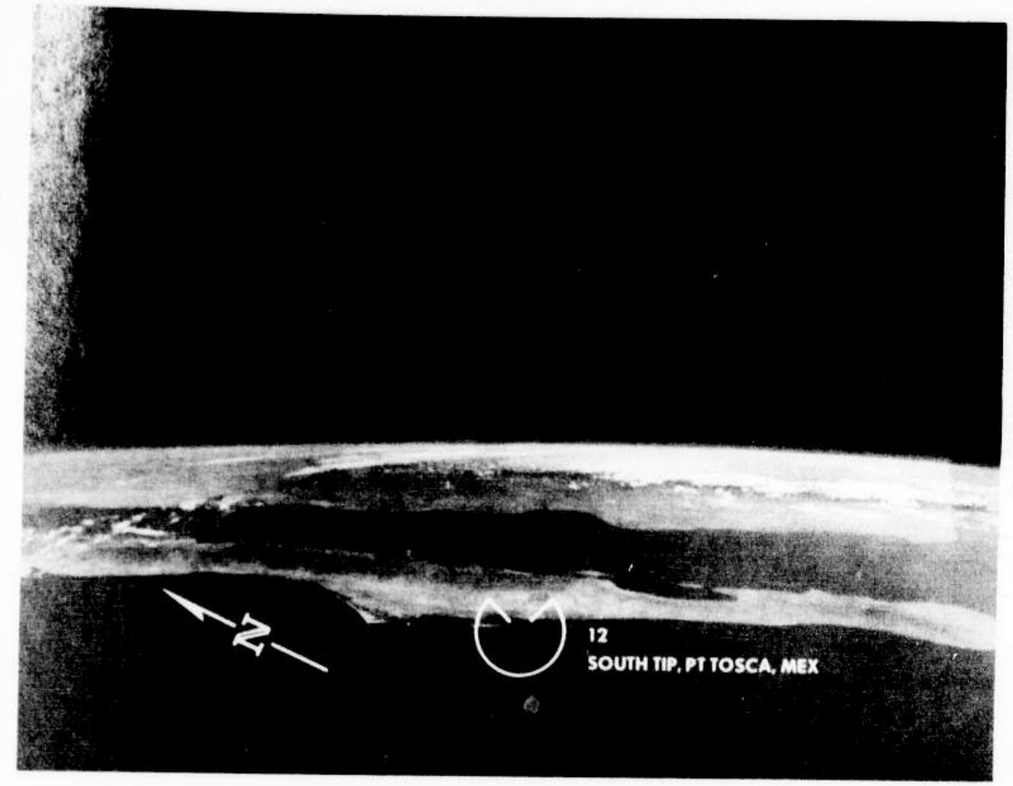
L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
7	34.301° N.	57.063° W.	114.136° W.	+.07	±0.03



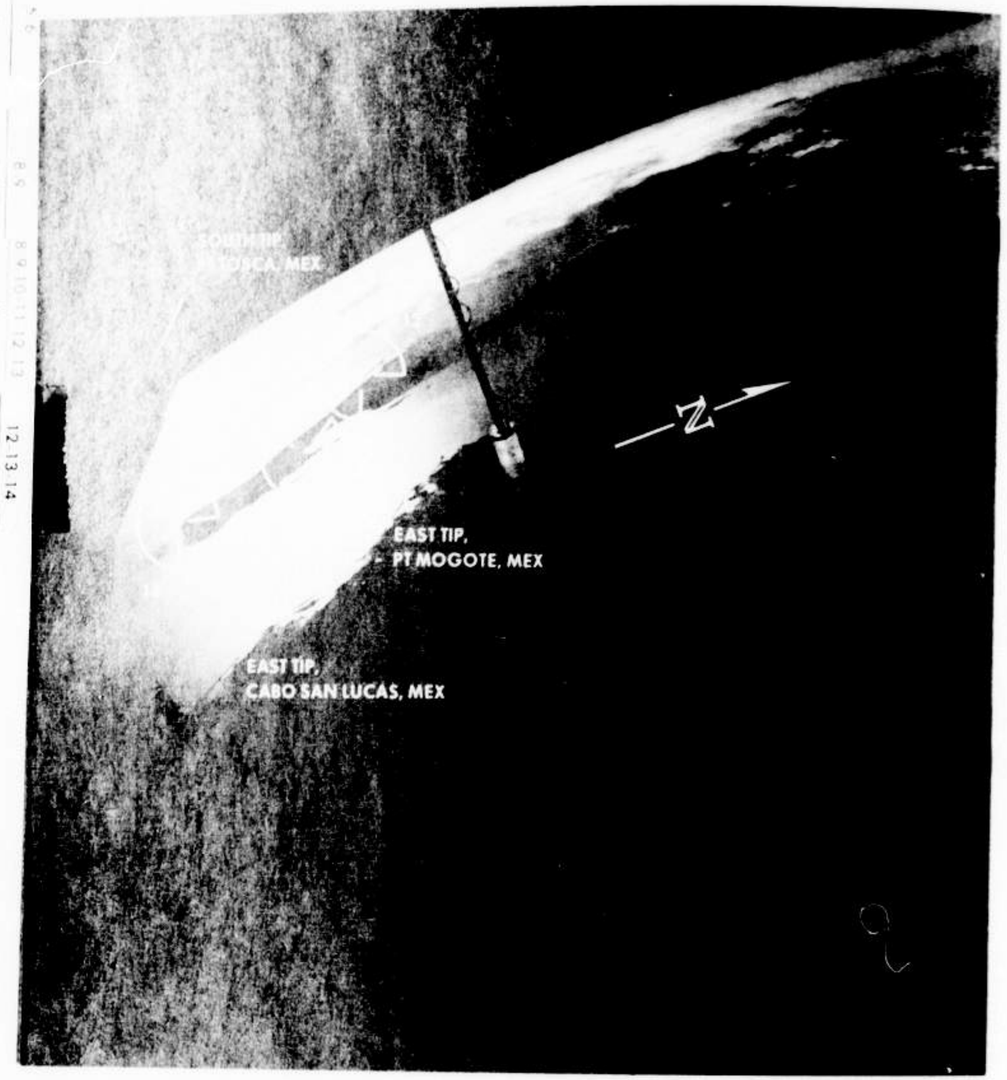
L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
9	27.852° N	57.540° W	115.081° W	0	±0.45
8	26.729° N	56.790° W	113.580° W	0	±0.45

L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
8	27.852° N	57.540° W	115.081° W	0	±0.45
10	28.876° N	56.292° W	112.585° W	0	±0.11

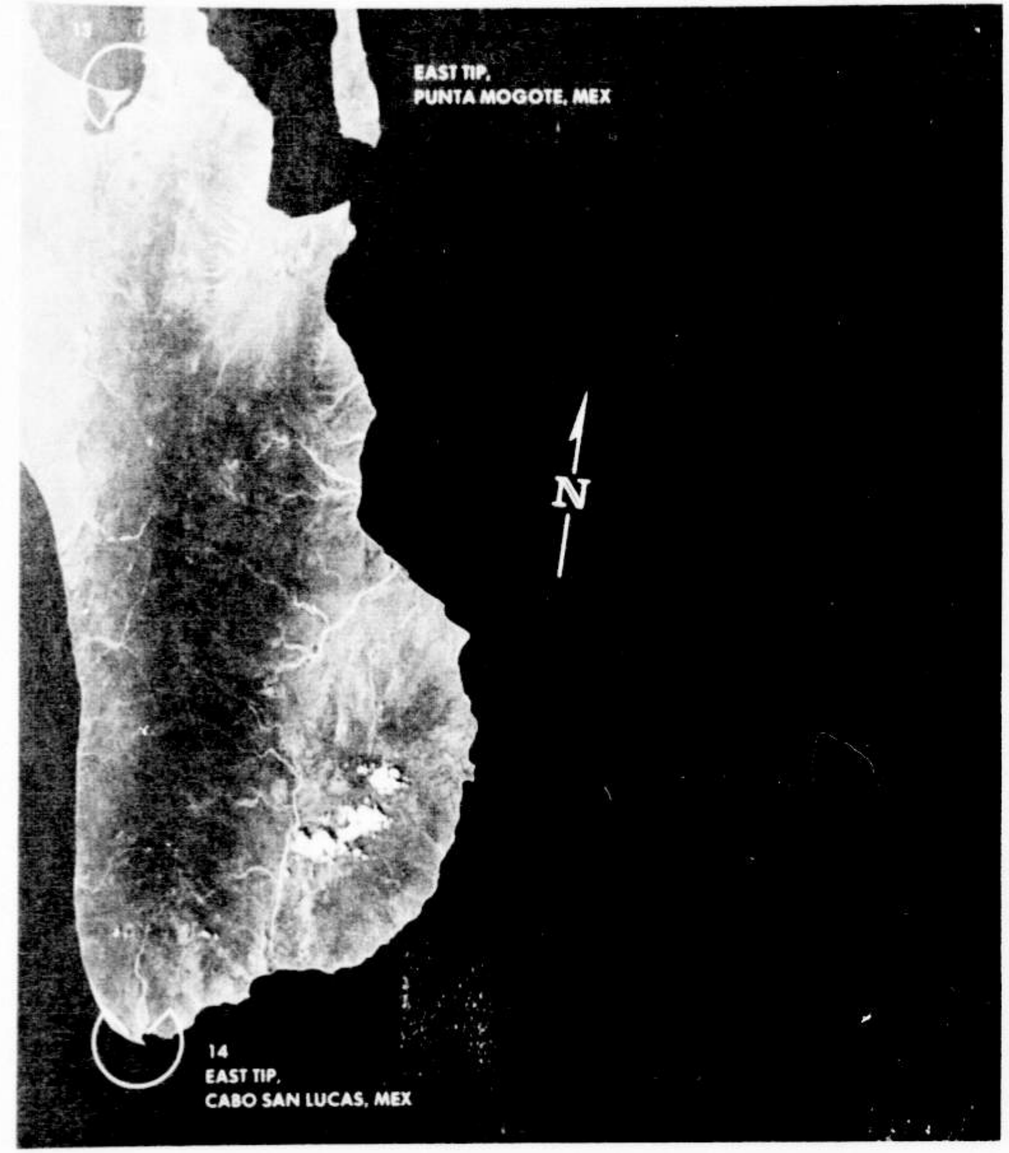
L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG. 2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
[illegible]	27.532° N	57.540° W	115.081° W	0	±0.45
10	26.729° N	56.790° W	113.580° W	0	±0.45
11	28.876° N	56.292° W	112.585° W	0	±0.11
12	27.839° N	55.442° W	110.885° W	0	±0.11
13	24.317° N	55.861° W	111.722° W	0	±0.45
[illegible]	24.180° N	55.150° W	110.300° W	0	±0.45



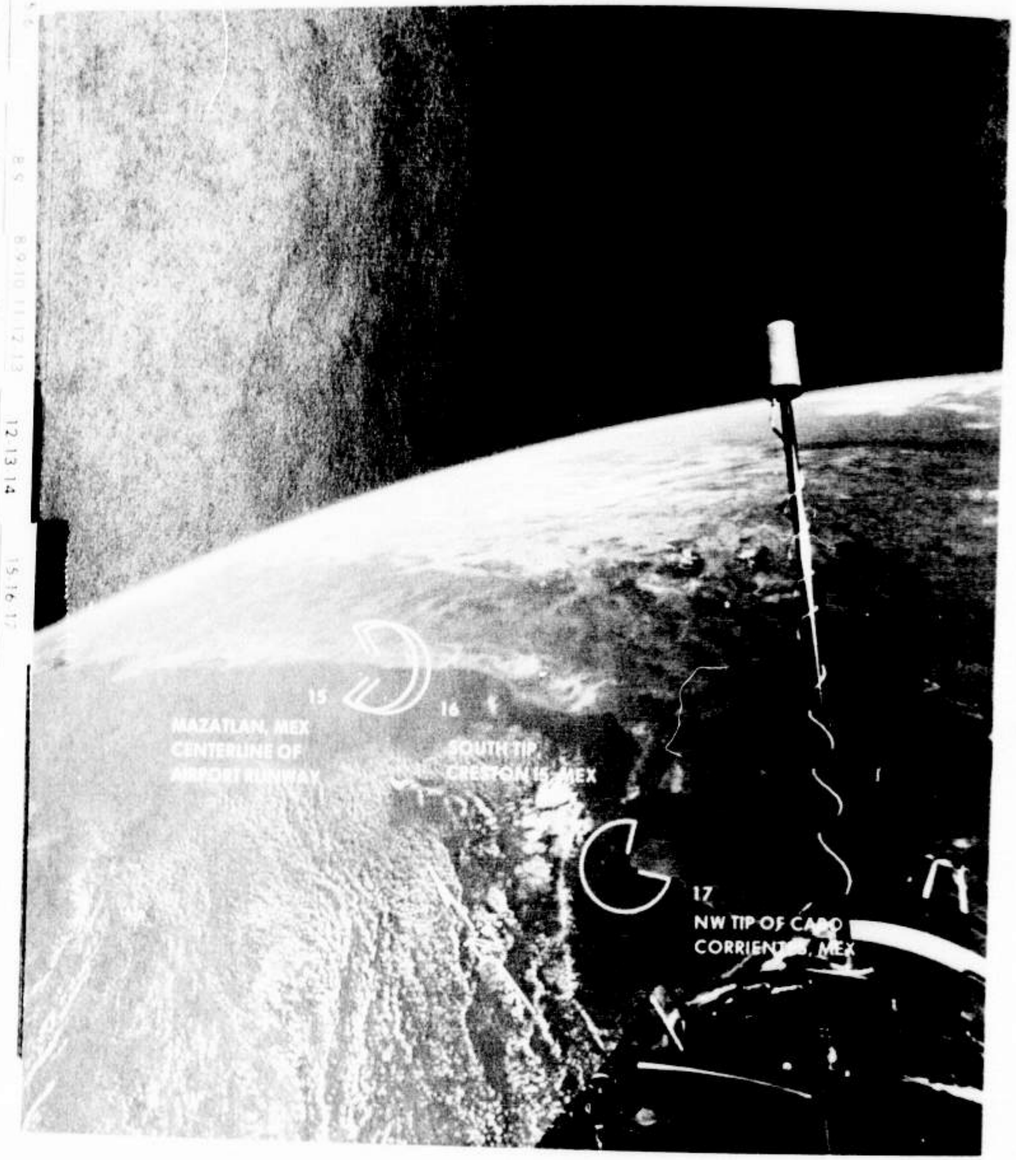
L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG. 2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
12	24.317° N	55.861° W	111.722° W	0	±0.45



L.M. NO	± GEODETIC LAT TO .001'	± GEODETIC LONG 2 TO .001'	± GEODETIC LONG TO .001'	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
12	24.313' N	55.861' W	111.722' W	0	±0.45
13	24.180' N	55.150' W	110.300' W	0	±0.45
14	22.871' N	54.945' W	109.891' W	0	±0.45

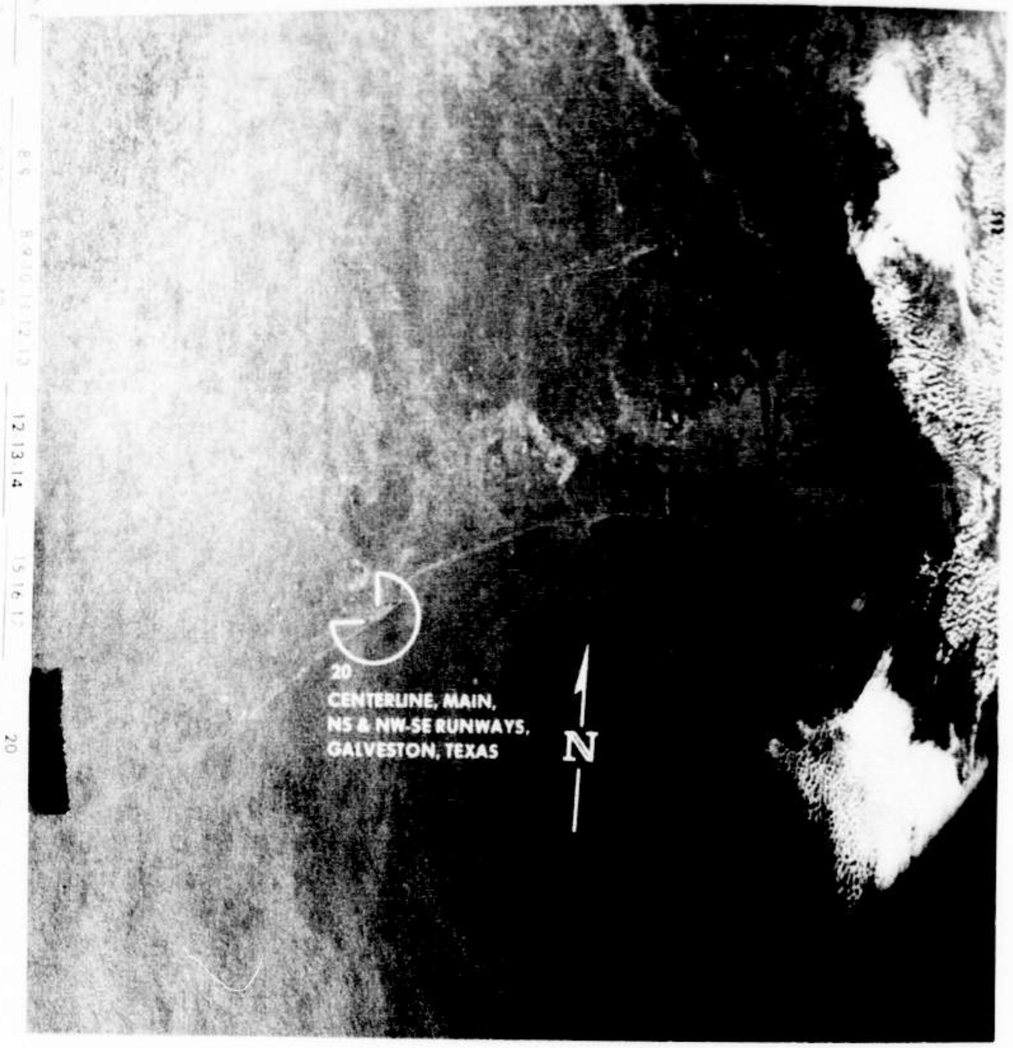


L.M. NO	± GEODETIC LAT TO .001'	± GEODETIC LONG 2 TO .001'	± GEODETIC LONG TO .001'	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
13	24.180' N	55.150' W	110.300' W	0	±0.45
14	22.871' N	54.945' W	109.891' W	0	±0.45



L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
15	23.232° N	53.215° W	106.430° W	0	±0.38
16	23.175° N	53.215° W	106.430° W	0	±0.17
17	20.896° N	52.851° W	105.703° W	0	±0.23

L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
18	31.855° N	53.188° W	106.375° W	±0.64	±0.02

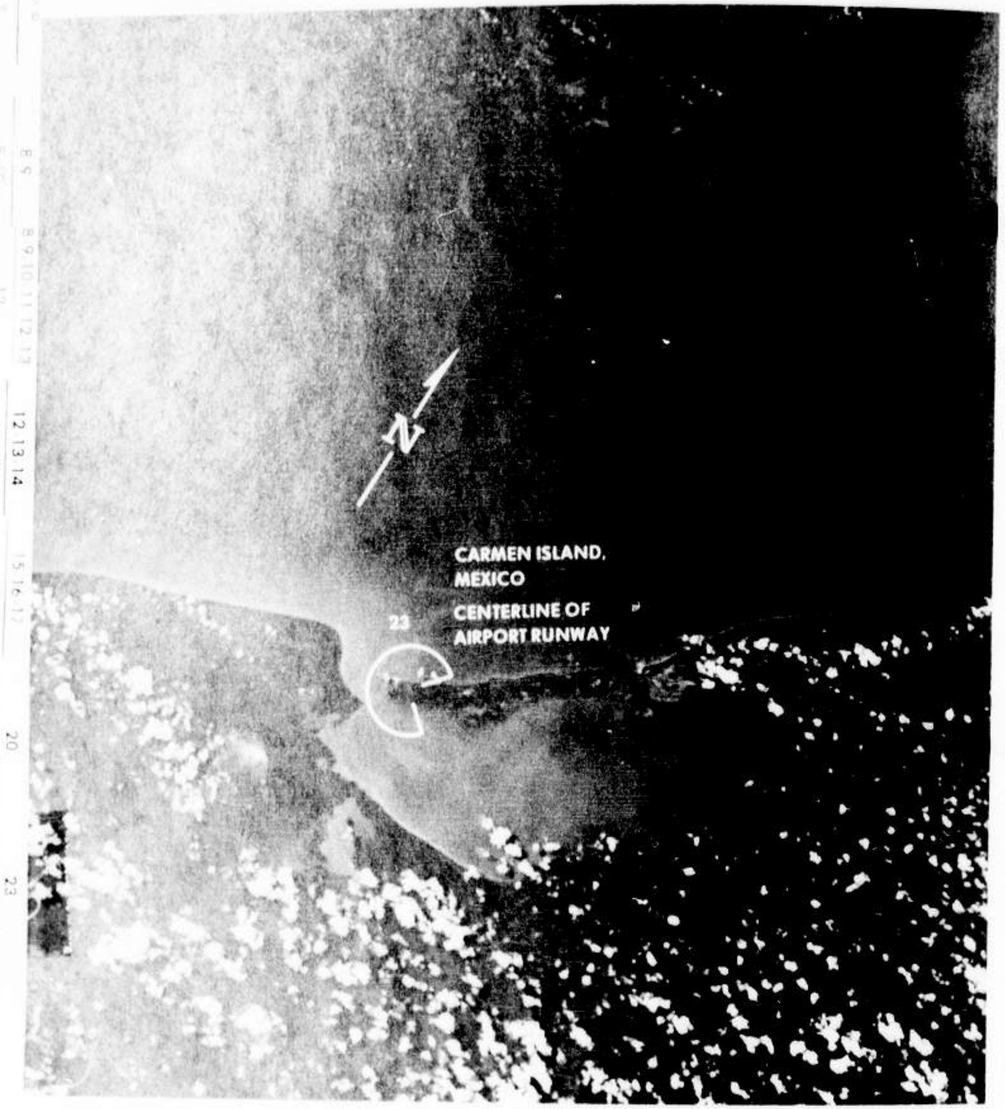


20
CENTERLINE, MAIN,
NS & NW-SE RUNWAYS,
GALVESTON, TEXAS

L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	+ GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
20	29.263° N	47.430° W	94.860° W	0	±0.01

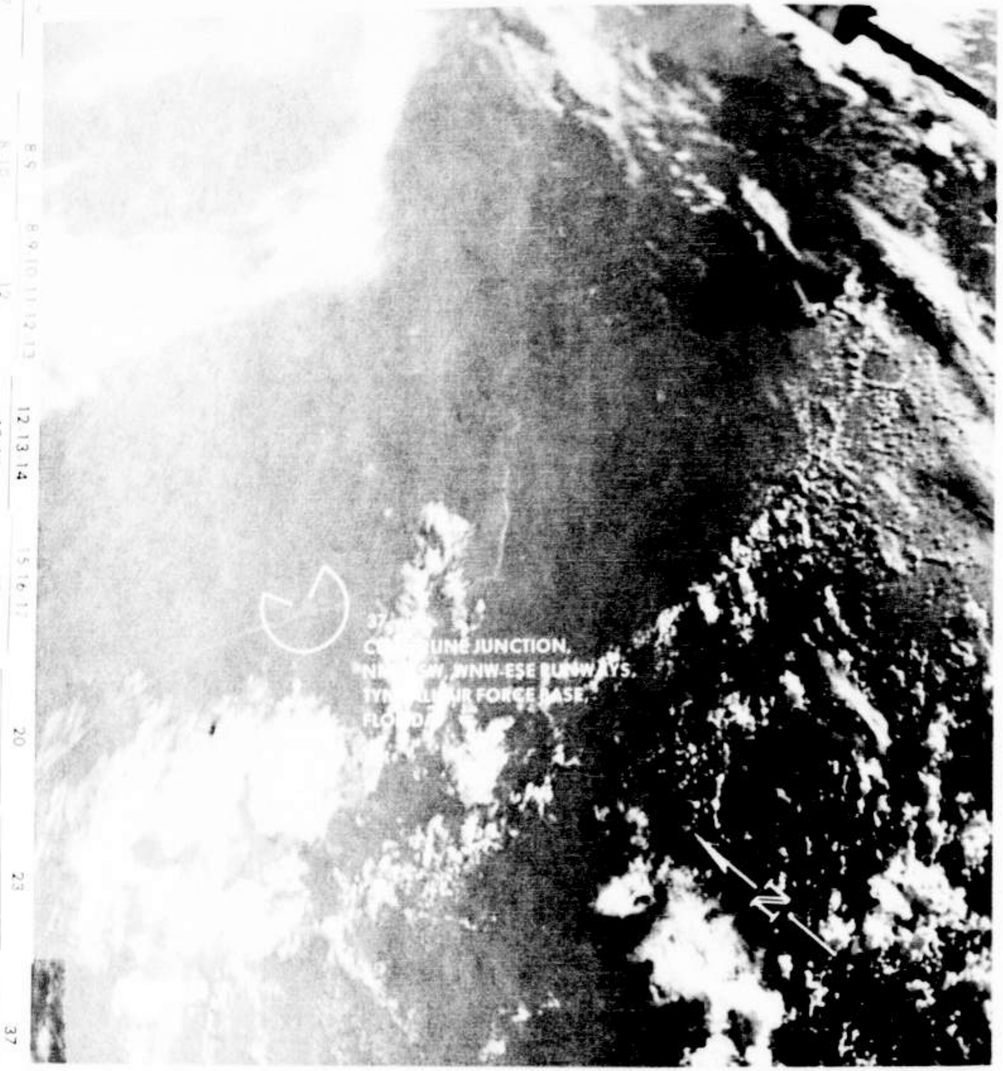
EAST TIP, DEMIT ISLAND
CORPUS CHRISTI, TEXAS
21

L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	+ GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
21	27.689° N	48.621° W	97.243° W	0	±0.01

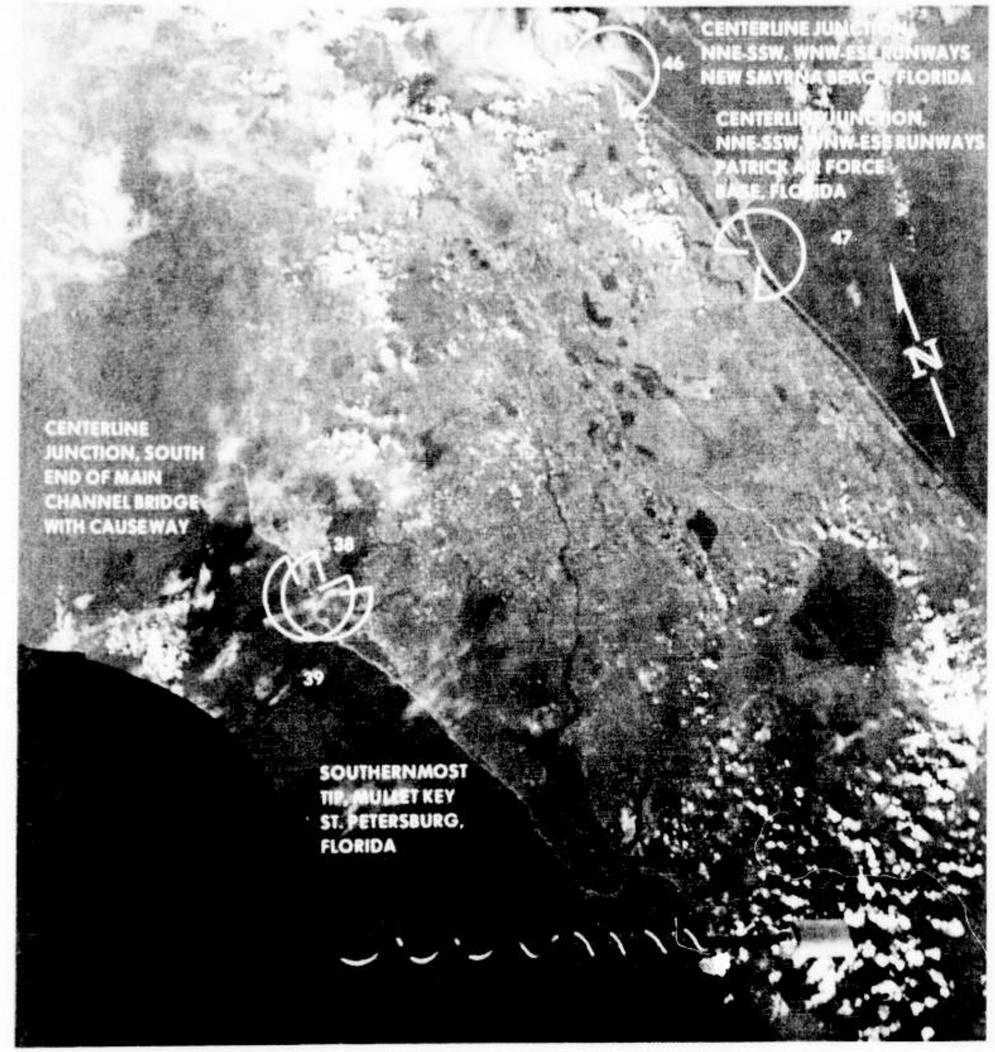


L.M. NO.	+ GEODETIC LAT. TO .001°	+ GEODETIC LONG. /2 TO .001°	+ GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
23	18.606° N	45.703° W	91.806° W	0	±0.31

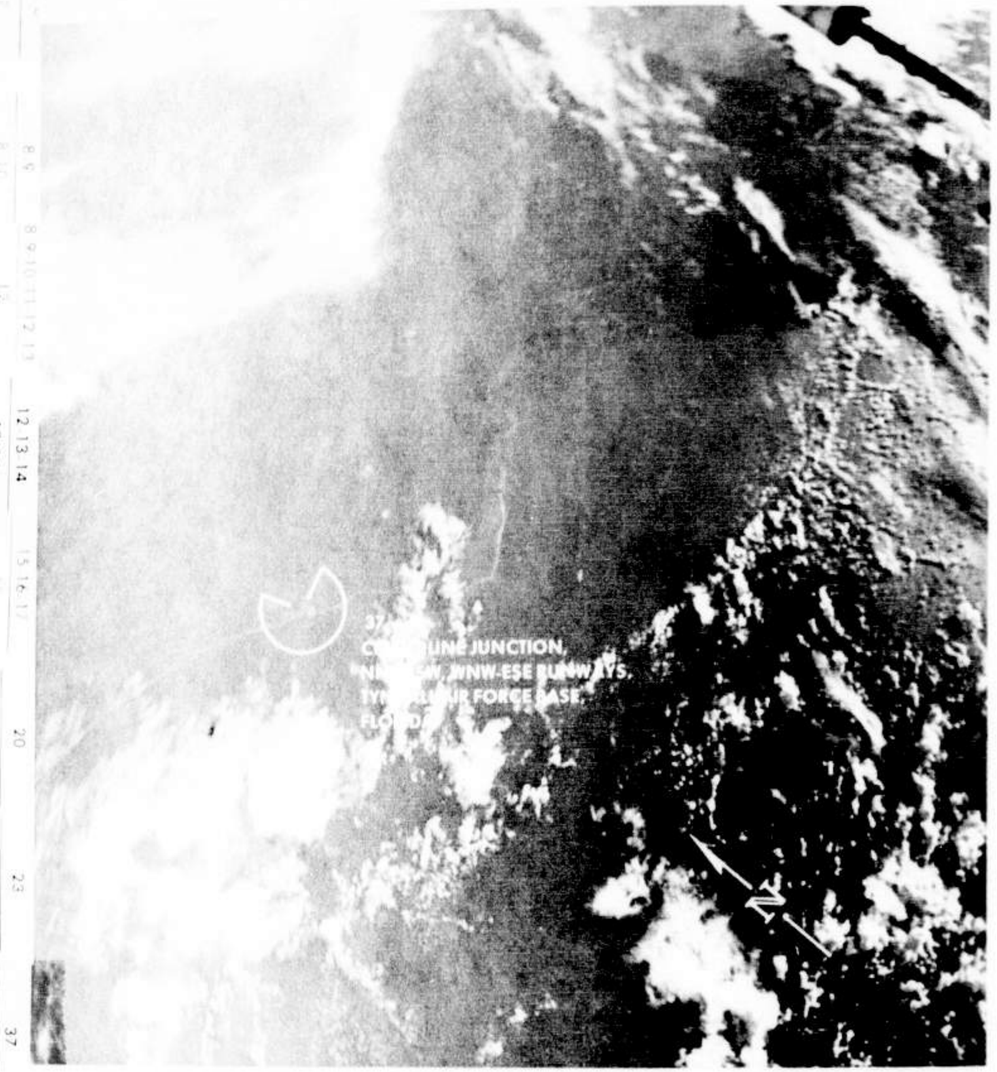
L.M. NO.	+ GEODETIC LAT. TO .001°	+ GEODETIC LONG. /2 TO .001°	+ GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
27	14.047° N	41.691° W	83.383° W	+0.01	±0.05



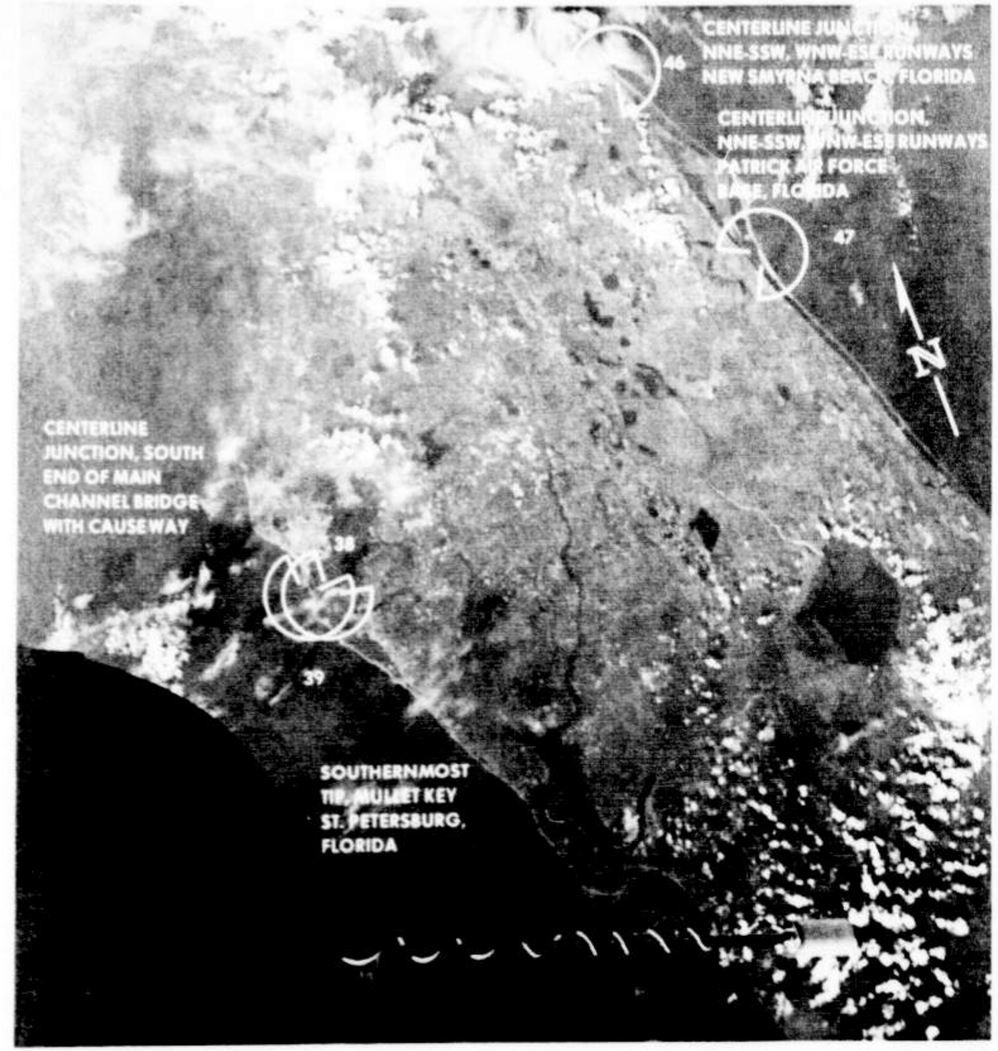
L.M. NO.	± GEODETIC LAT. TO .001"	± GEODETIC LONG. /2 TO .001"	± GEODETIC LONG. TO .001"	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
37	30.077" N	42.790" W	85.581" W	0	±0.02



L.M. NO.	± GEODETIC LAT. TO .001"	± GEODETIC LONG. /2 TO .001"	± GEODETIC LONG. TO .001"	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
38	27.593" N	41.315" W	82.630" W	0	±0.11
39	27.612" N	41.367" W	82.735" W	0	±0.02
46	29.055" N	40.474" W	80.948" W	0	±0.02
47	28.240" N	40.303" W	80.607" W	0	±0.02

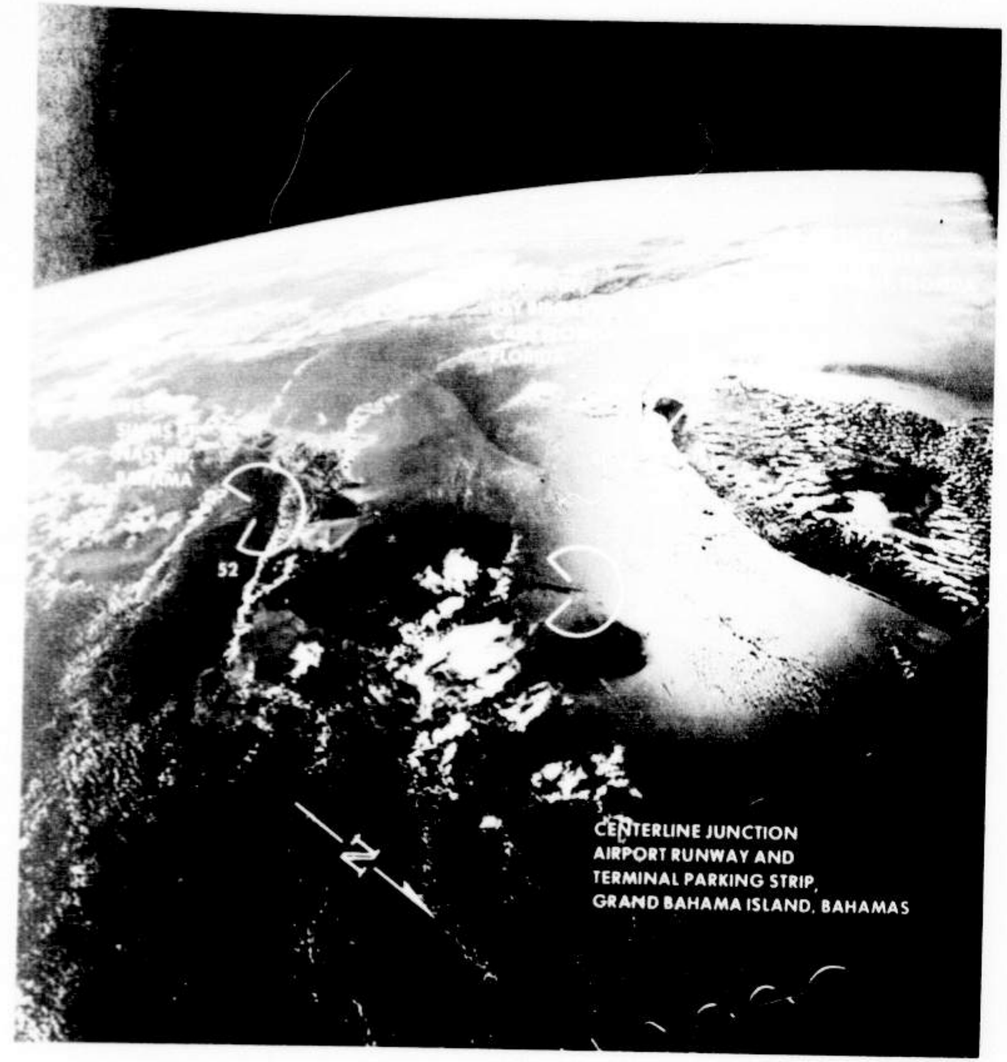


L.M. NO.	± GEODETIC LAT TO .001'	± GEODETIC LONG 2 TO .001'	± GEODETIC LONG TO .001'	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
37	28.[illegible] N	42.790' W	85.581' W	0	±0.02



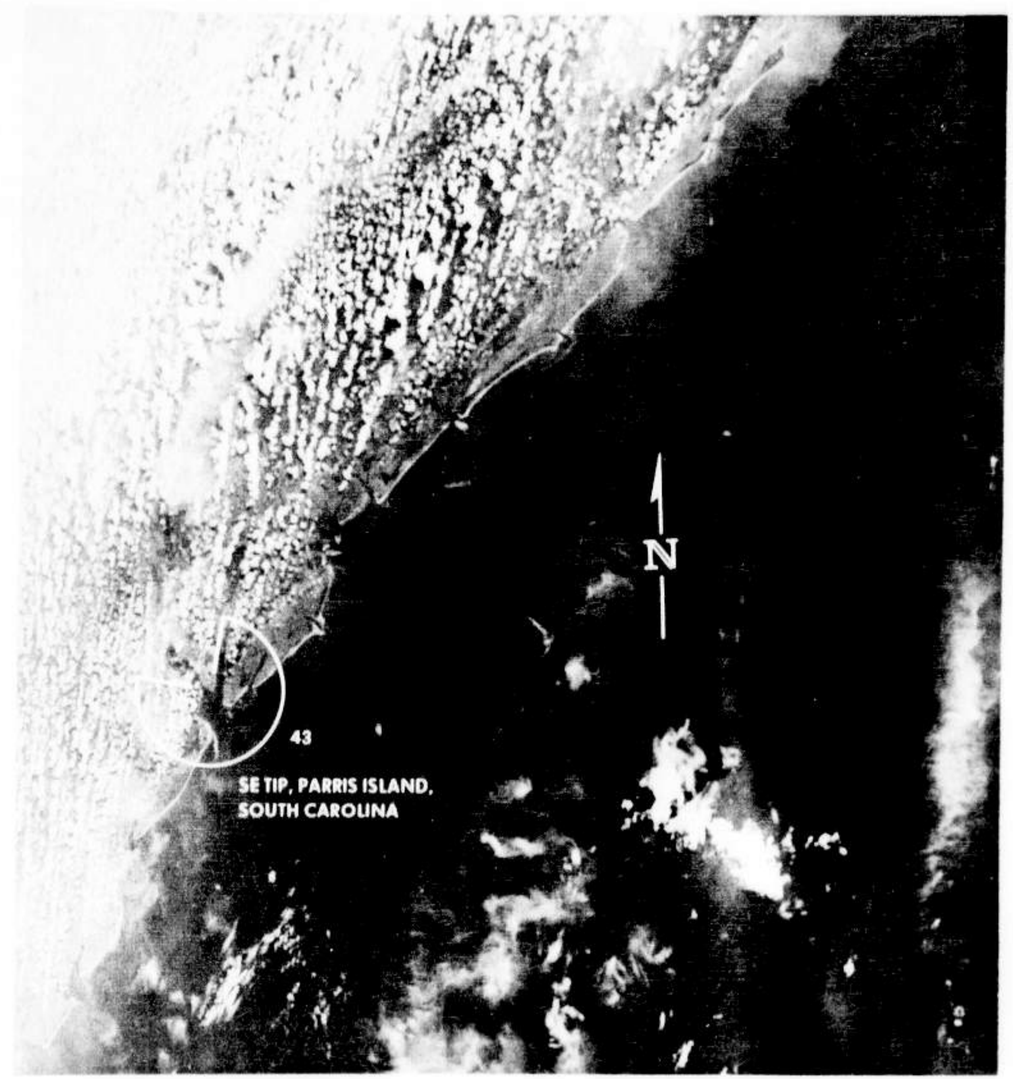
L.M. NO.	± GEODETIC LAT TO .001'	± GEODETIC LONG 2 TO .001'	± GEODETIC LONG TO .001'	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
38	27.593' N	41.315' W	82.630' W	0	±0.11
39	27.612' N	41.367' W	82.735' W	0	±0.02
46	29.055' N	40.474' W	80.948' W	0	±0.02
47	28.240' N	40.303' W	80.607' W	0	±0.02

L.M. NO.	± GEODETIC LAT TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
40	24.548° N	40.905° W	81.811° W	0	±0.02

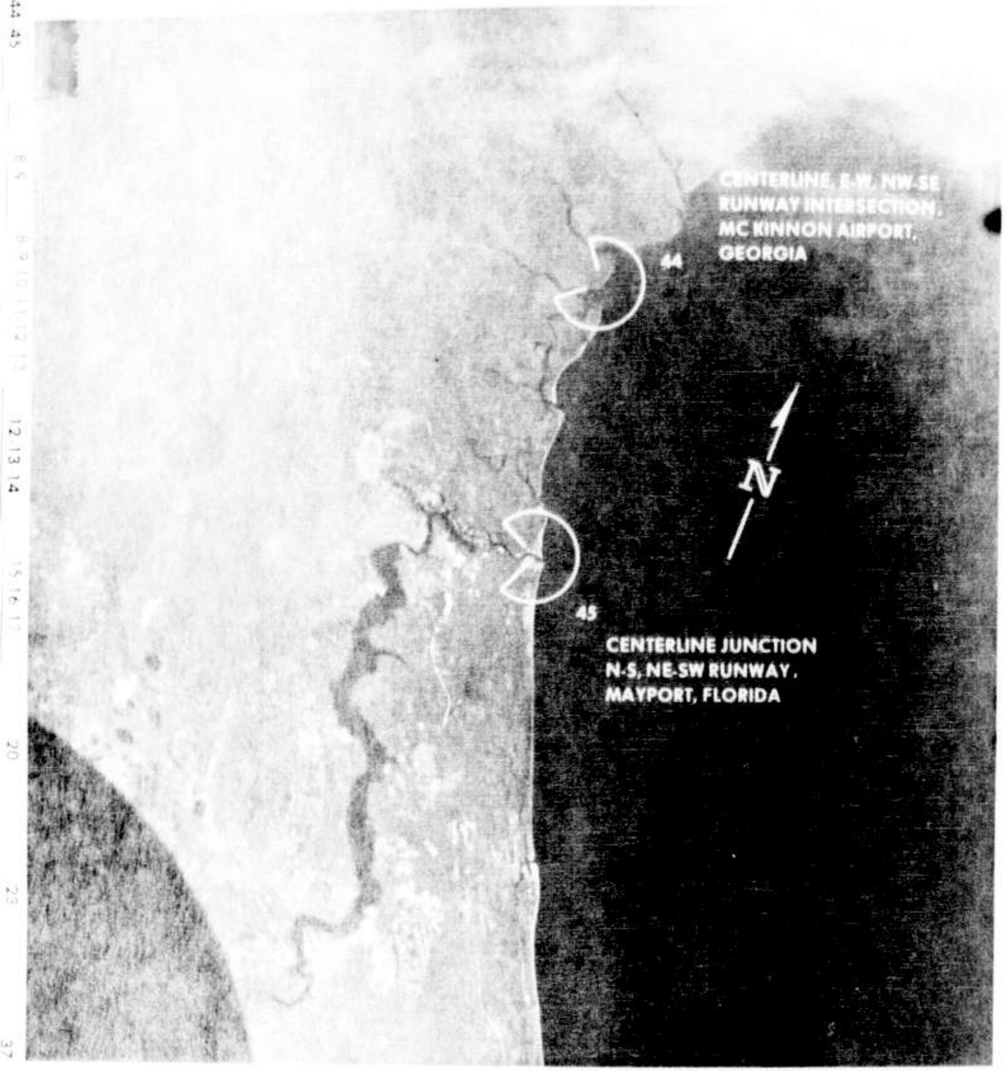


L.M. NO.	± GEODETIC LAT TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
40	24.548° N	40.905° W	81.811° W	0	±0.02
48	25.666° N	40.079° W	80.158° W	0	±0.02
49	26.693° N	39.488° W	78.977° W	0	±0.03
52	25.030° N	38.777° W	77.554° W	0	±0.11

L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG. 2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
41	34.[illegible] N	[illegible].267° W	76.534° W	0	±0.02
42	31.[illegible] N	± [illegible].981° W	77.962° W	0	±0.02



L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG. 2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
43	32.298° N	40.333° W	80.667° W	0	±0.02



		+ GEODETIC LONG TO .001	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
[illegible]	[illegible] W	81.395 W	0	±0.02
[illegible]	[illegible] N	81.419 W	0	±0.02

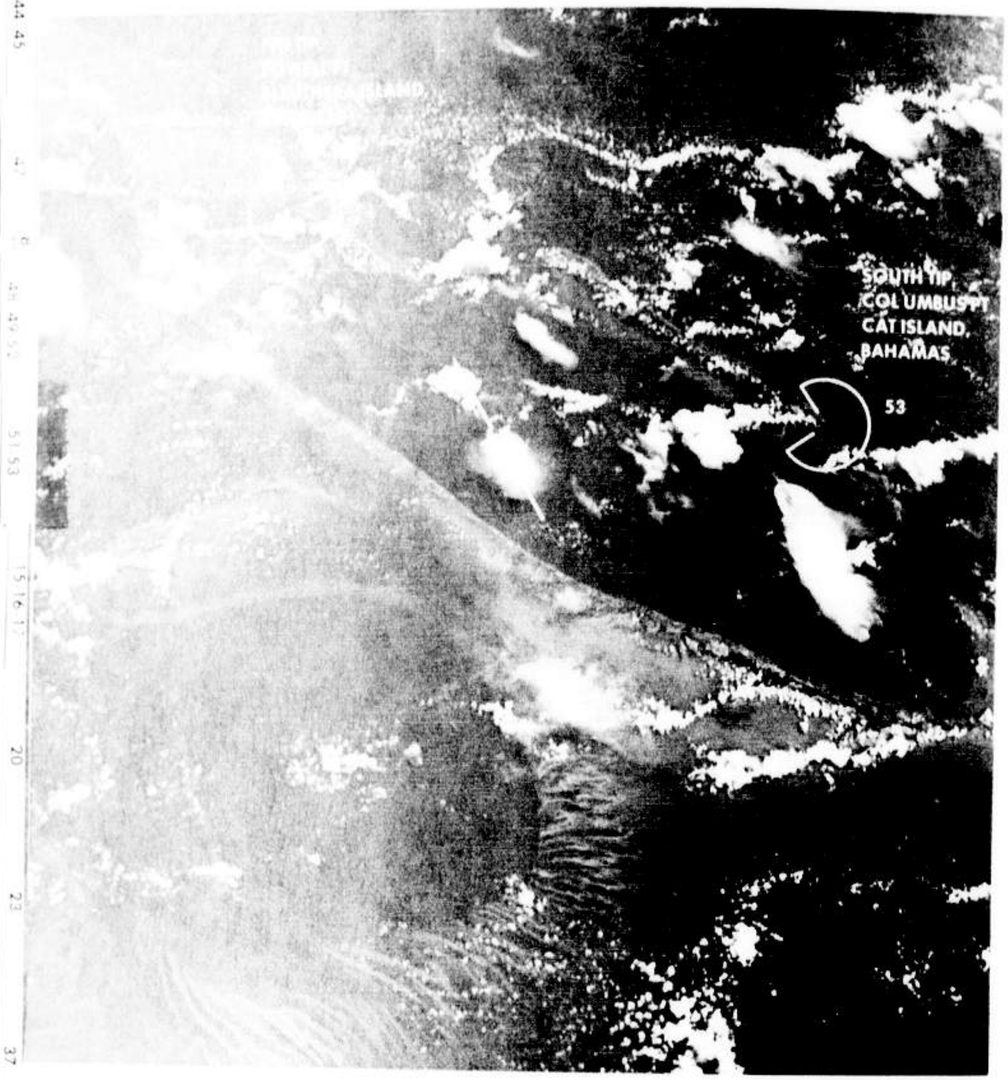
L. M. NO.	+ GEODETIC LAT TO .001	+ GEODETIC LONG 2 TO .001	+ GEODETIC LONG TO .001	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
46	29.055 N	40.474 W	80.948 W	0	±0.02

L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
[illegible]	[illegible]	[illegible]	80.607° W	[illegible] 0	±0.02

L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
48	25.666° N	40.079° W	80.158° W	0	±0.02

L M NO	+ GEODETIC LAT TO .001	+ GEODETIC LONG TO .001	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
[illegible]	[illegible] N	[illegible] W	80.156 W	0	±0.02
[illegible]	[illegible] N	[illegible] W	78.977 W	0	±0.03
52	25.030 N	38.777 W	77.554 W	0	±0.11

L M NO	+ GEODETIC LAT TO .001	+ GEODETIC LONG .2 TO .001	+ GEODETIC LONG TO .001	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
52	25.030 N	38.777 W	77.554 W	0	±0.11

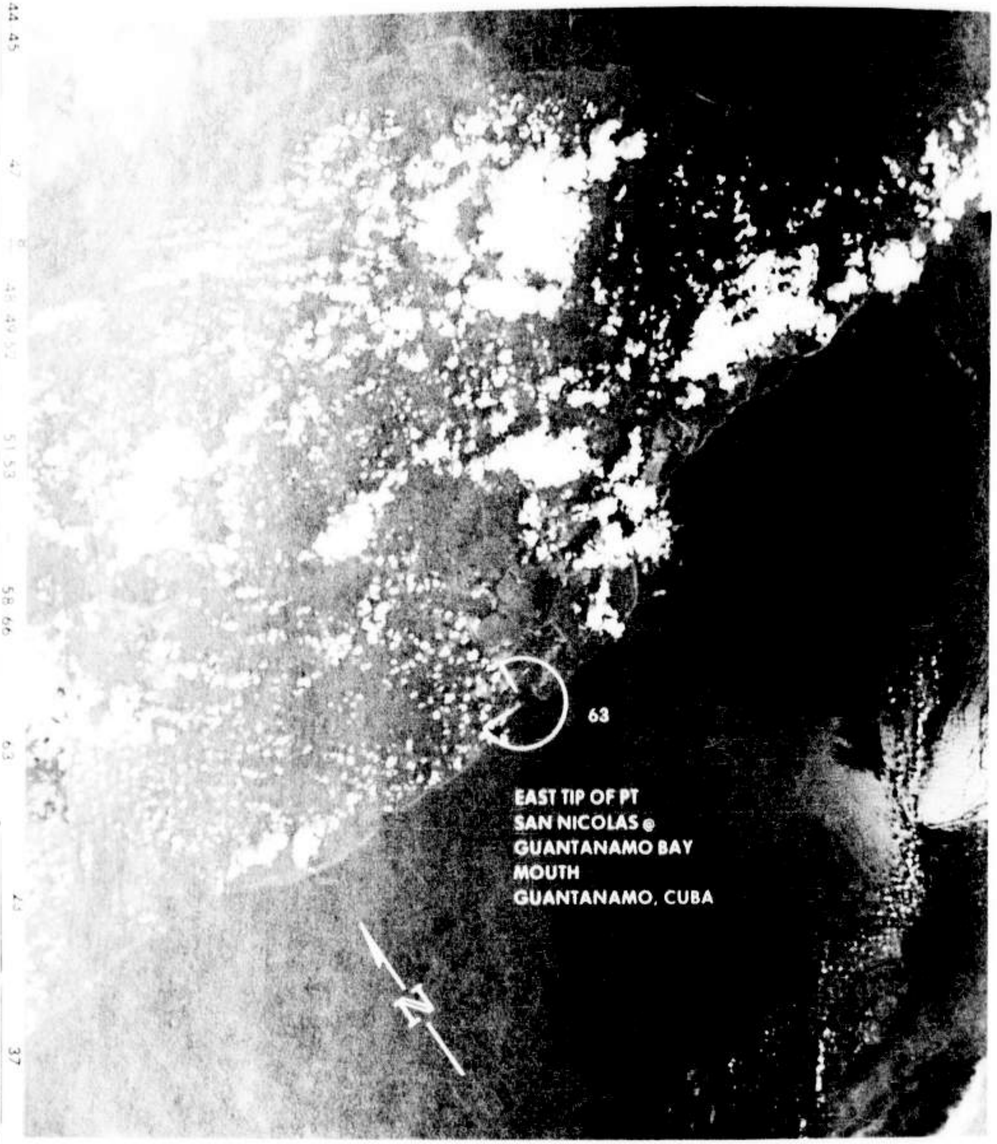


L.M. NO	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
53	24.44[illegible]° N	[illegible]2° W	76.345° W	0	±0.04
52	24.134° N	[illegible]06° W	75.272° W	0	±0.58

L.M. NO	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
54	22.845° N	37.430° W	74.861° W	0	±0.58
55	22.121° N	37.165° W	74.330° W	0	±0.34
56	22.365° N	36.585° W	73.171° W	0.01	±0.03
57	21.108° N	36.837° W	73.675° W	0	±0.29

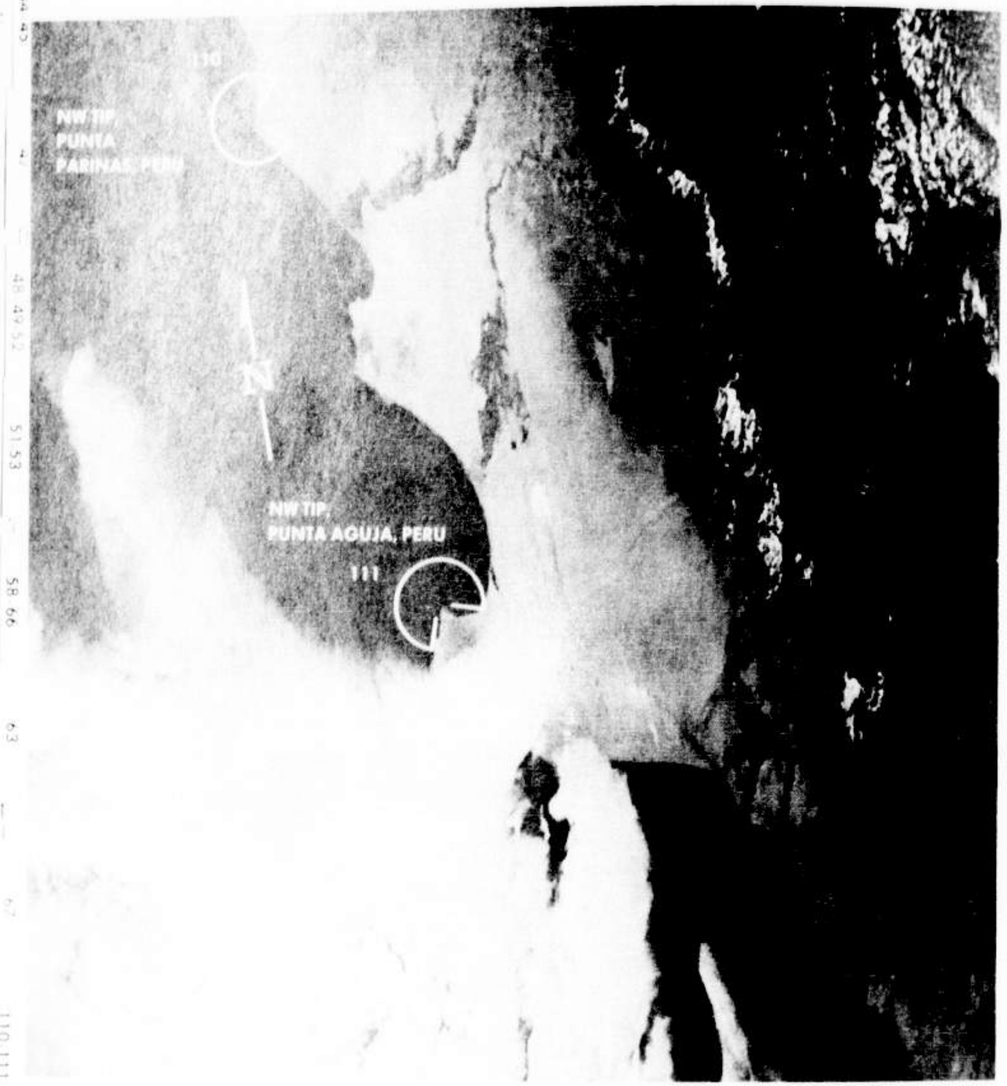
L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG. TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
62	19.420° N	69.371° W	71.143° W	0.01	±0.02
65	19.350° N	69.221° W	69.222° W	0.01	±0.21

L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG. TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
60	18.354° N	39.172° W	78.345° W	0	±0.03
61	18.266° N	39.184° W	78.368° W	0	±0.03



L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
63	[illegible] N	37.565° W	75.190° W	0	±0.03

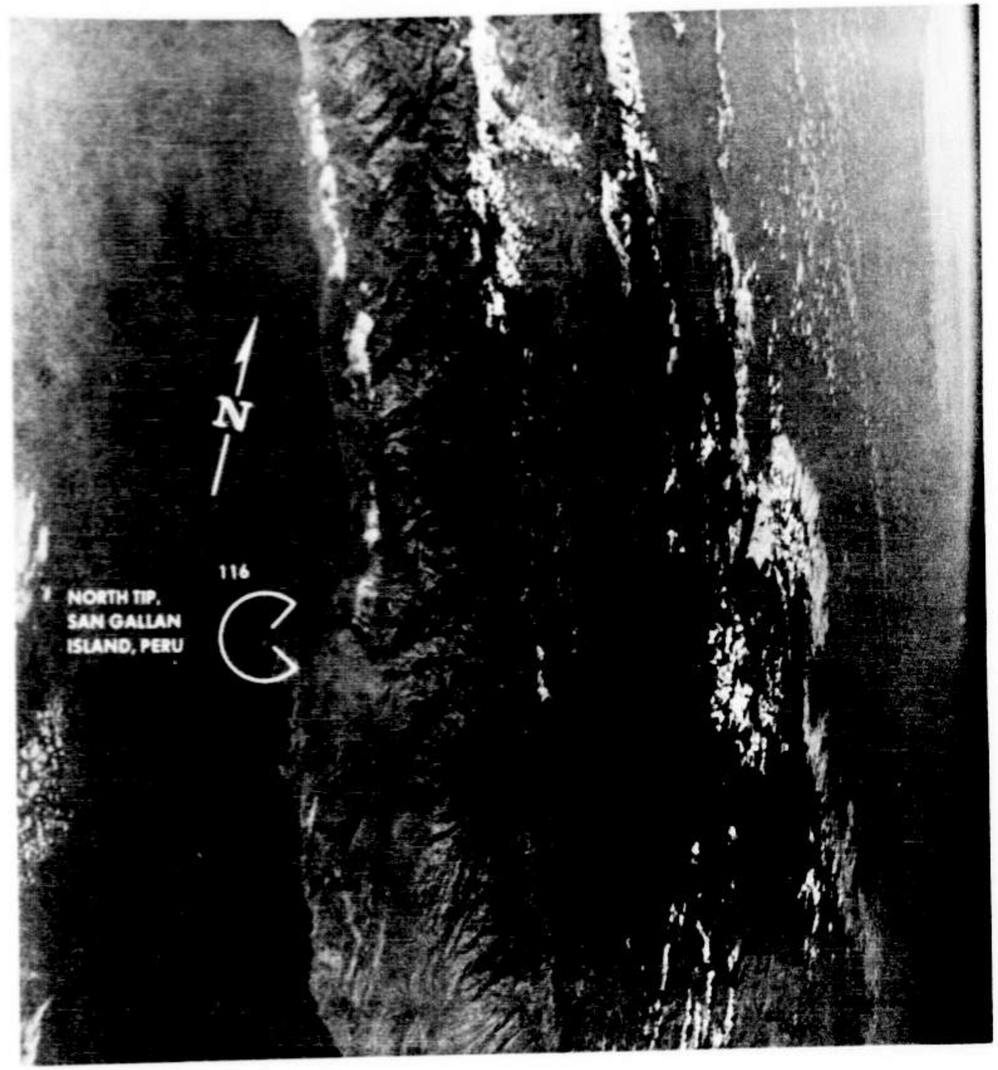
L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
65	20.065° N	36.485° W	72.971° W	0.01	±0.03



L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
110	4.668° S	40.664° W	81.328° W	0	±0.04
111	5.609° S	40.554° W	81.107° W	0	±0.39

L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
112	8.073° S	39.552° W	79.105° W	+0.02	±0.12
113	9.272° S	39.265° W	78.531° W	0	±0.22

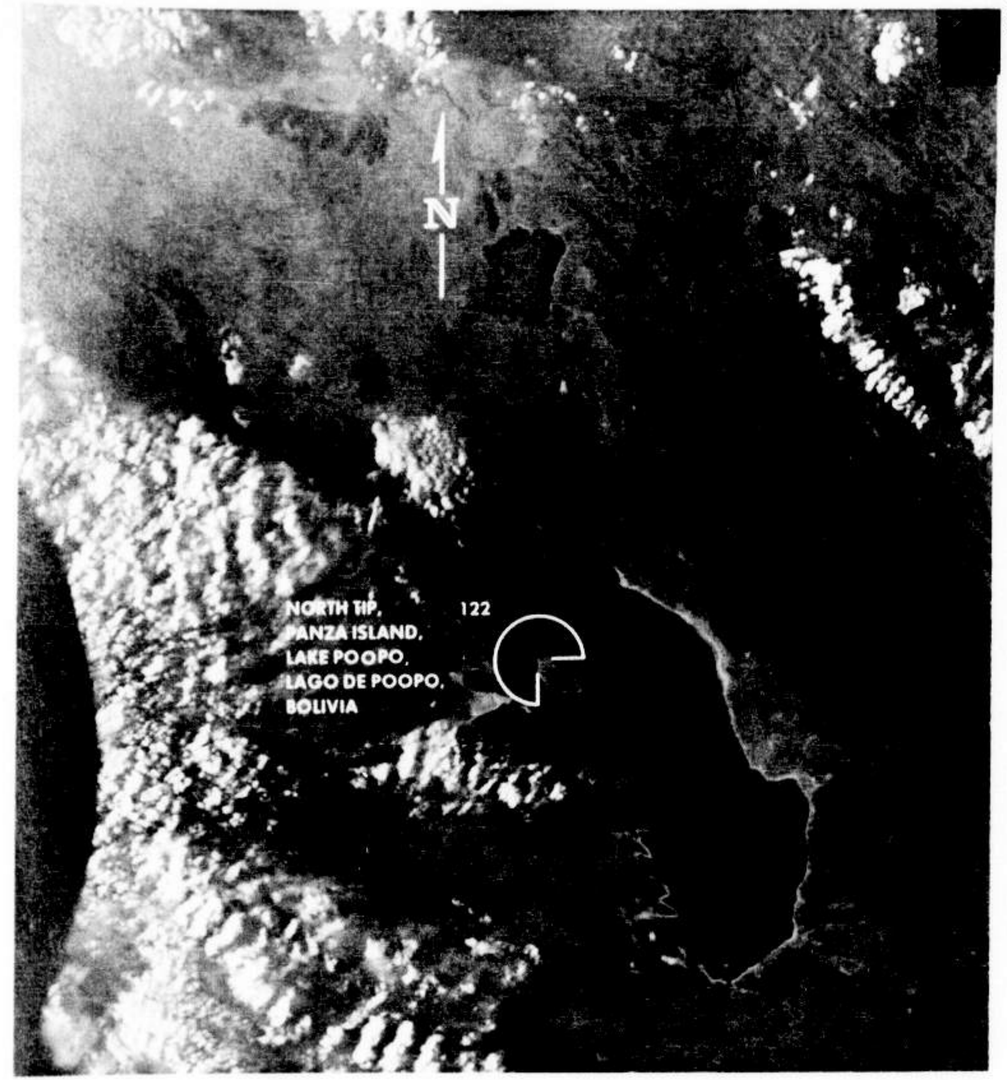
L.M. NO	± GEODETIC LAT TO .001°	± GEODETIC LONG /2 TO .001°	± GEODETIC LONG TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
115	12.002° S	38.584° W	77.168° W	0	±0.04



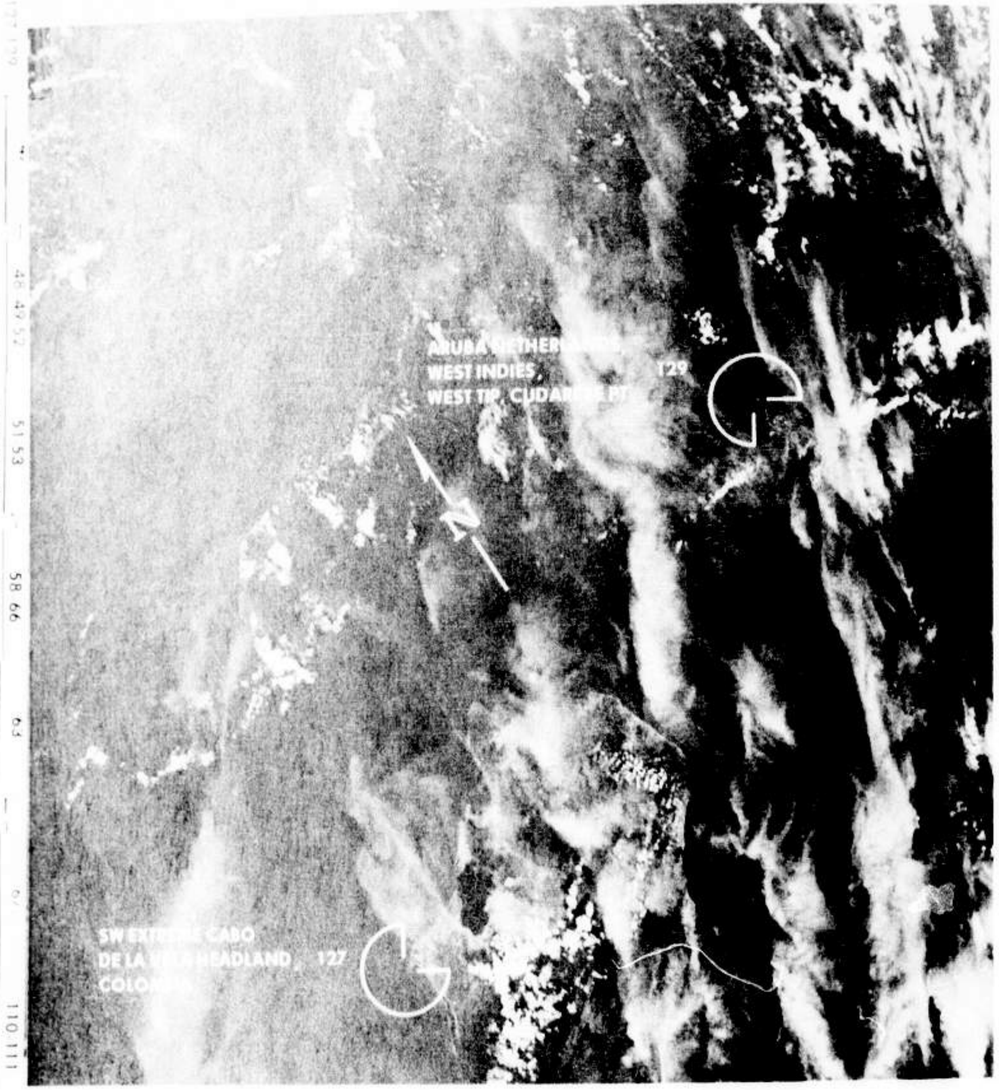
7 NORTH TIP, SAN GALLAN ISLAND, PERU

L.M. NO	± GEODETIC LAT TO .001°	± GEODETIC LONG /2 TO .001°	± GEODETIC LONG TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
116	13.824° S	38.230° W	76.460° W	0	±0.22

L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
121	17.709° S	35.691° W	71.382° W	0	±0.05
122	18.470° S	34.479° W	68.958° W	+2.05	±0.03



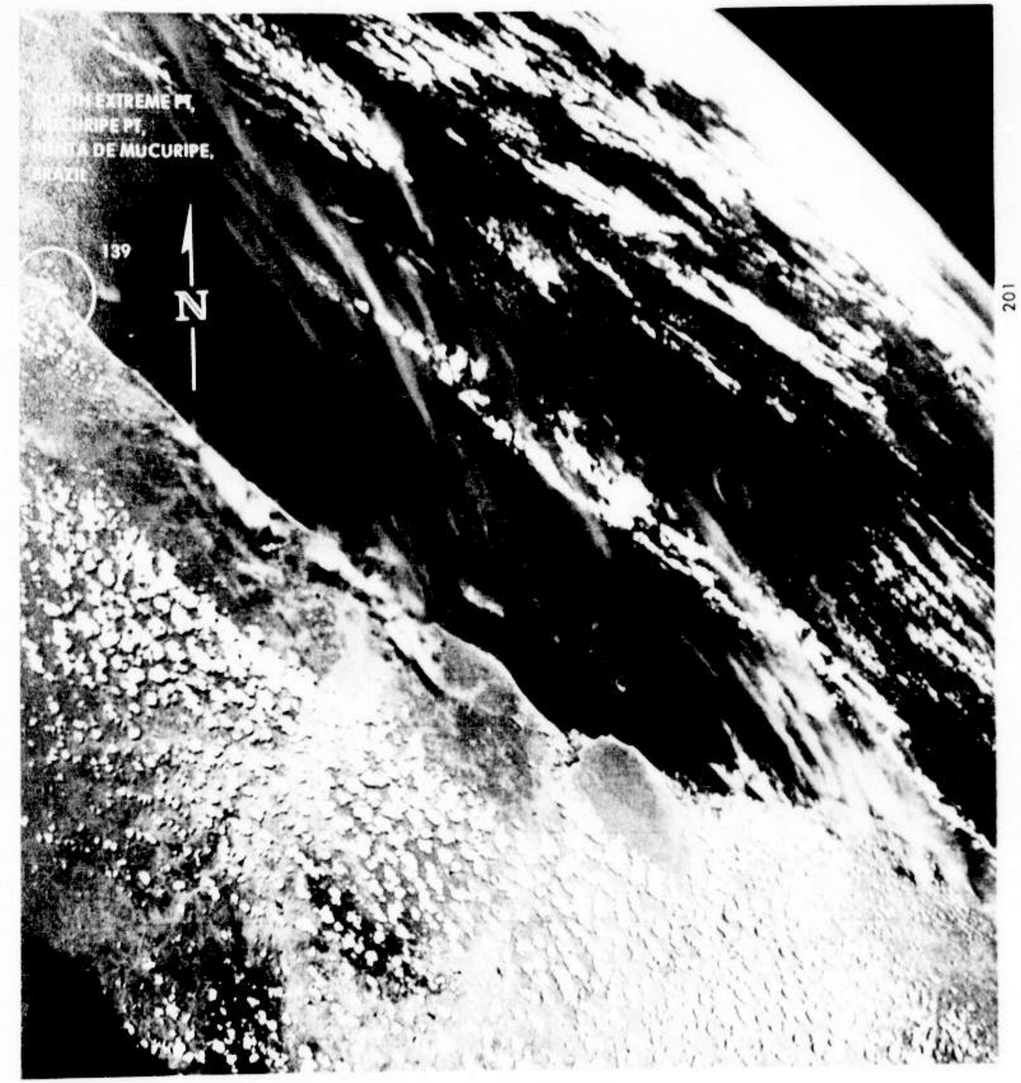
L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
122	18.709° S	33.601° W	67.203° W	+1.99	±0.63



L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
127	12.207° N	36.090° W	72.180° W	+0.01	±0.02
129	12.617° N	35.030° W	70.060° W	+0.01	±0.02

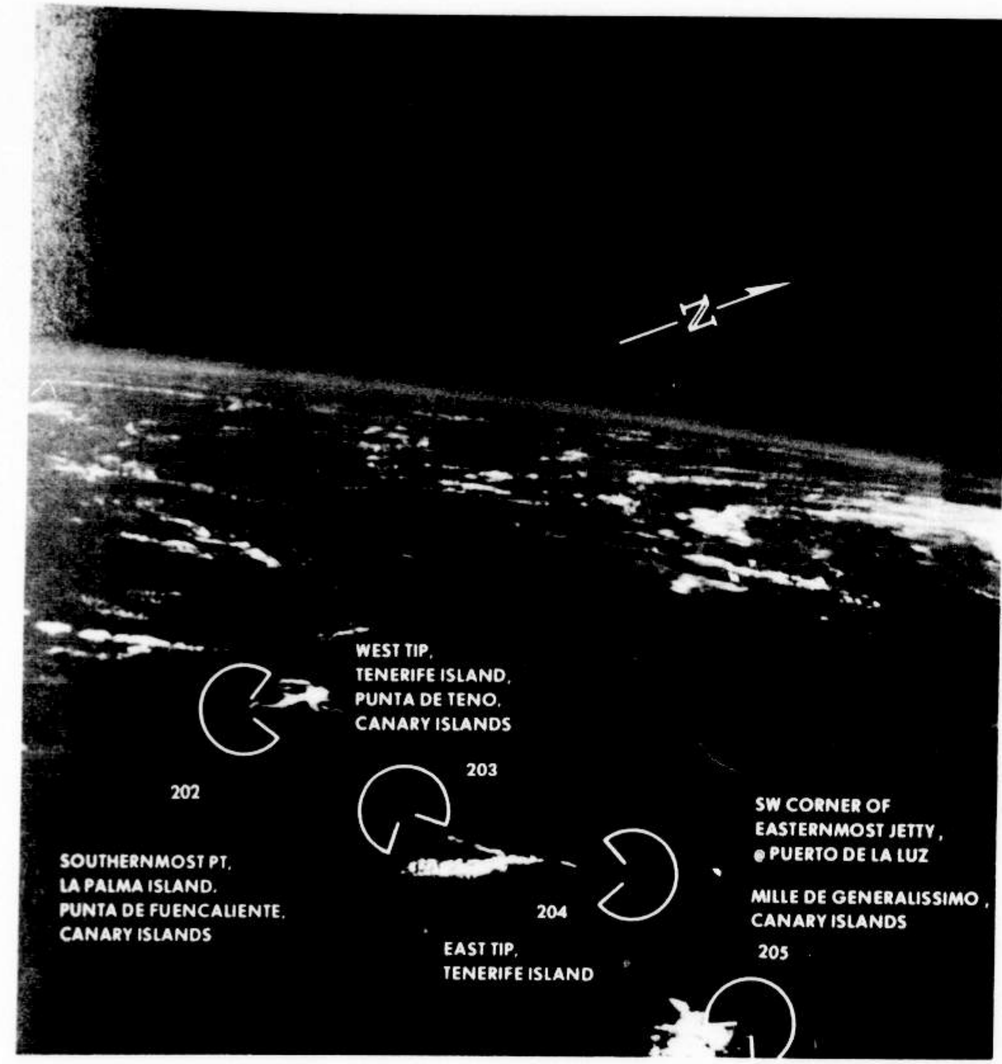
L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
135	6.946° N	29.167° W	58.335° W	0.01	+0.19

L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
138	2.587° S	22.118° W	44.236° W	+0.03	±0.22



L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
139	3.699° S	19.241° W	38.482° W	0	±0.22

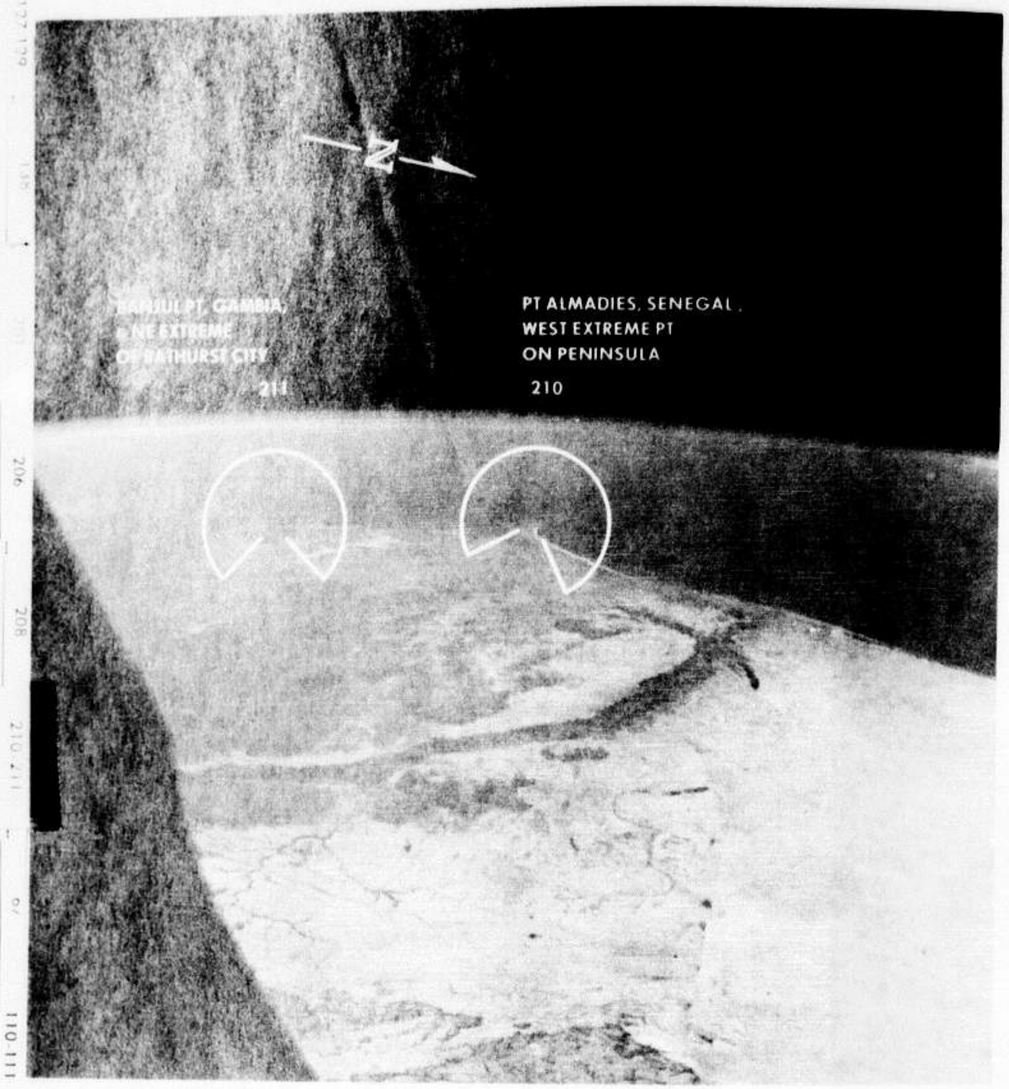
L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
201	30.612° N	4.945° W	9.891° W	0	±0.14



L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
202	28.447° N	8.916° W	17.833° W	0	±0.23
203	28.334° N	8.457° W	16.914° W	0	±0.12
204	28.549° N	8.063° W	16.126° W	0	±0.12
205	28.127° N	7.708° W	15.416° W	0	±0.12

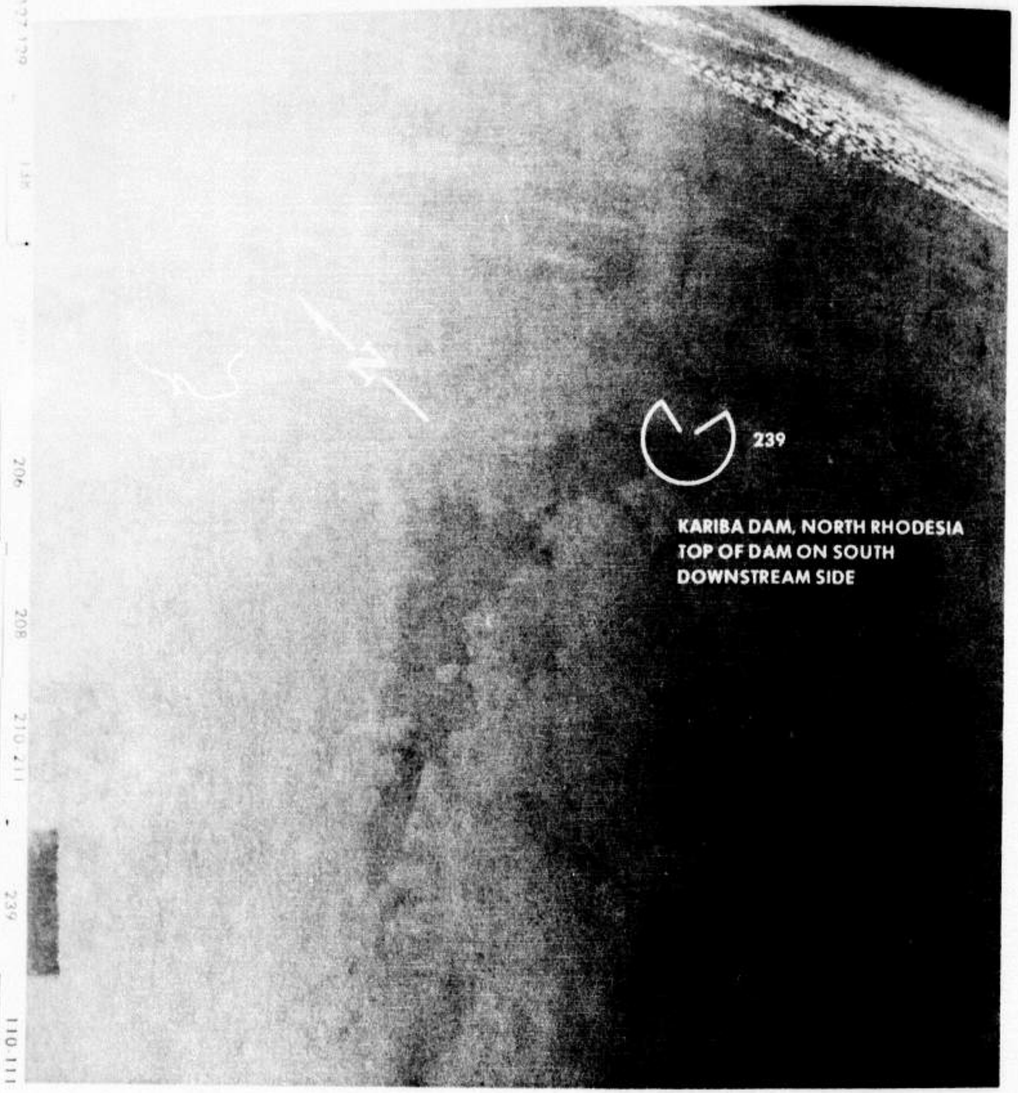
L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
208	20.770° N	8.576° W	17.052° W	0	±0.18

L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
209	14.947° N	12.176° W	24.353° W	+1.53	±0.25

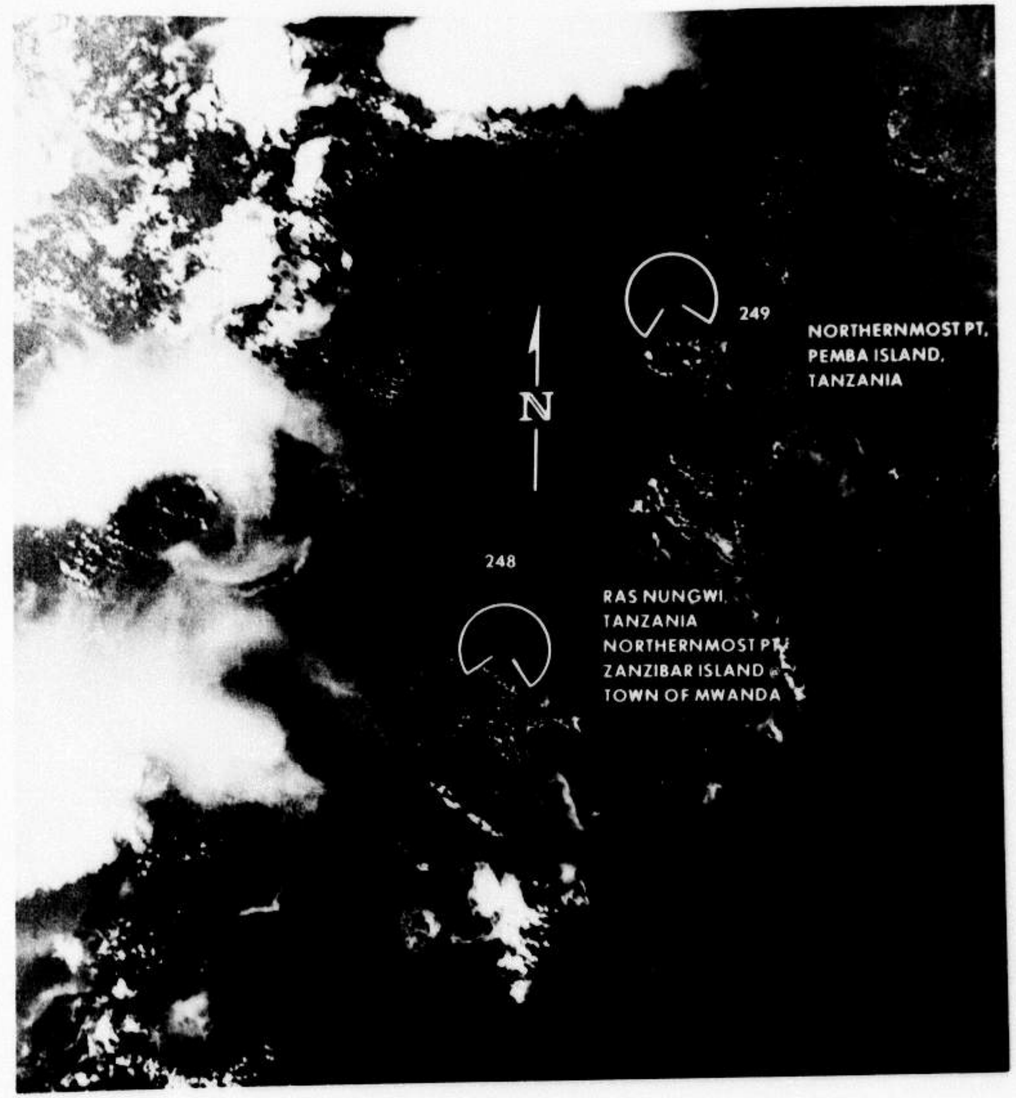


L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
210	14.738° N	8.766° W	17.533° W	0	±0.12
211	13.456° N	8.286° W	16.573° W	0	±0.14

L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
227	28.637° S	8.230° E	16.460° E	0	±0.17

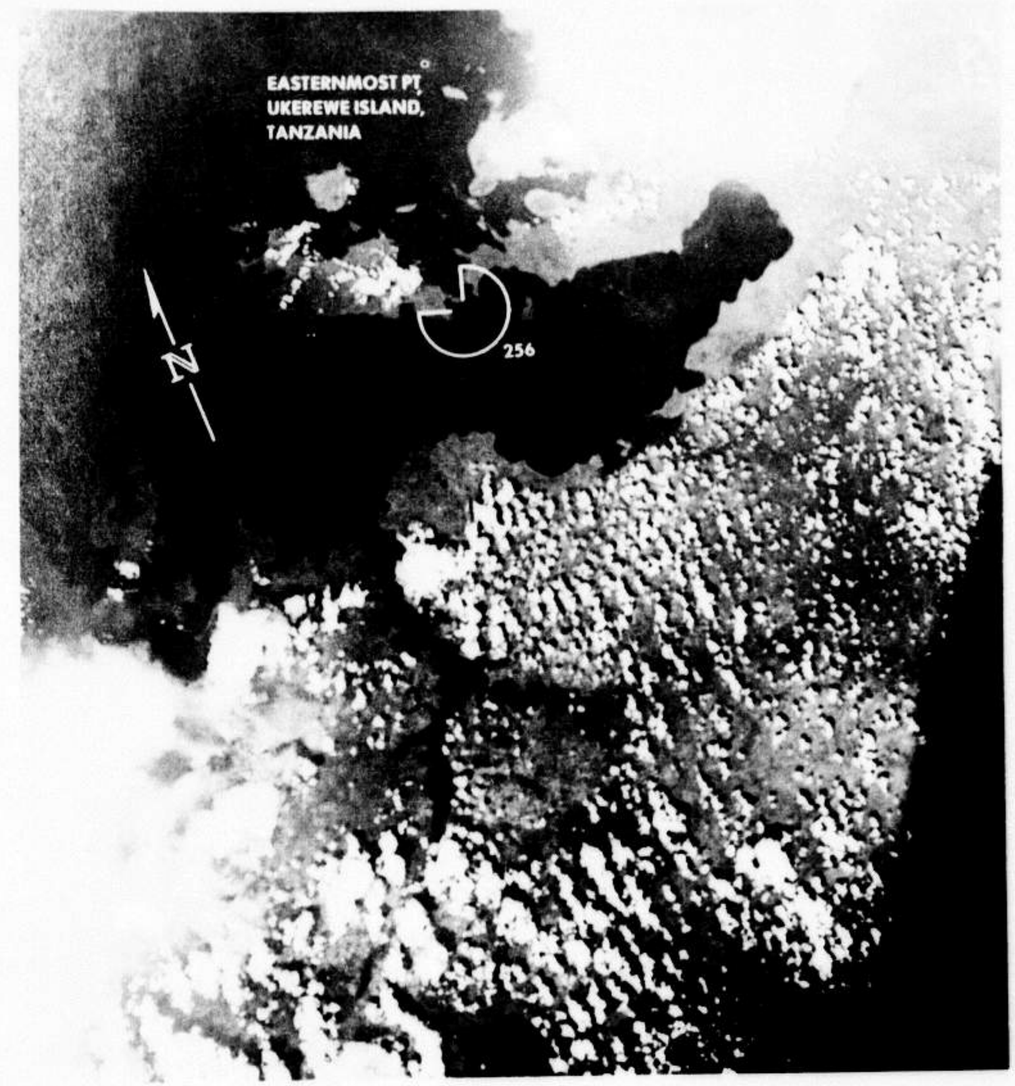


L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
239	16.557° S	14.381° E	28.763° E	+0.26	±0.03



L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
248	5.723° S	19.741° E	39.483° E	0	±0.17
249	4.864° S	19.839° E	39.678° E	0	±0.15

L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
253	9.259° S	14.194° E	28.388° E	+0.49	±0.18
254	8.465° S	14.443° E	28.886° E	+0.49	±0.14
255	8.167° S	14.748° E	29.497° E	+0.42	±0.31



L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
256	2.115° S	16.598° E	33.197° E	+0.62	±0.59

L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
257	4.003° S	17.152° E	34.306° E	+0.62	±0.04

L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
259	4.070° N	18.024° E	36.048° E	+0.21	±0.18

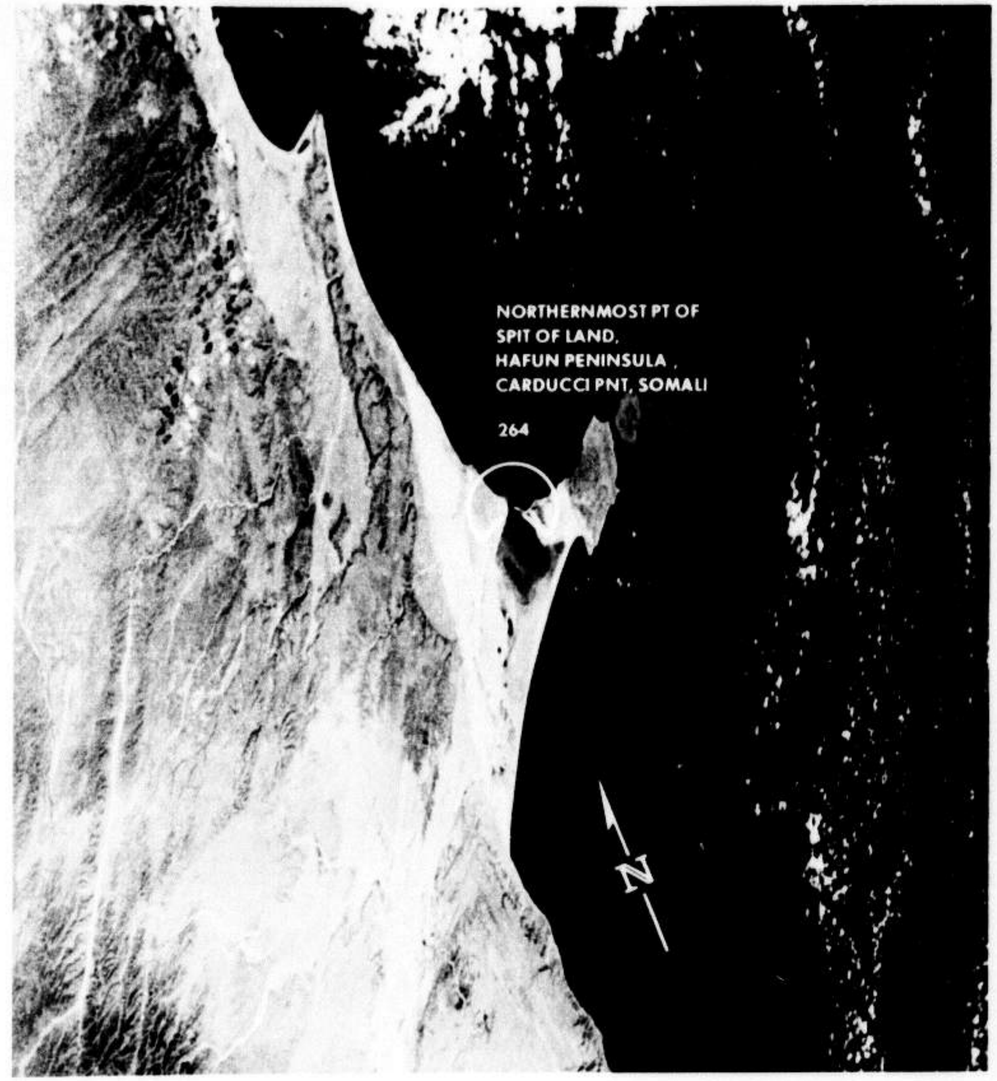
NORTHERNMOST
LARGEST ISLAND IN LAKE RUDOLF
GUDDU, ETHIOPIA

L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
260	[illegible] N	[illegible] E	38.864° E	+0.88	±0.45

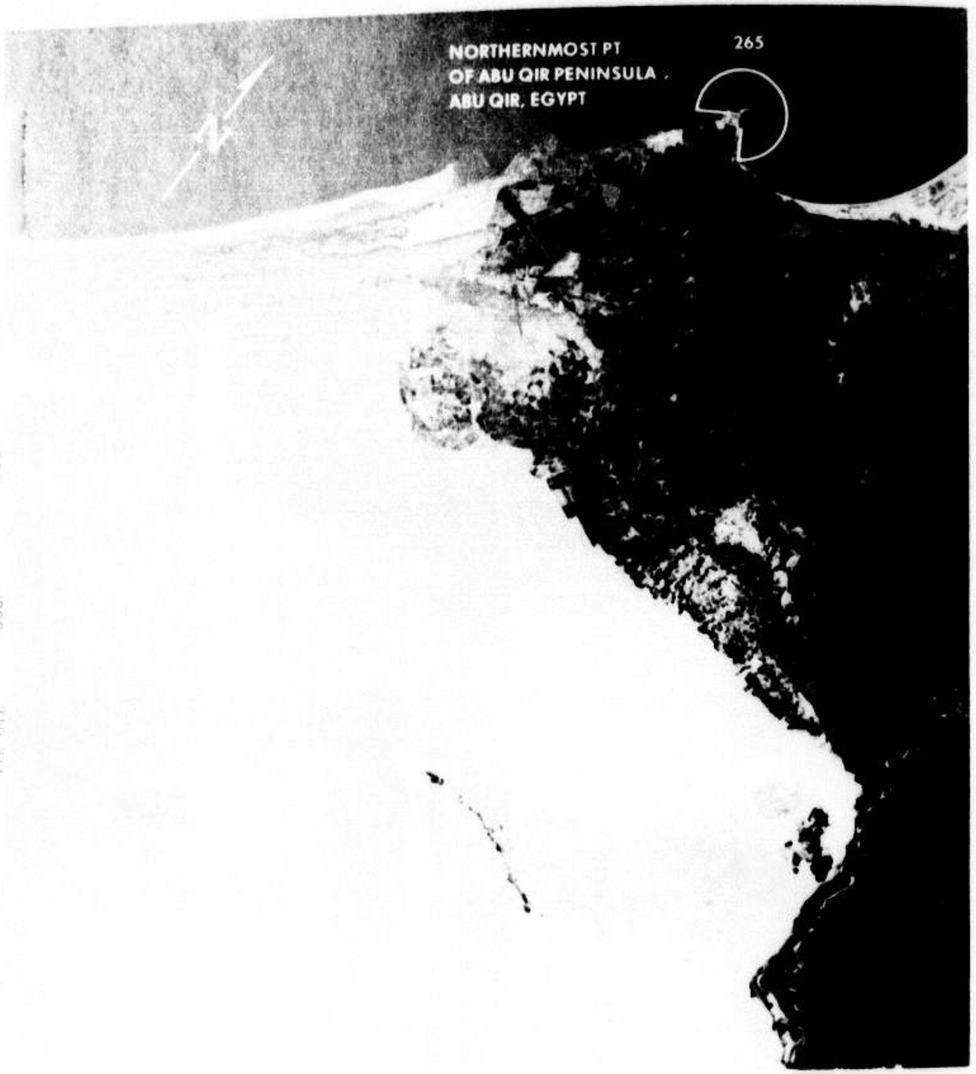
SOUTH POINT OF
DAG ISLAND, LAKE TANA,
ETHIOPIA

L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
262	11.868° N	18.672° E	37.344° E	+0.99	+0.35

L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG. 2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
263	15.615° N	16.247° E	32.495° E	+0.20	±0.14



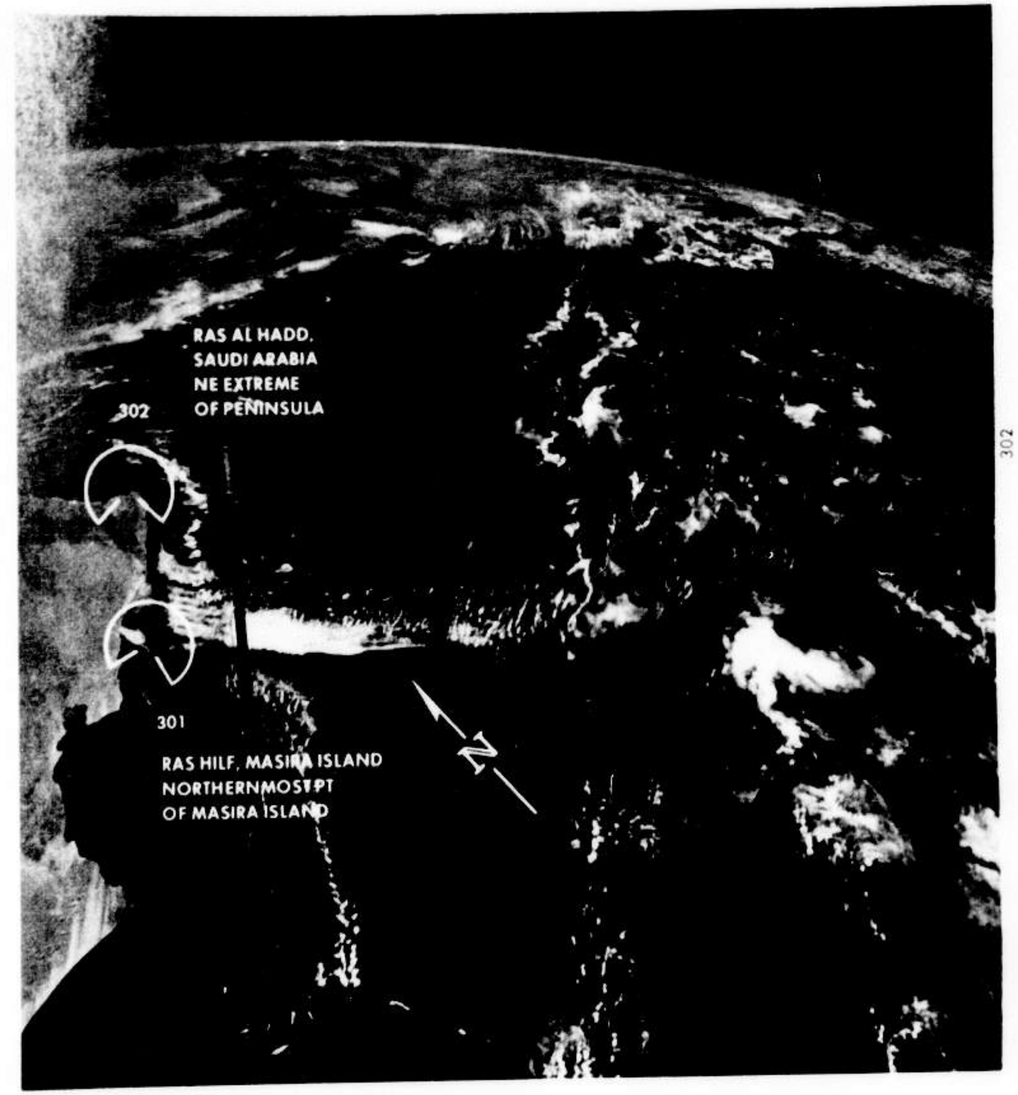
L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG. 2 TO .001°	± GEODETIC LONG TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
264	10.538° N	25.594° E	51.188° E	0	±0.20



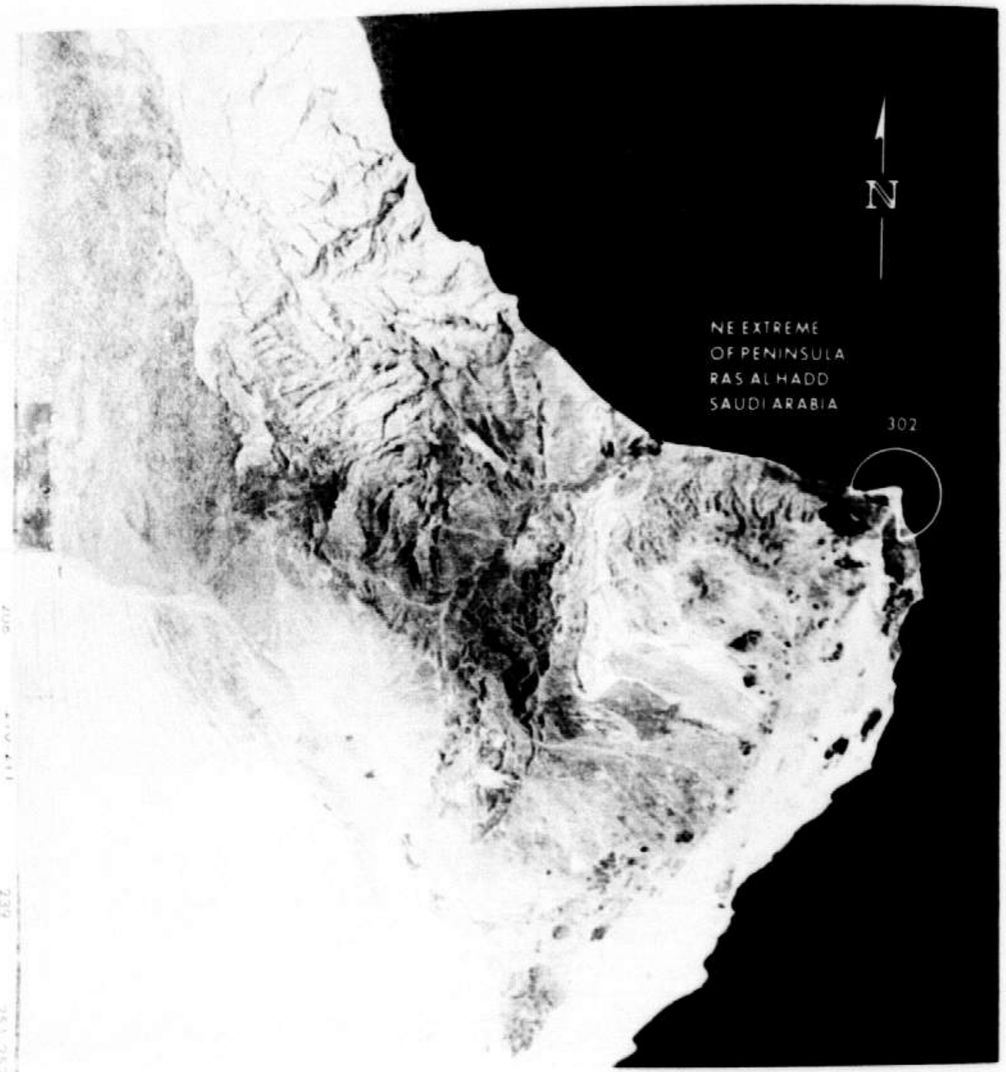
L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
265	31.330° N	15.035° E	30.070° E	+0.01	±0.03

L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
266	30.261° N	16.251° E	32.502° E	+0.01	±0.02

L.M. NO	+ GEODETIC LAT TO .001°	+ GEODETIC LONG 2 TO .001°	+ GEODETIC LONG TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
266	30.261° N	16.251° E	32.502° E	+0.01	±0.02
267	31.350° N	17.750° E	35.500° E	-0.20	±0.03

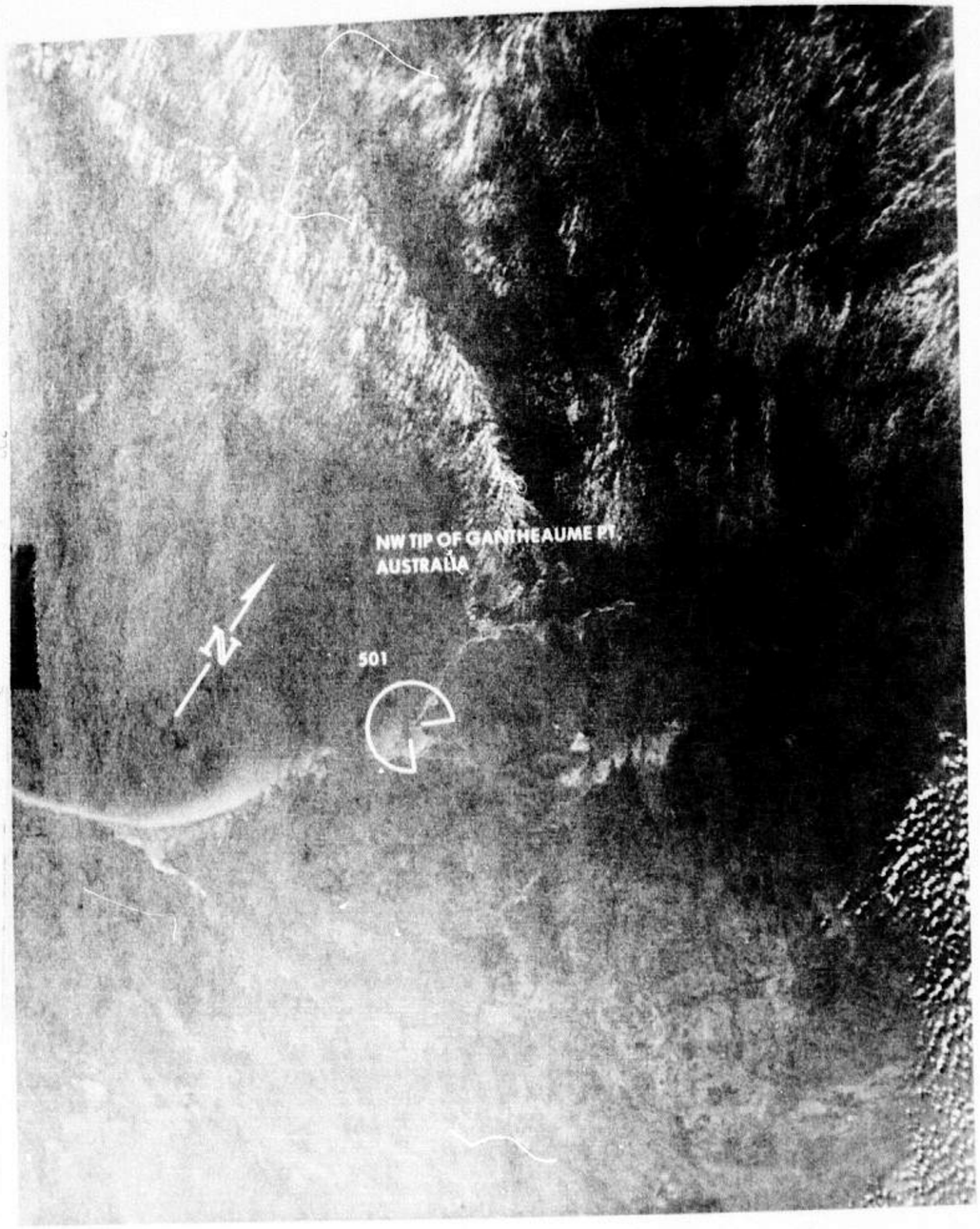


L.M. NO	+ GEODETIC LAT TO .001°	+ GEODETIC LONG 2 TO .001°	+ GEODETIC LONG TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
301	20.694° N	29.444° E	58.888° E	+0.01	±0.59
302	22.534° N	29.401° E	59.802° E	+0.01	±0.25

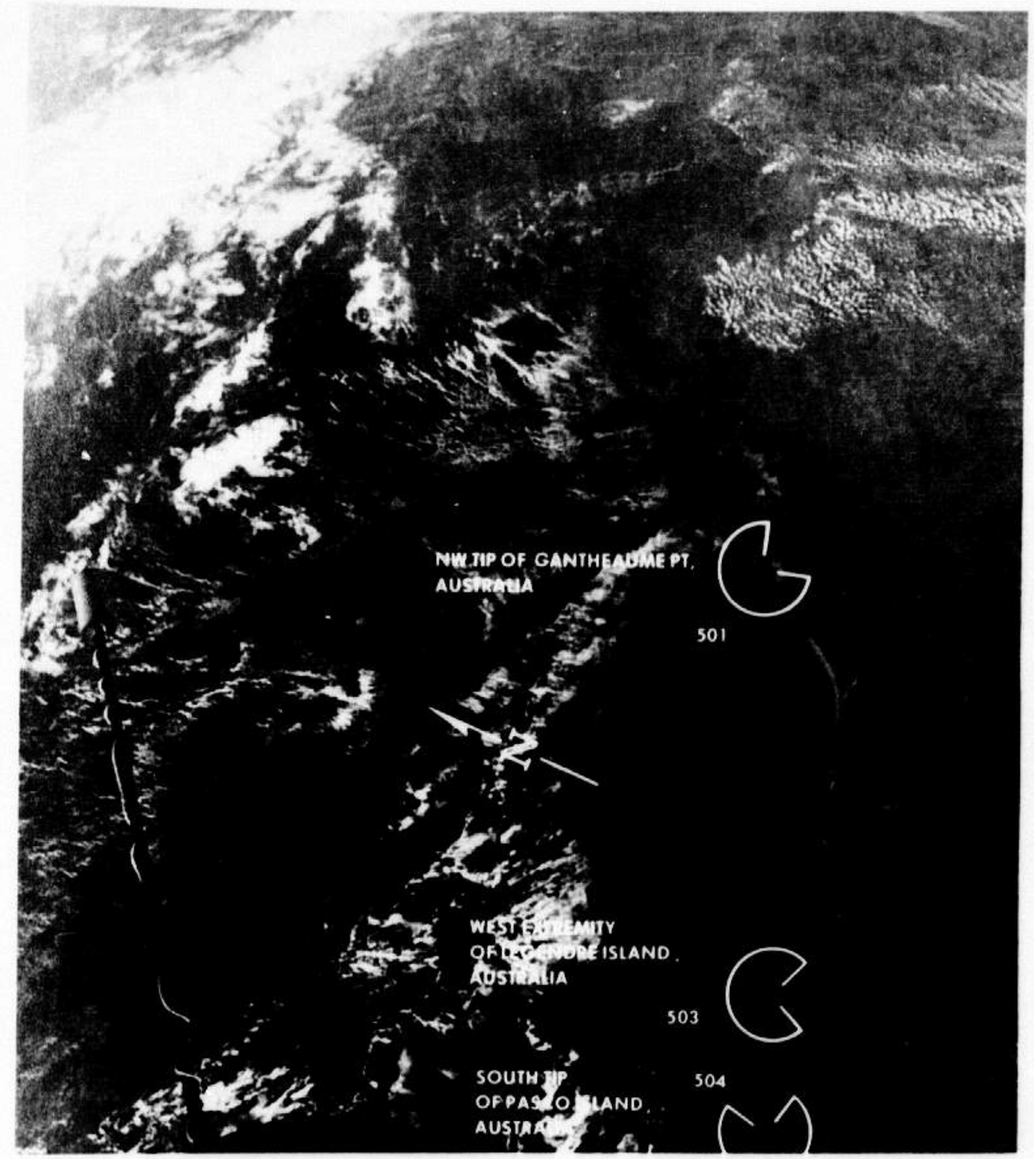


L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
302	22.514° N	29.401° E	59.802° E	-0.01	±0.25

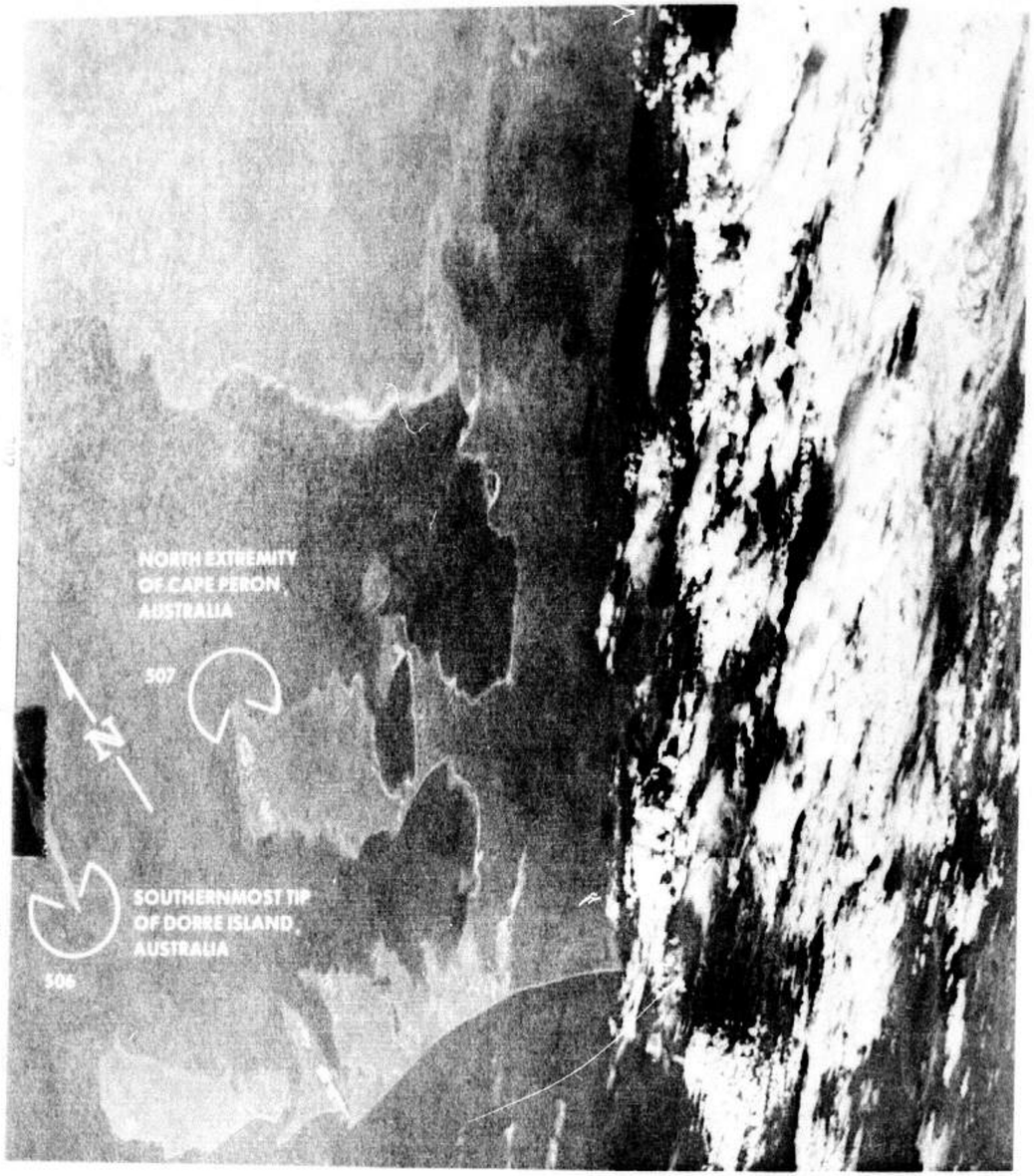
L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
428	16.029° N	60.995° E	121.990° E	0	±0.14



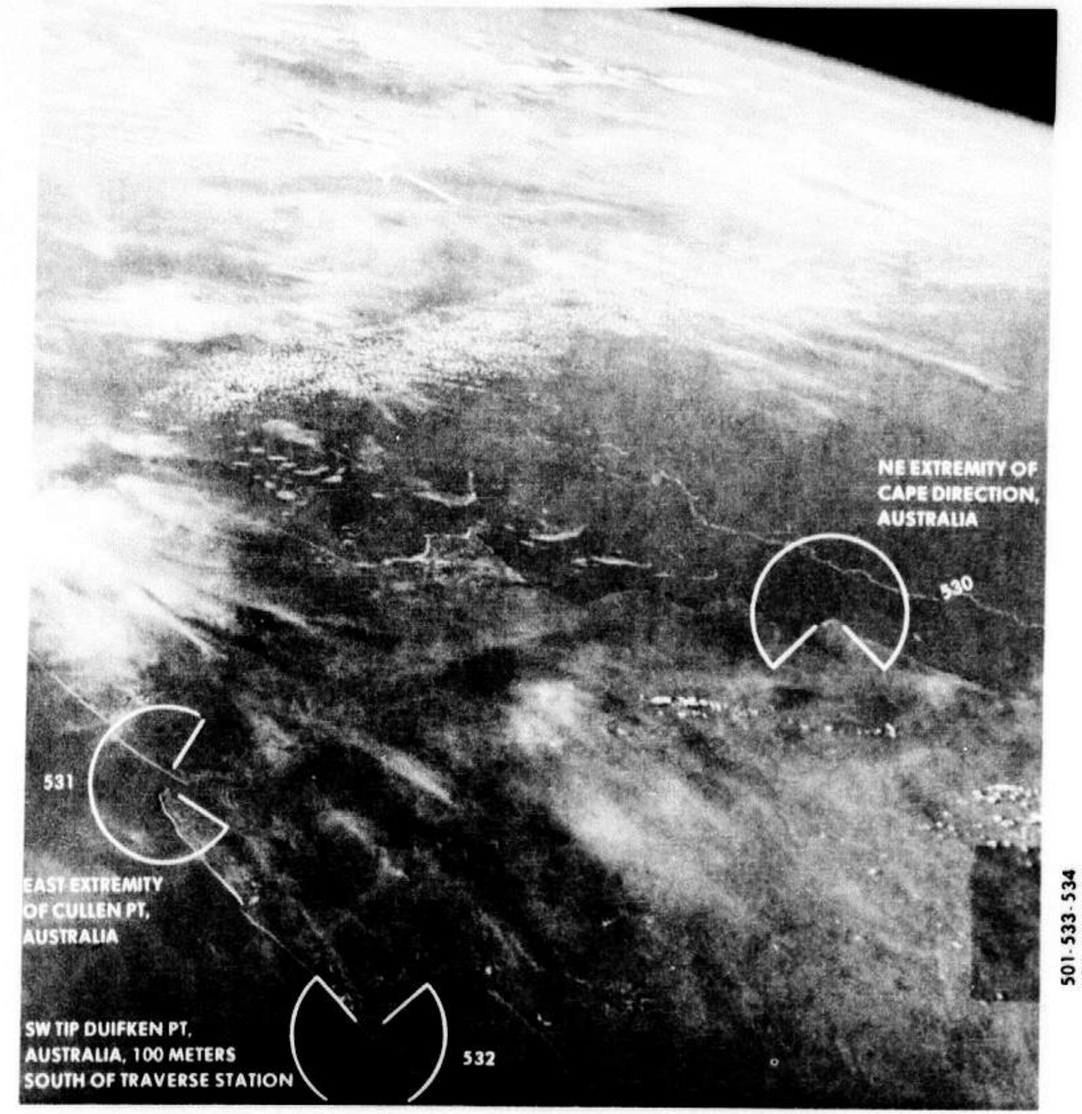
L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
501	17.975° S	61.087° E	122.174° E	0	±0.15



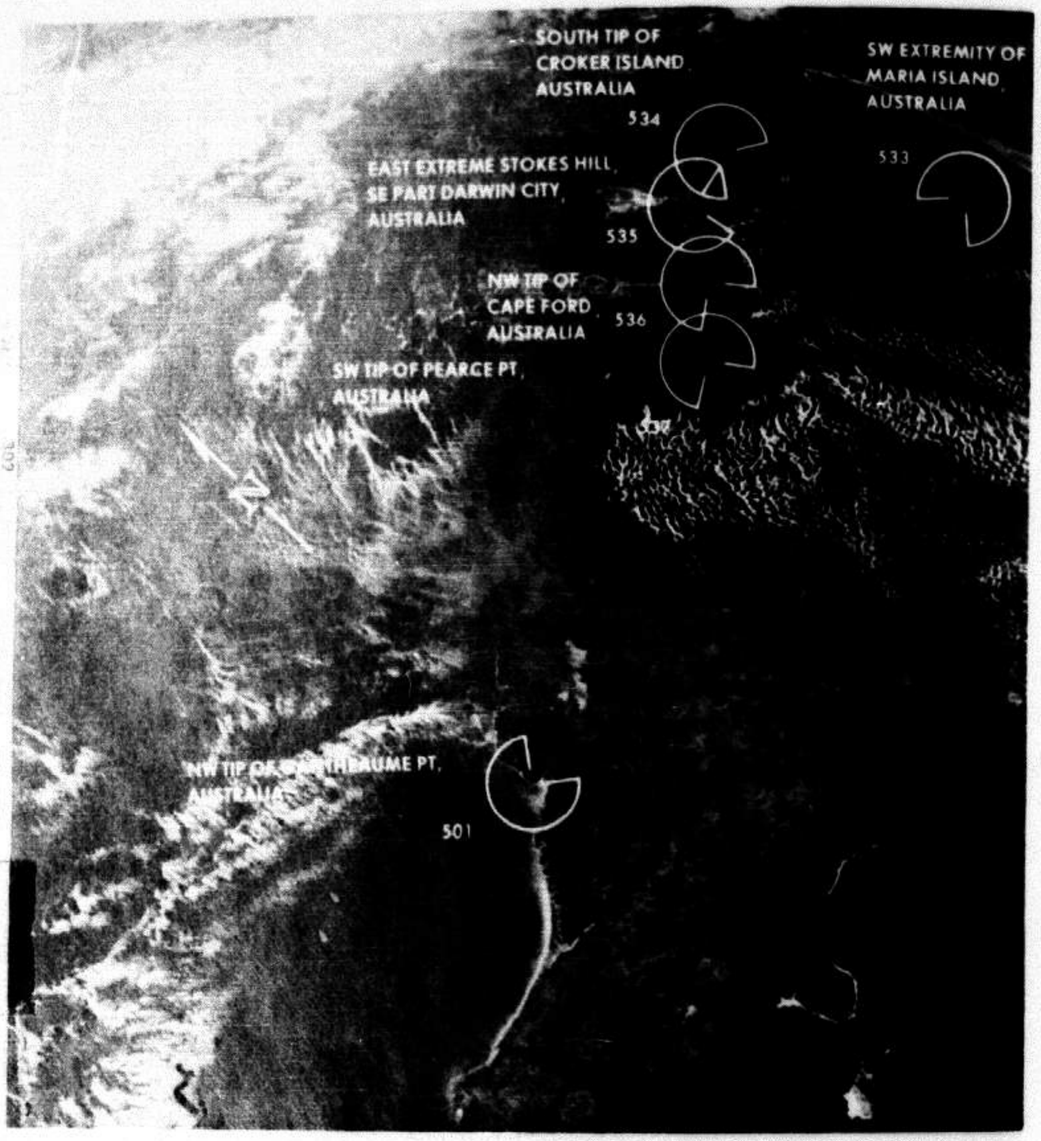
L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
501	17.975° S	61.087° E	122.174° E	0	±0.15
503	20.352° S	58.418° E	116.836° E	0	±0.29
504	20.990° S	57.678° E	115.356° E	0	±0.29



L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
506	25.296° S	56.537° E	113.074° E	0	±0.29
507	25.525° S	56.759° E	113.517° E	0	±0.29



L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
530	12.842° S	71.773° E	143.546° E	+0.01	±0.15
531	11.931° S	70.955° E	141.911° E	0	±0.54
532	12.570° S	70.800° E	141.600° E	+0.01	±0.16



L M NO	± GEODETIC LAT TO .001°	± GEODETIC LONG /2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
501	17.975° S	61.087° E	122.174° E	0	±0.15
533	14.906° S	67.841° E	135.683° E	0	±0.29
534	11.358° S	66.294° E	132.589° E	0	±0.29
535	12.467° S	65.424° E	130.849° E	0	±0.14
536	13.444° S	64.945° E	129.890° E	0	±0.29
537	14.427° S	64.677° E	129.355° E	0	±0.29

APOLLO

Earth Landmark Maps

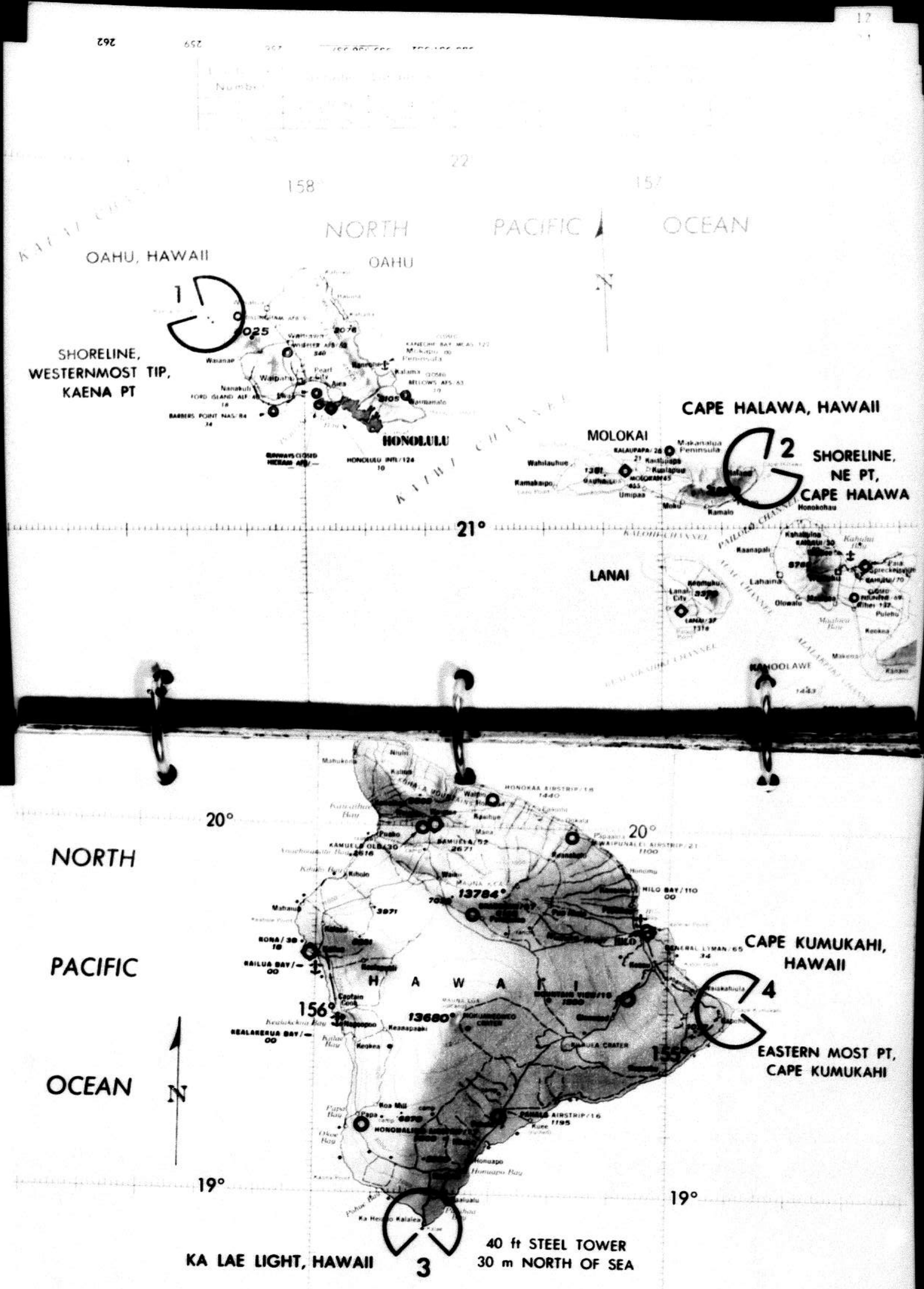
SCALE 1:1,000,000
LATITUDE AND LONGITUDE TO .001°
ELEVATION AND HORIZONTAL UNCERTAINTY TO .01 NM

ELEVATIONS REFERENCED TO FISCHER ELLIPSOID

NOTE
LANDMARK PHOTOGRAPHS ARE AVAILABLE FOR
THOSE LANDMARKS WITH UNDERLINED CODE NUMBERS

Edition 1—NASA

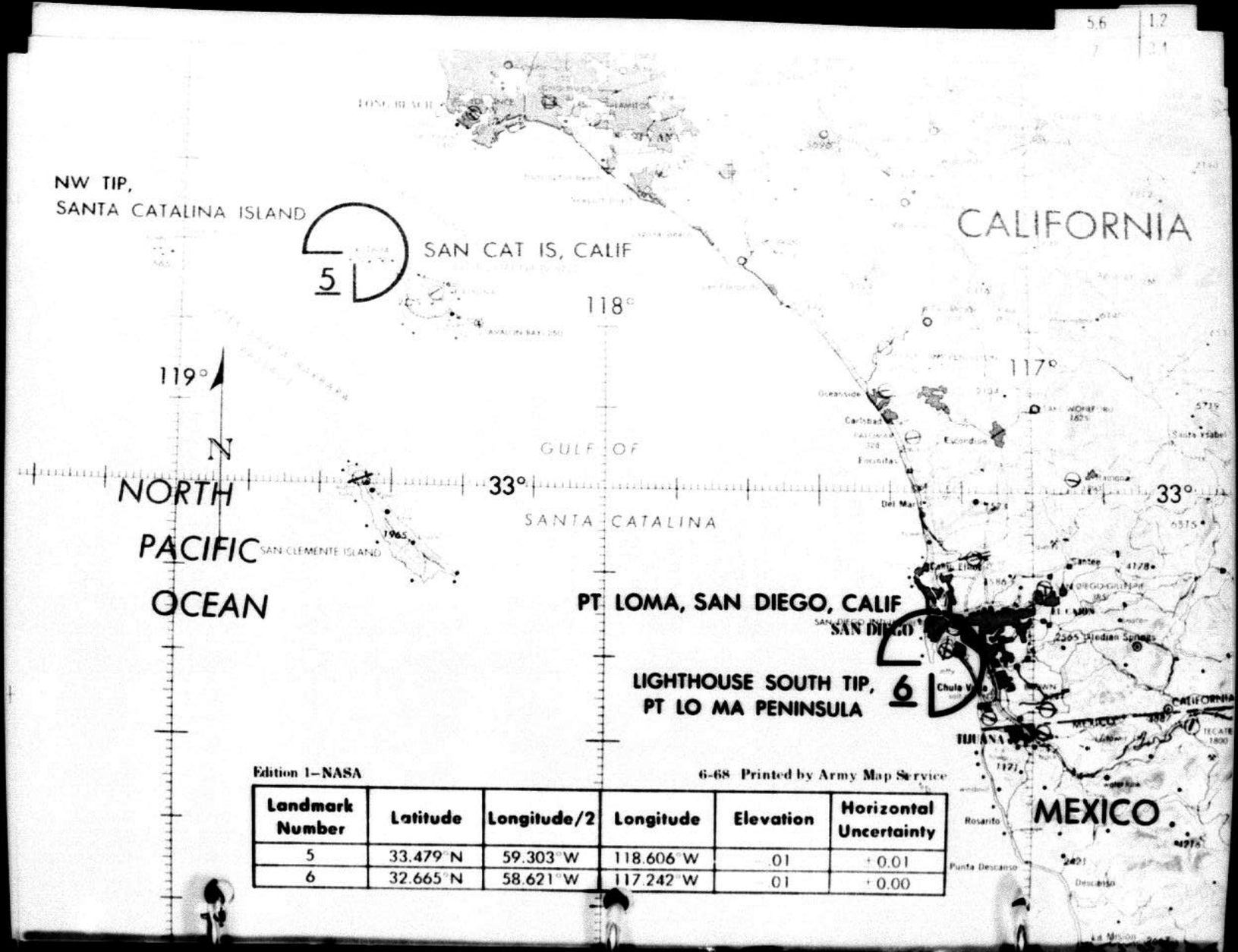
6-68 Printed by Army Map Service



Edition 1–NASA

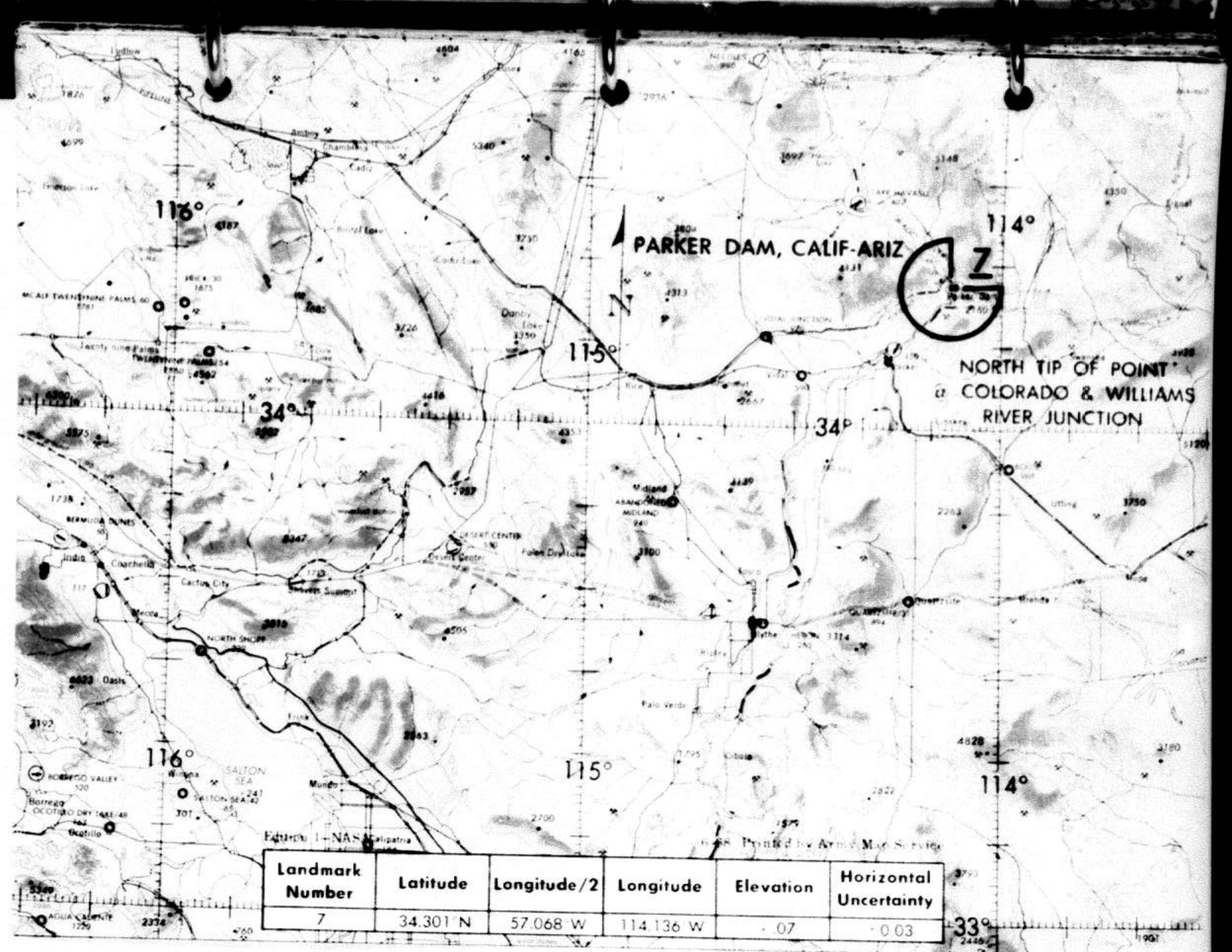
6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
3	18.915 N	77.842 W	155.685 W	0.00	±0.12
4	19.520 N	77.405 W	154.810 W	0.00	±0.17



Edition 1–NASA 6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
5	33.479°N	59.303°W	118.606°W	.01	±0.01
6	32.665°N	58.621°W	117.242°W	.01	±0.00



Edition 1–NASA 6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
7	34.301°N	57.068°W	114.136°W	±.07	±0.03

SANTA EUGENIA, MEXICO

WEST TIP,
PT SANTA EUGENIA

8

NORTH
PACIFIC
OCEAN

115°

114°

27°

28°

N

Punta San Pablo

Campo Isabel

San Andrés

San Rafael

Isla Asunción

Bahía Asunción

Punta San Hipólito

Bahía San Hipólito

San Lorenzo

BAJA CALIFORNIA

PUNTA ABREOJOS, MEXICO

9

Punta Abreojos

Bahía Ballenas

SOUTH TIP,
PT ABREOJOS

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
8	27.852°N	57.540°W	115.081°W	0	±0.45
9	26.730°N	56.790°W	113.580°W	0	±0.45

Edition 1—NASA

6-68 Printed by Army Map Service

ISLA TIBURON

Punta Willard

10

Punta Kino

Punta Ast Ah Keem

Isla de San Esteban

Isla San Lorenzo

PUNTA YAYAHMEKO, MEXICO
WEST TIP,
PT YAYAHMEKO

Punta San Francisquito

Isla San Pedro Mártir

El Barril

Cabo San Miguel

Angostura

Bahía San Carlos

Bahía Santa Ana

Volcán Las Tres Vírgenes

GULF
OF
CALIFORNIA

N

29°

28°

112°

111°

La Yuta

Hermosillo

San Luis

Viznaga

San Vicente

San Rafael

El Carmen

Punta Baja

Tastiota

Cieneguita

Isla San Pedro Nolasco

Punta San Antonio

Guaymas

Pitahaya

Potam

CABO HARO GUAYMAS, MEXICO

SOUTH TIP,
CABO HARO

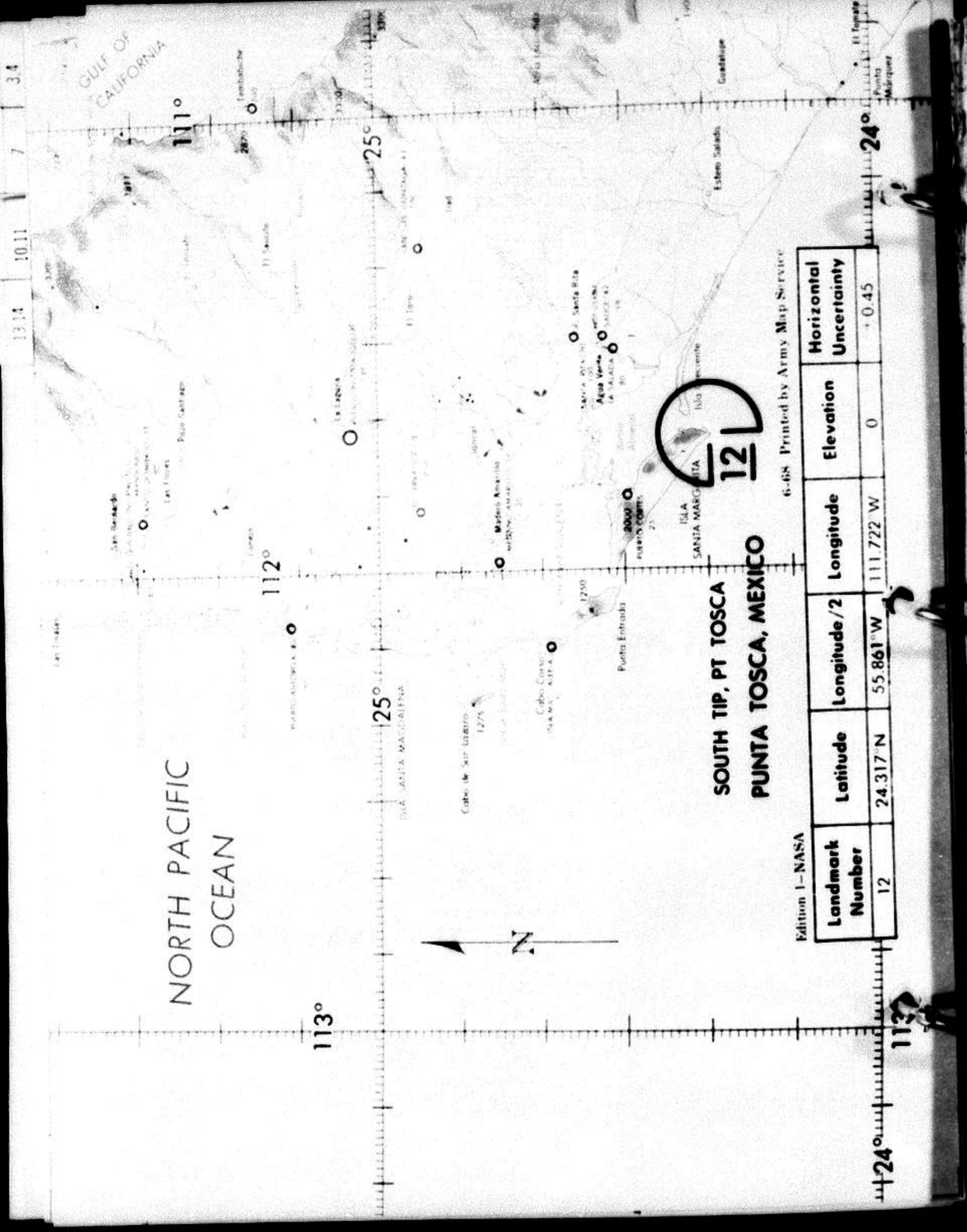
11

Edition 1—NASA

6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
10	28.876 N	56.292 W	112.585 W	0	±0.11
11	27.839 N	55.442 W	110.885 W	0	±0.11

12
13.14



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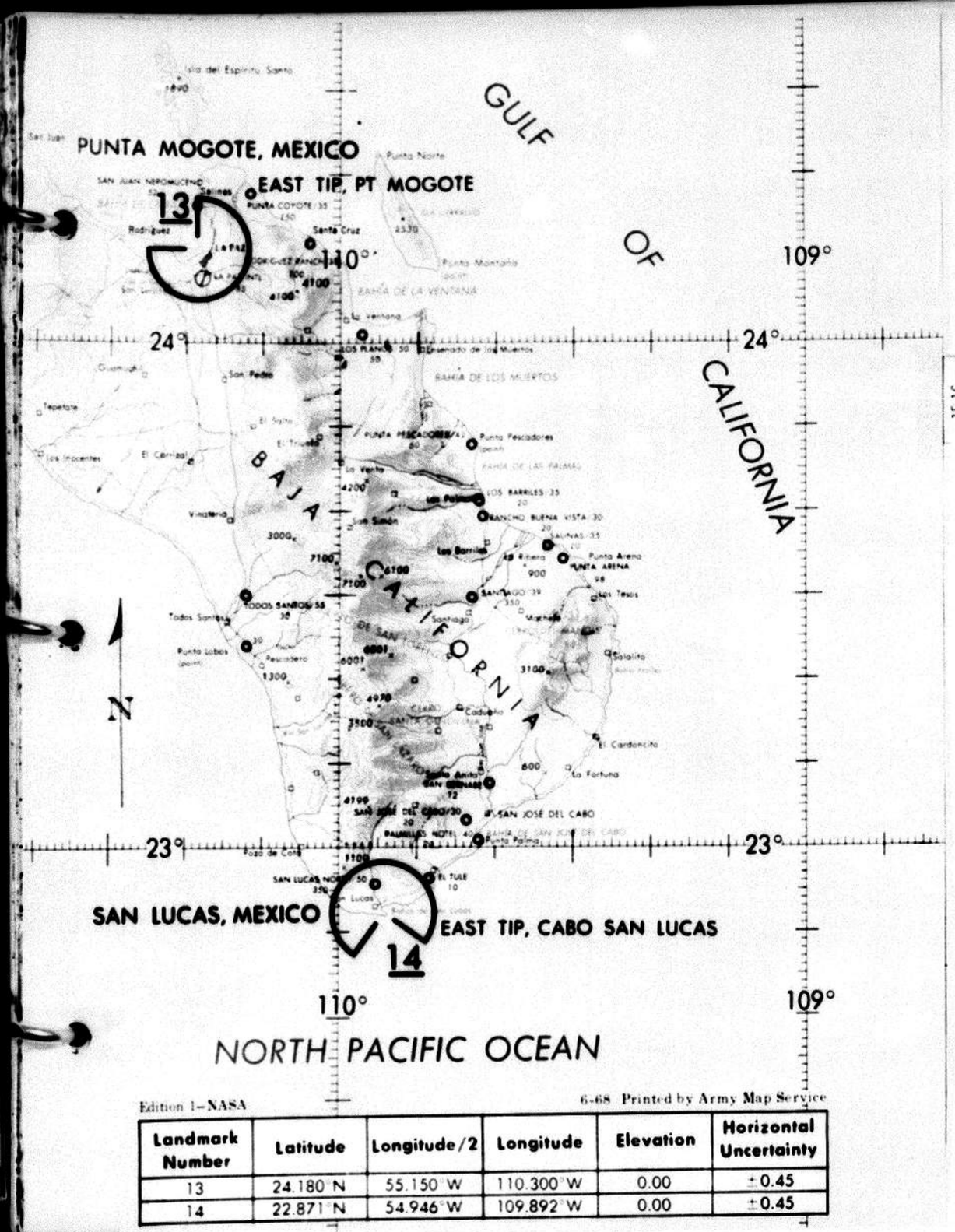
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
12	24.317°N	55.861°W	111.722°W	0	±0.45



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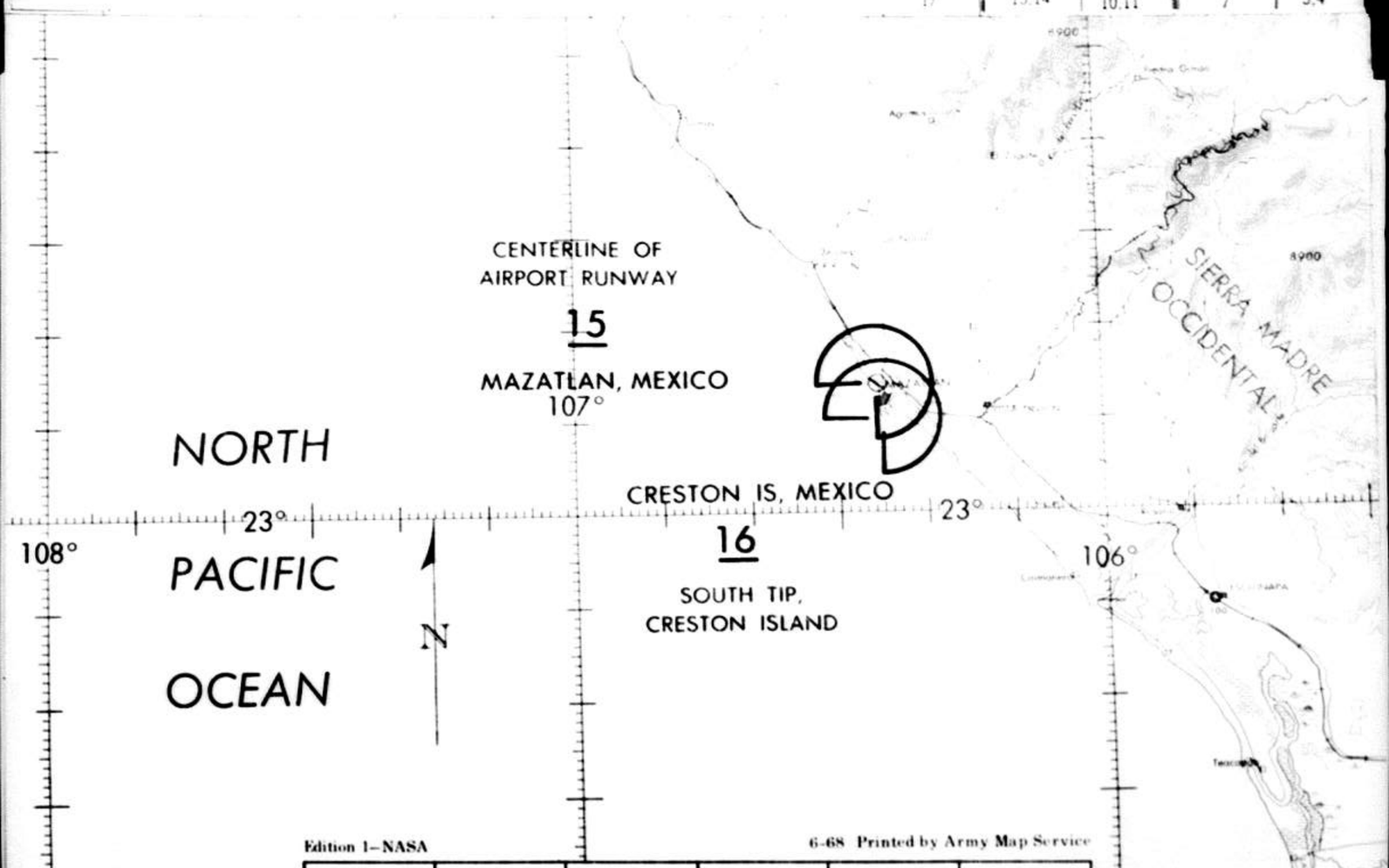
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
13	24.180°N	55.150°W	110.300°W	0.00	±0.45
14	22.871°N	54.946°W	109.892°W	0.00	±0.45



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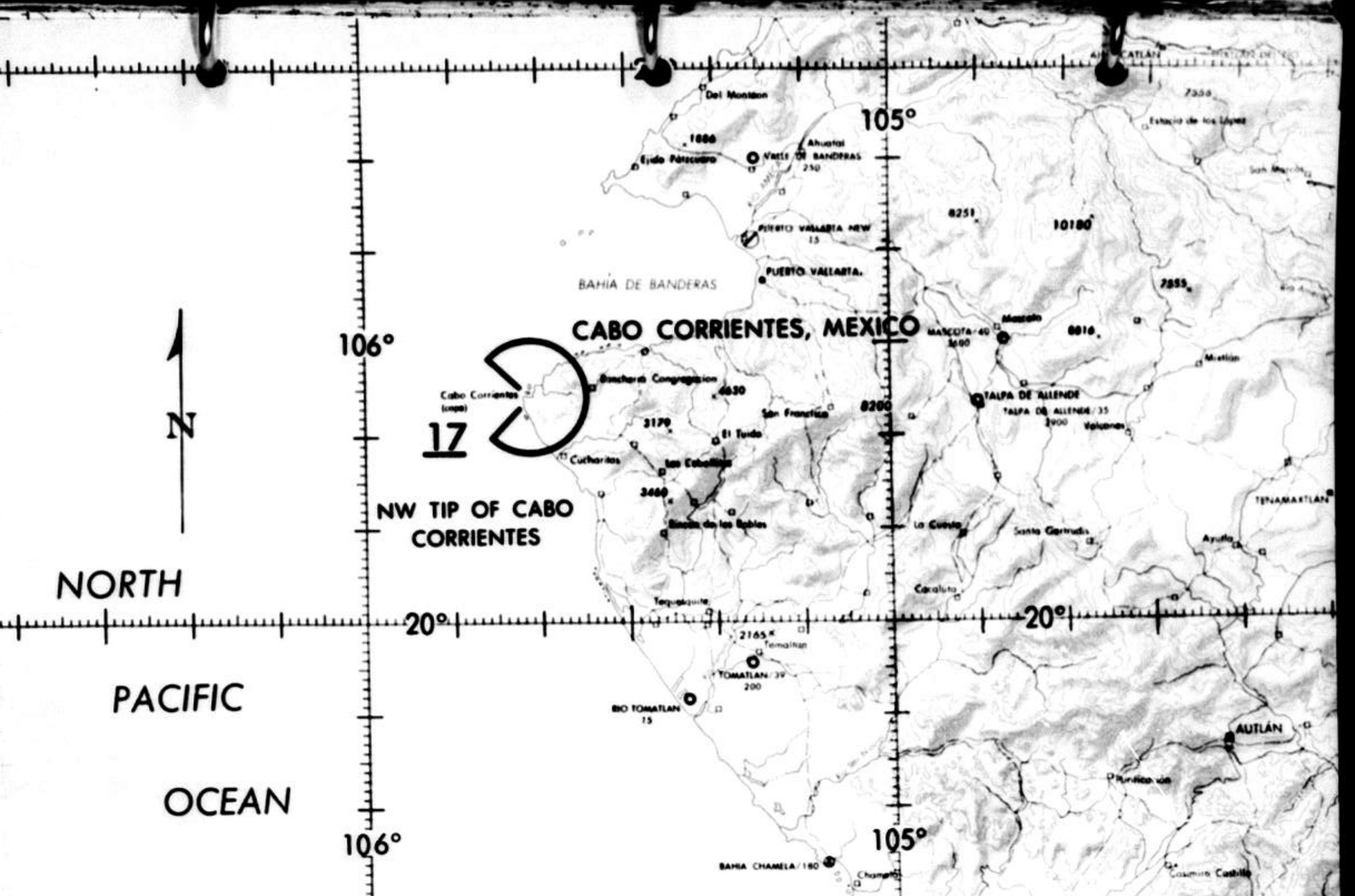
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
15	23.232°N	53.215°W	106.430°W	0	±0.38
16	23.175°N	53.215°W	106.430°W	0	±0.17



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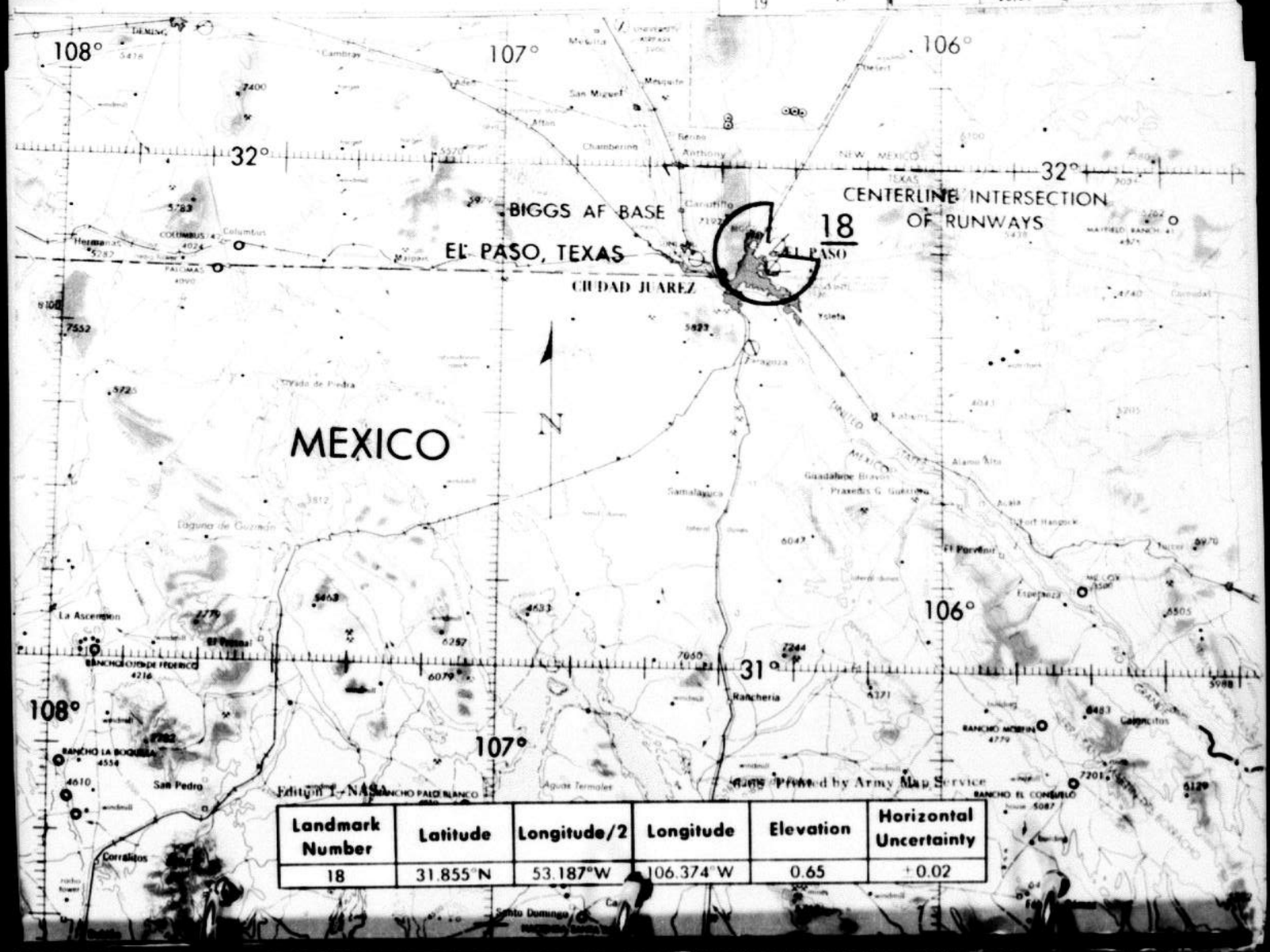
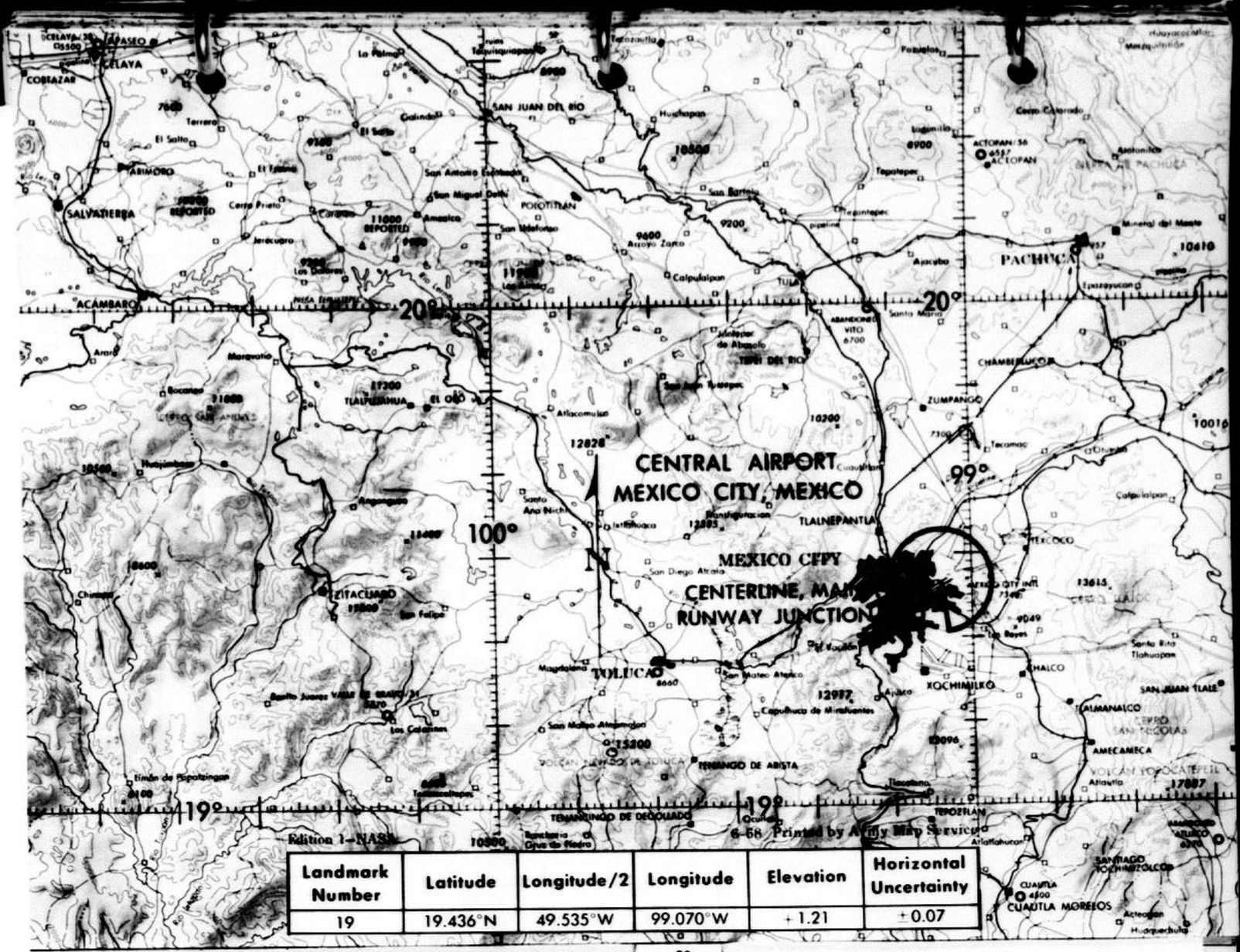
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
17	20.406°N	52.852°W	105.703°W	0	±0.23

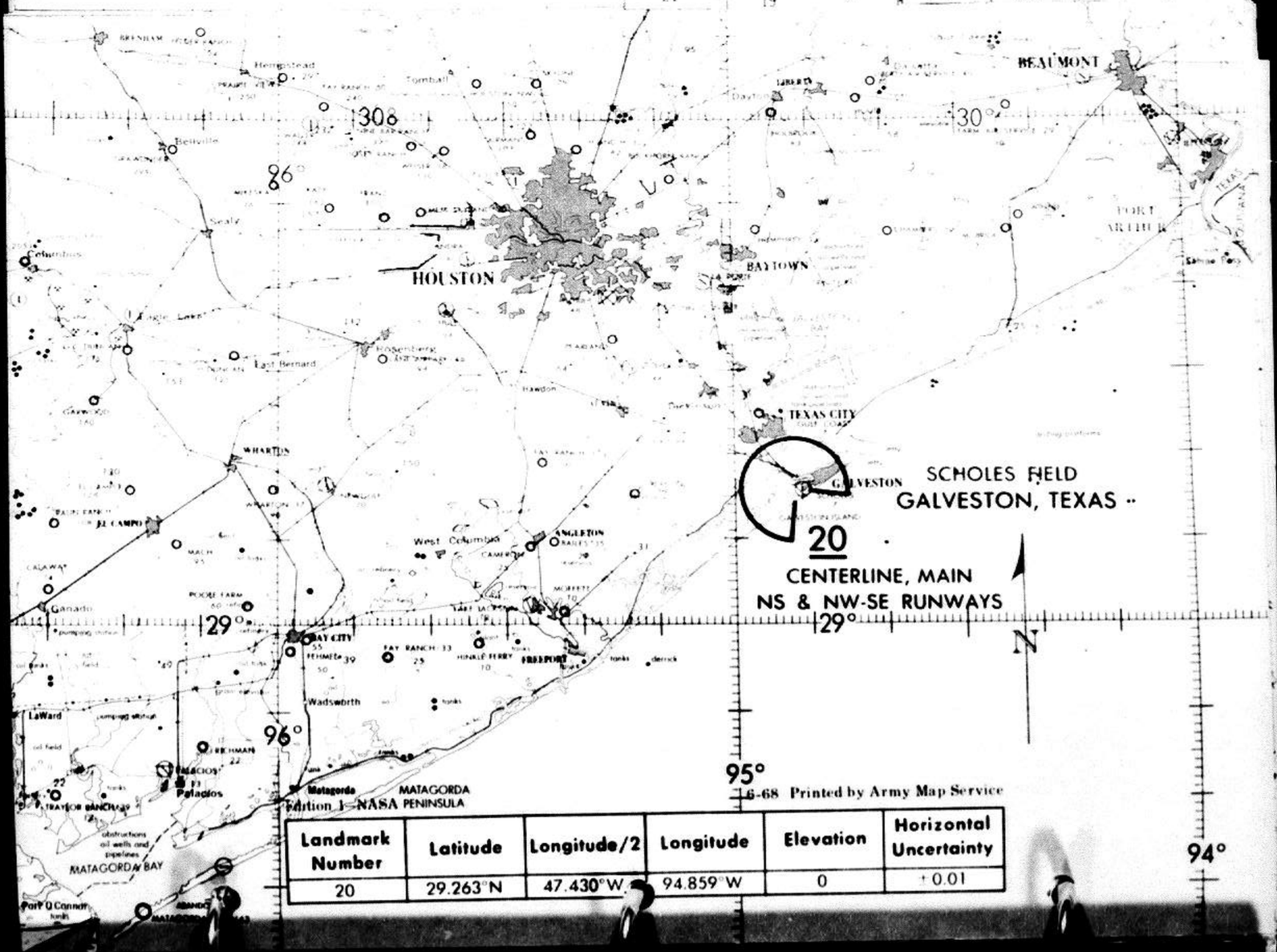
18	15,16	12	8,9	5,6	1,2
19	17	13,14	10,11	7	3,4



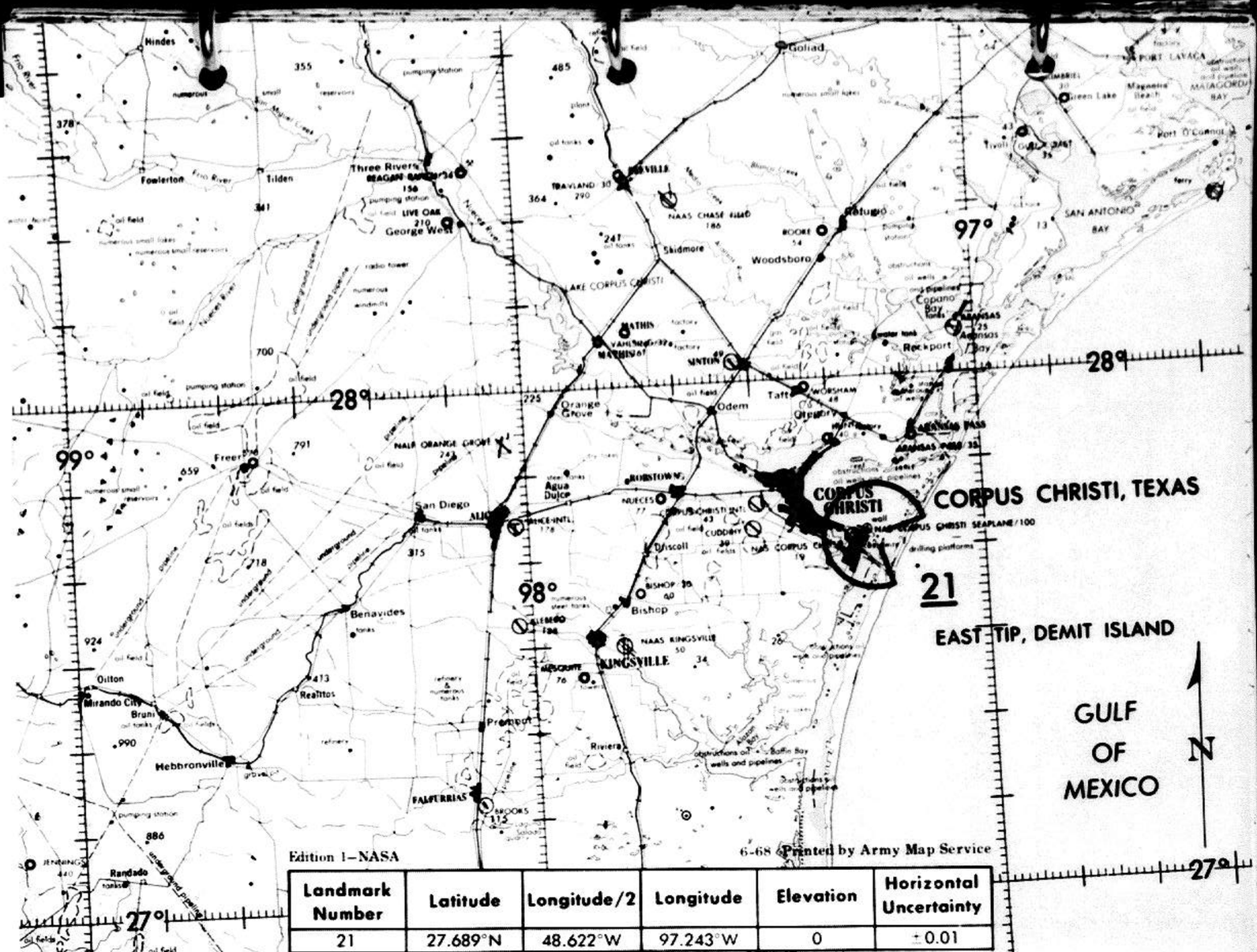
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
18	31.855°N	53.187°W	106.374°W	0.65	±0.02



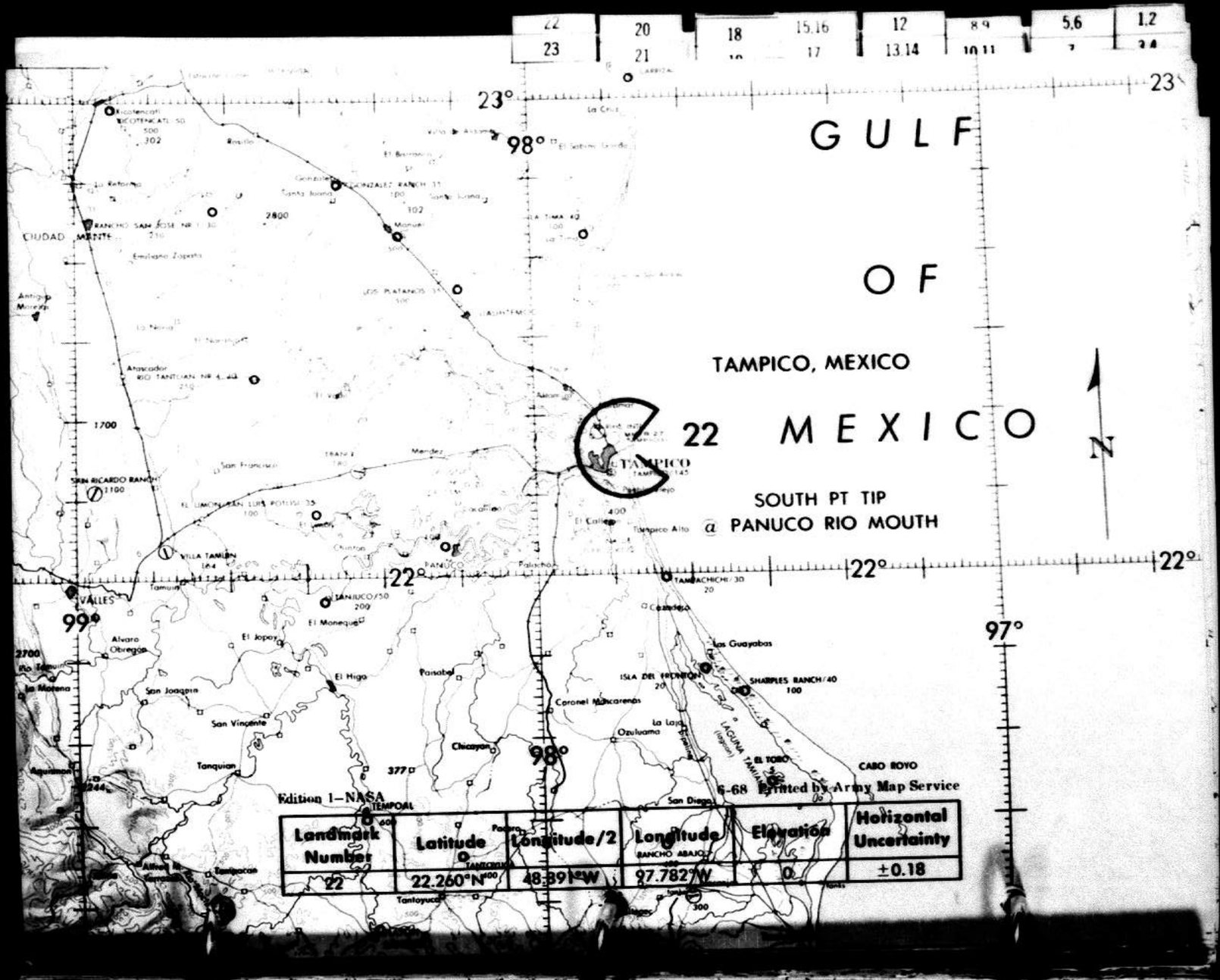
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
19	19.436°N	49.535°W	99.070°W	+1.21	±0.07



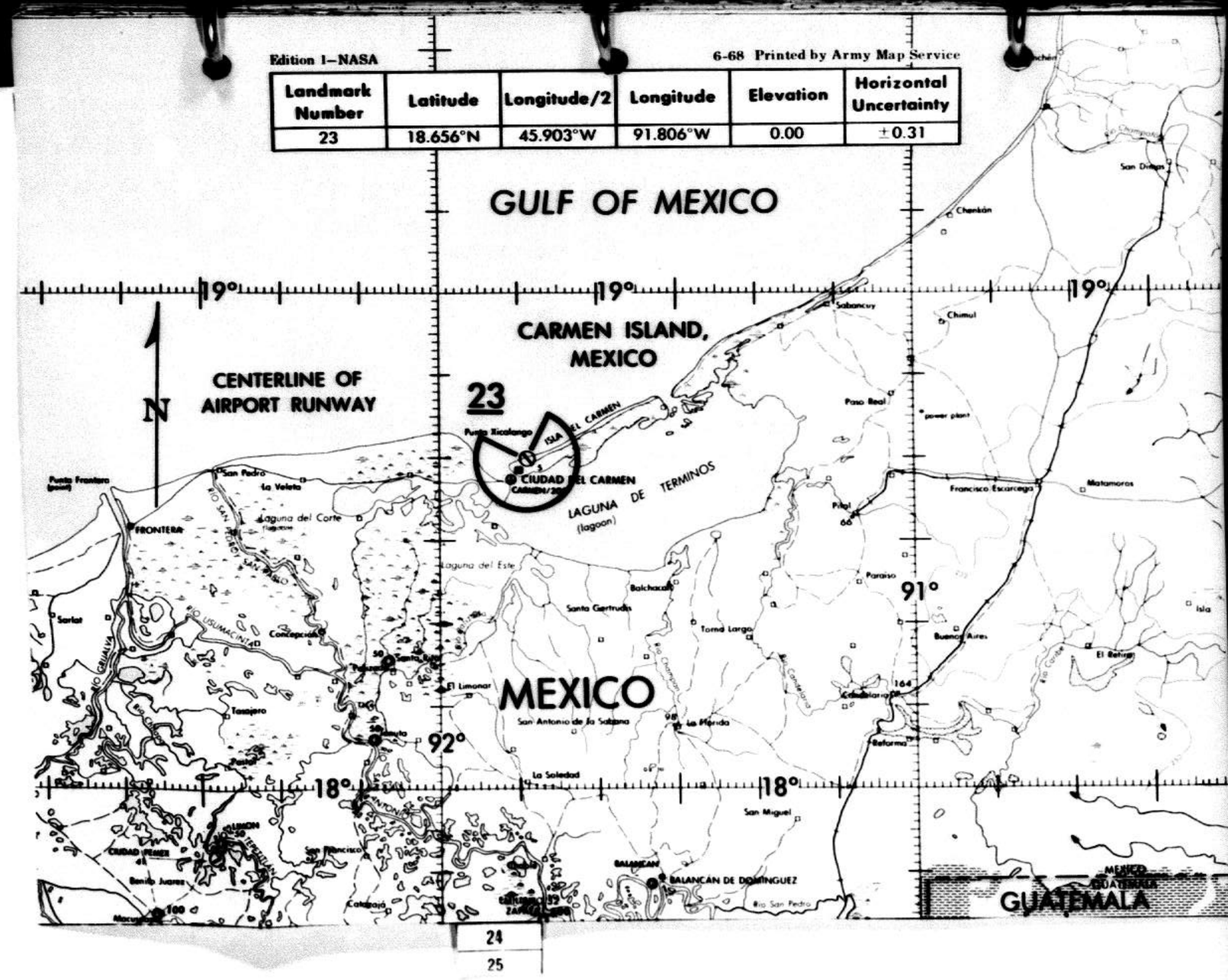
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
20	29.263°N	47.430°W	94.859°W	0	±0.01



Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
21	27.689°N	48.622°W	97.243°W	0	±0.01



Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
22	22.260°N	48.391°W	97.782°W	0	±0.18



Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
23	18.656°N	45.903°W	91.806°W	0.00	±0.31

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
24	20.937°N	44.830°W	89.659°W	+0.01	±0.31

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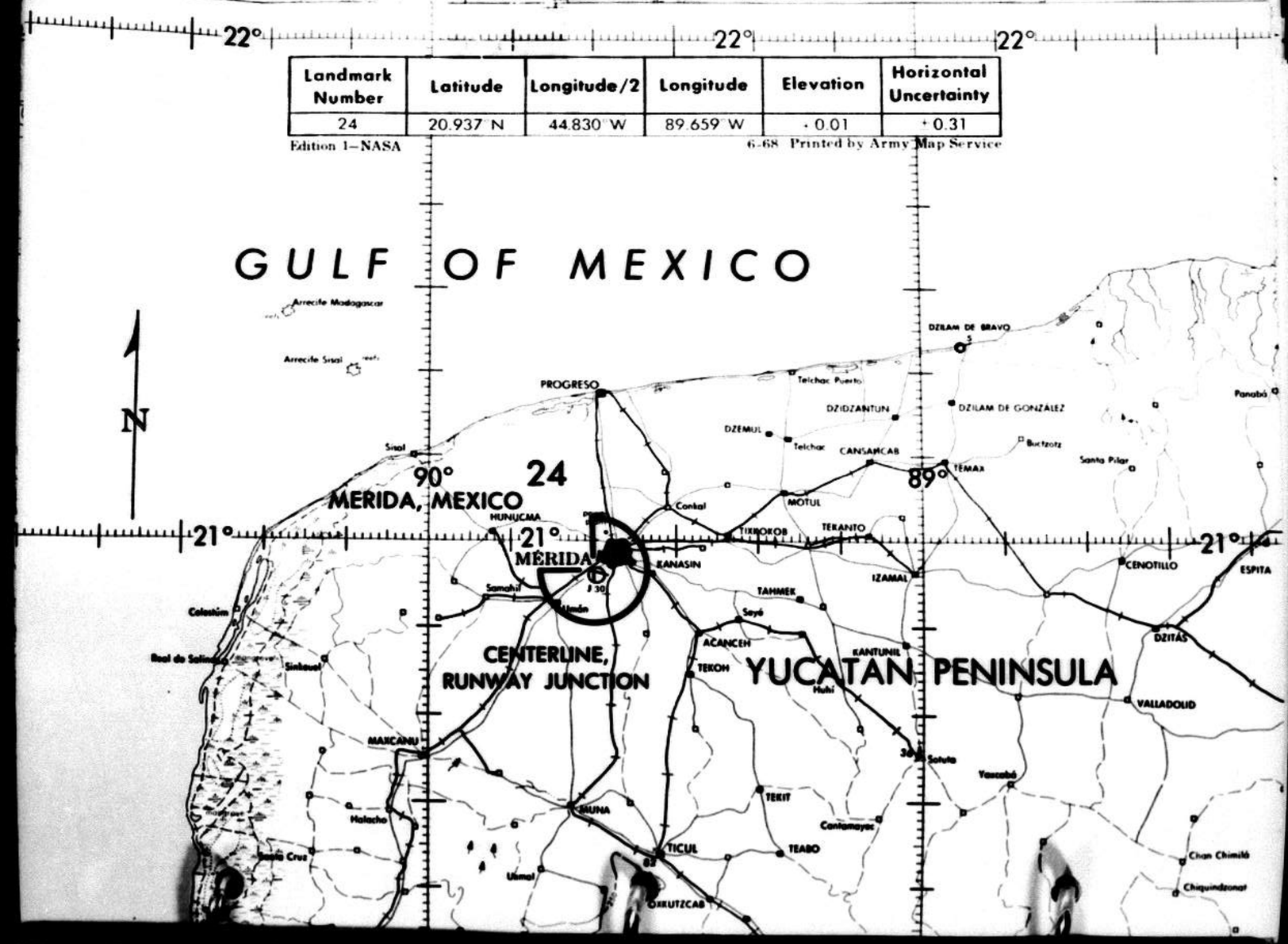

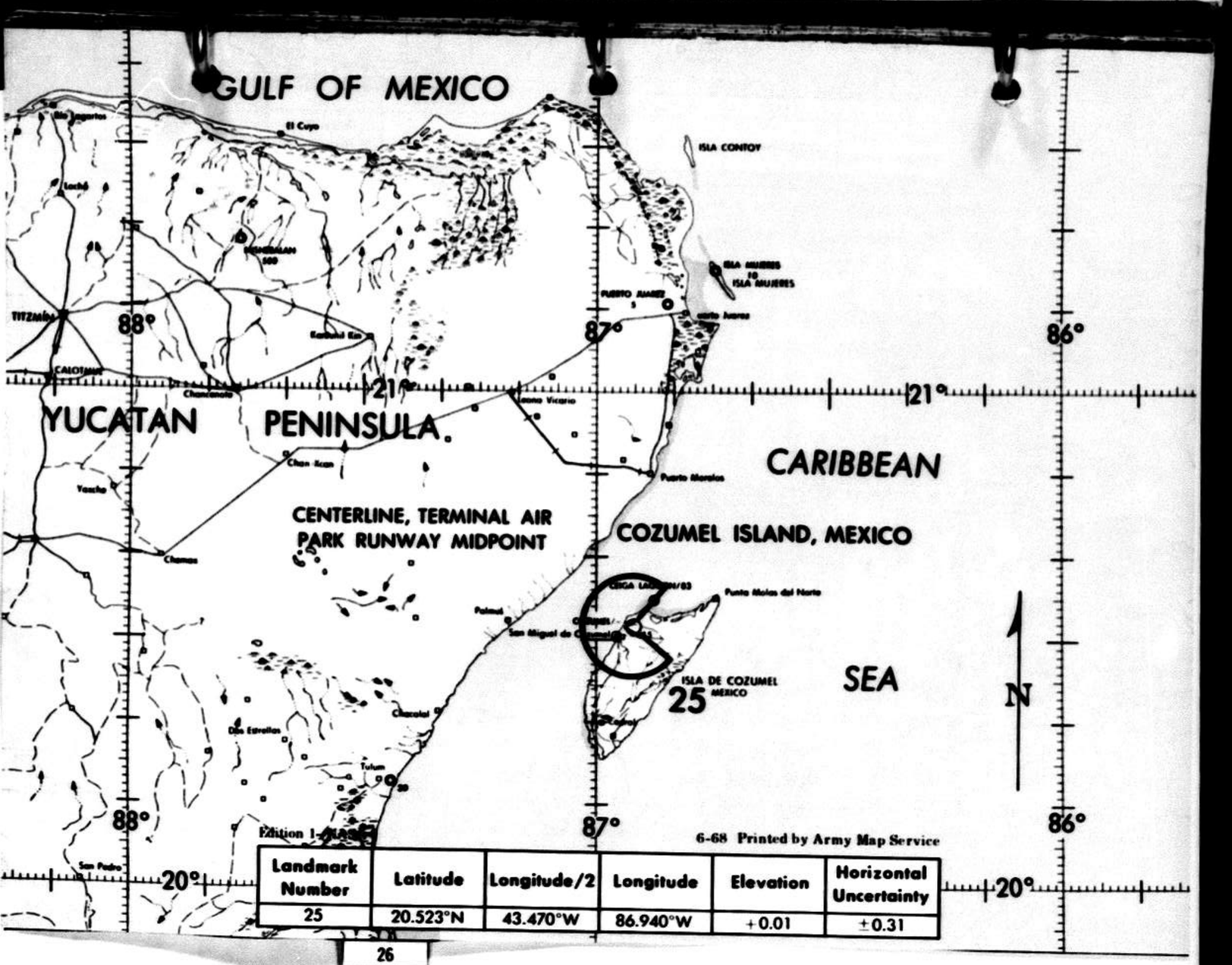

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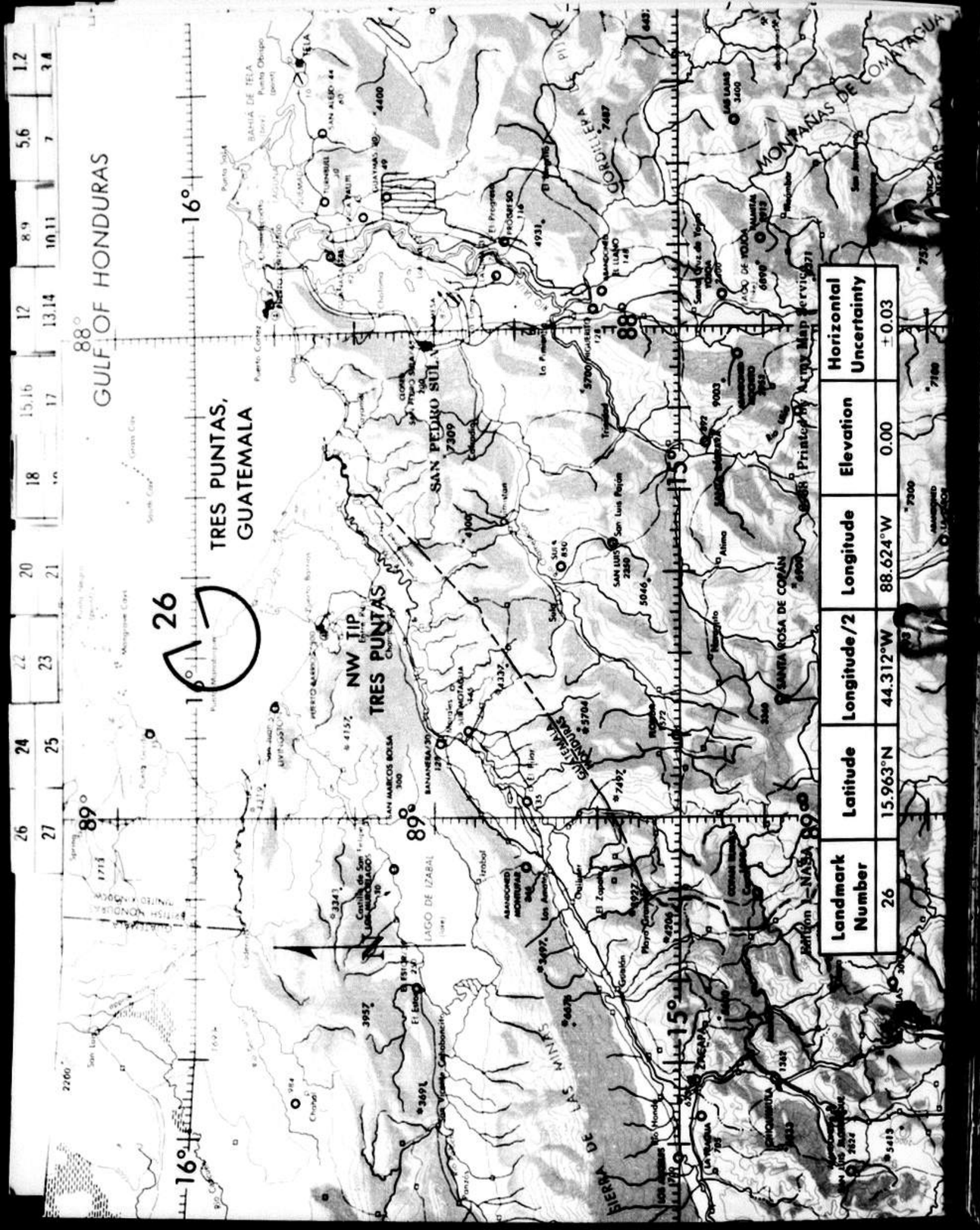
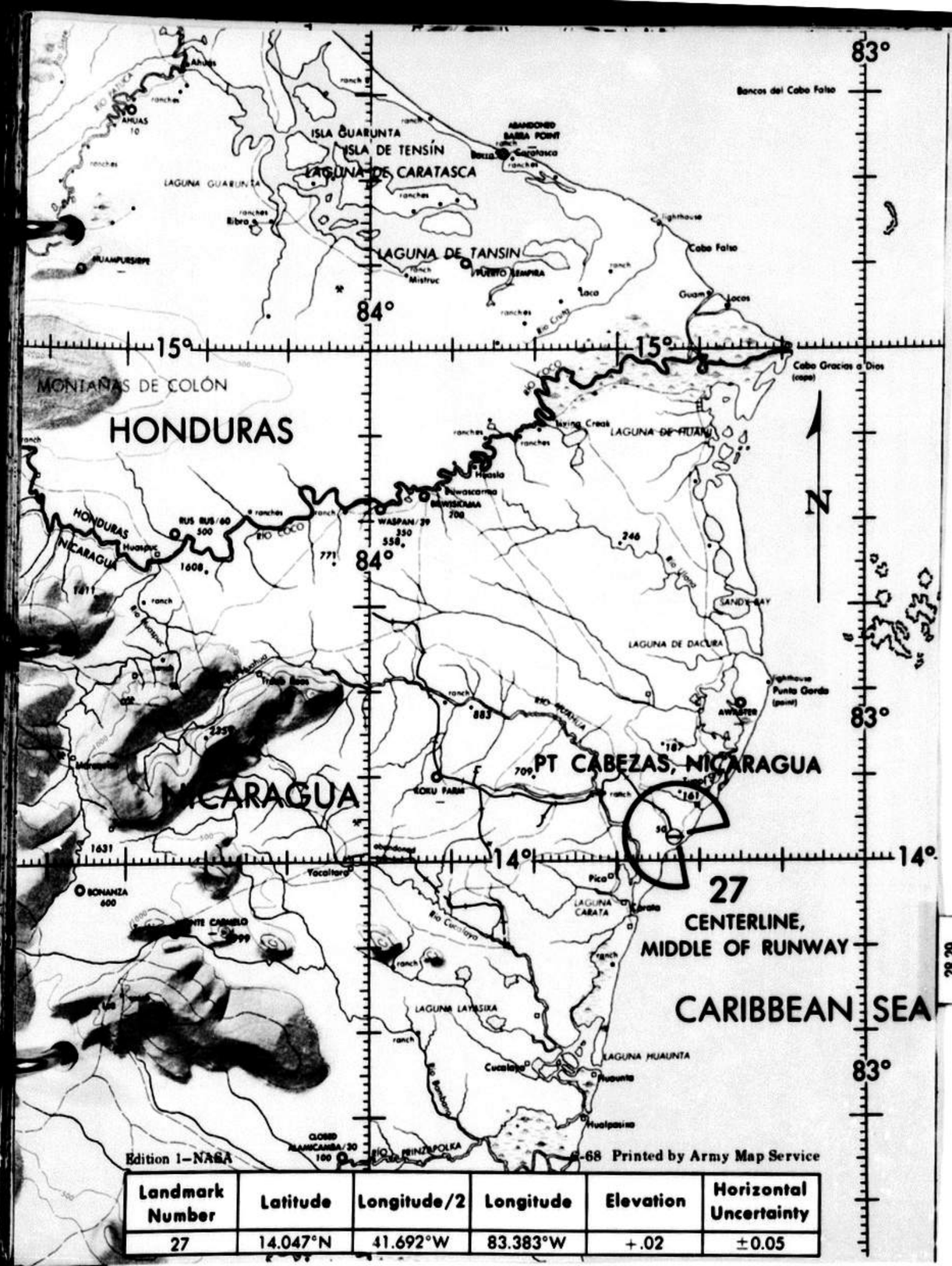
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
25	20.523°N	43.470°W	86.940°W	+0.01	±0.31



Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
26	15.963°N	44.312°W	88.624°W	0.00	±0.03



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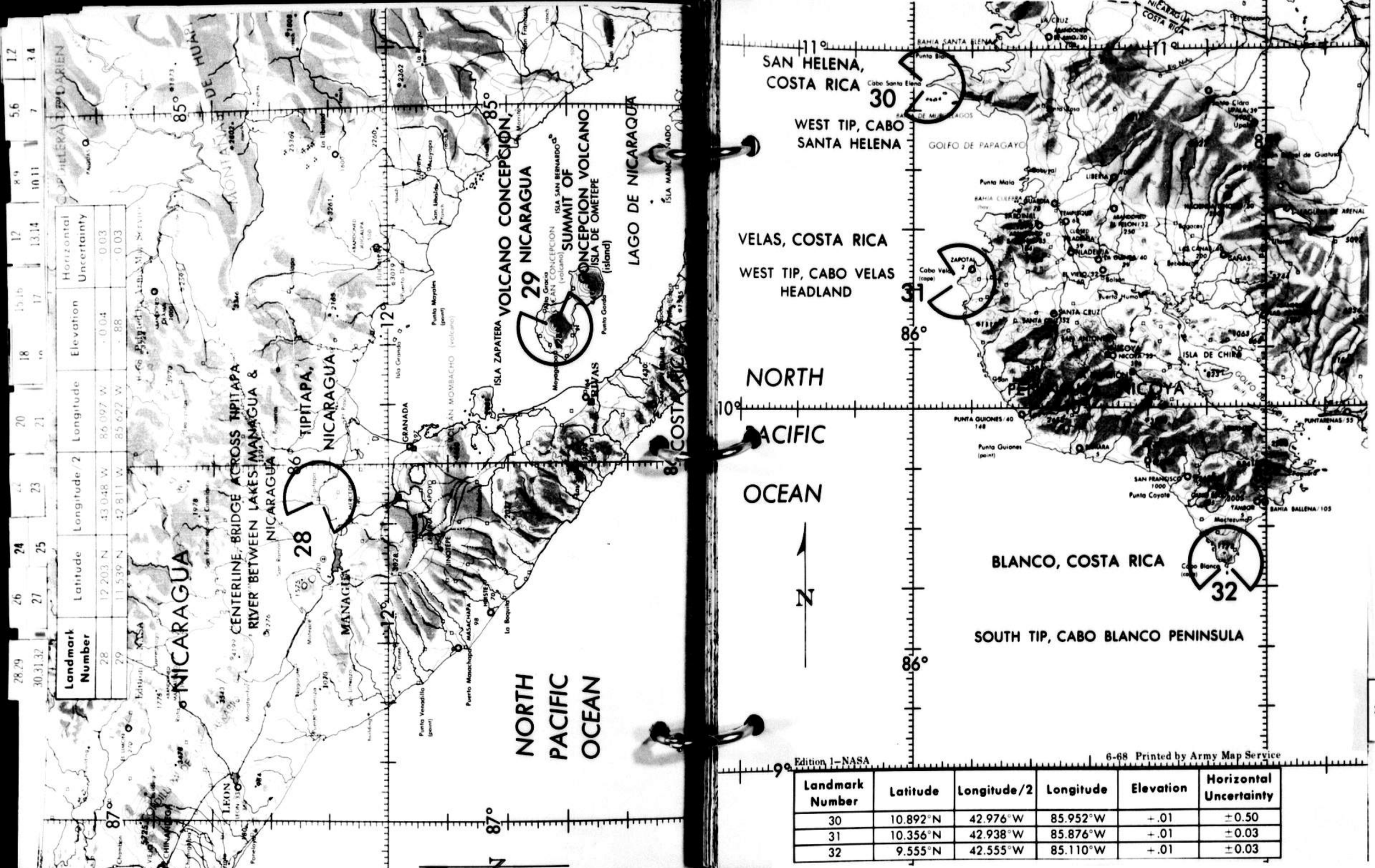
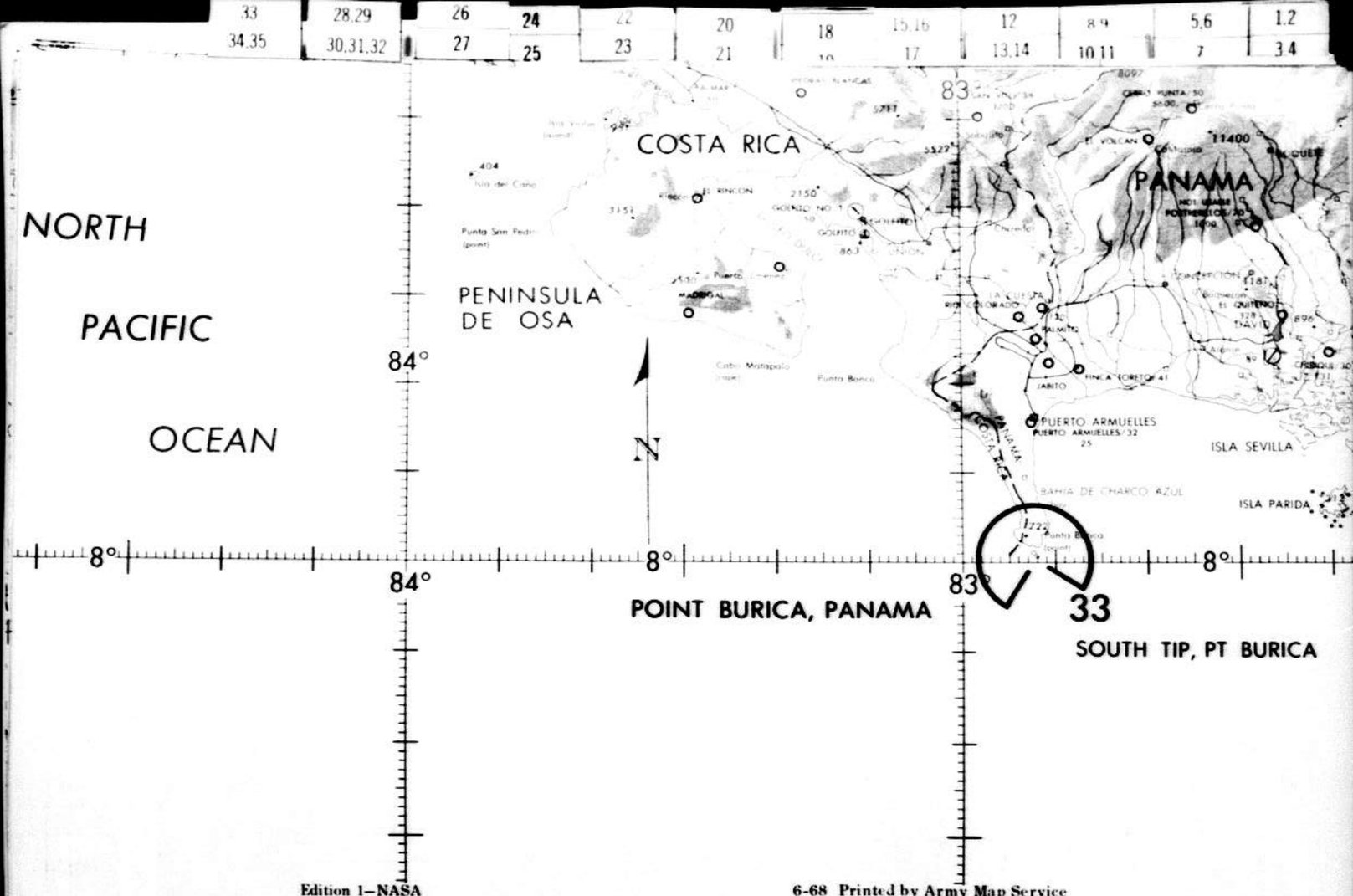
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
27	14.047°N	41.692°W	83.383°W	+.02	±0.05

28,29
30,31,32



Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
30	10.892°N	42.976°W	85.952°W	+.01	±0.50
31	10.356°N	42.938°W	85.876°W	+.01	±0.03
32	9.555°N	42.555°W	85.110°W	+.01	±0.03



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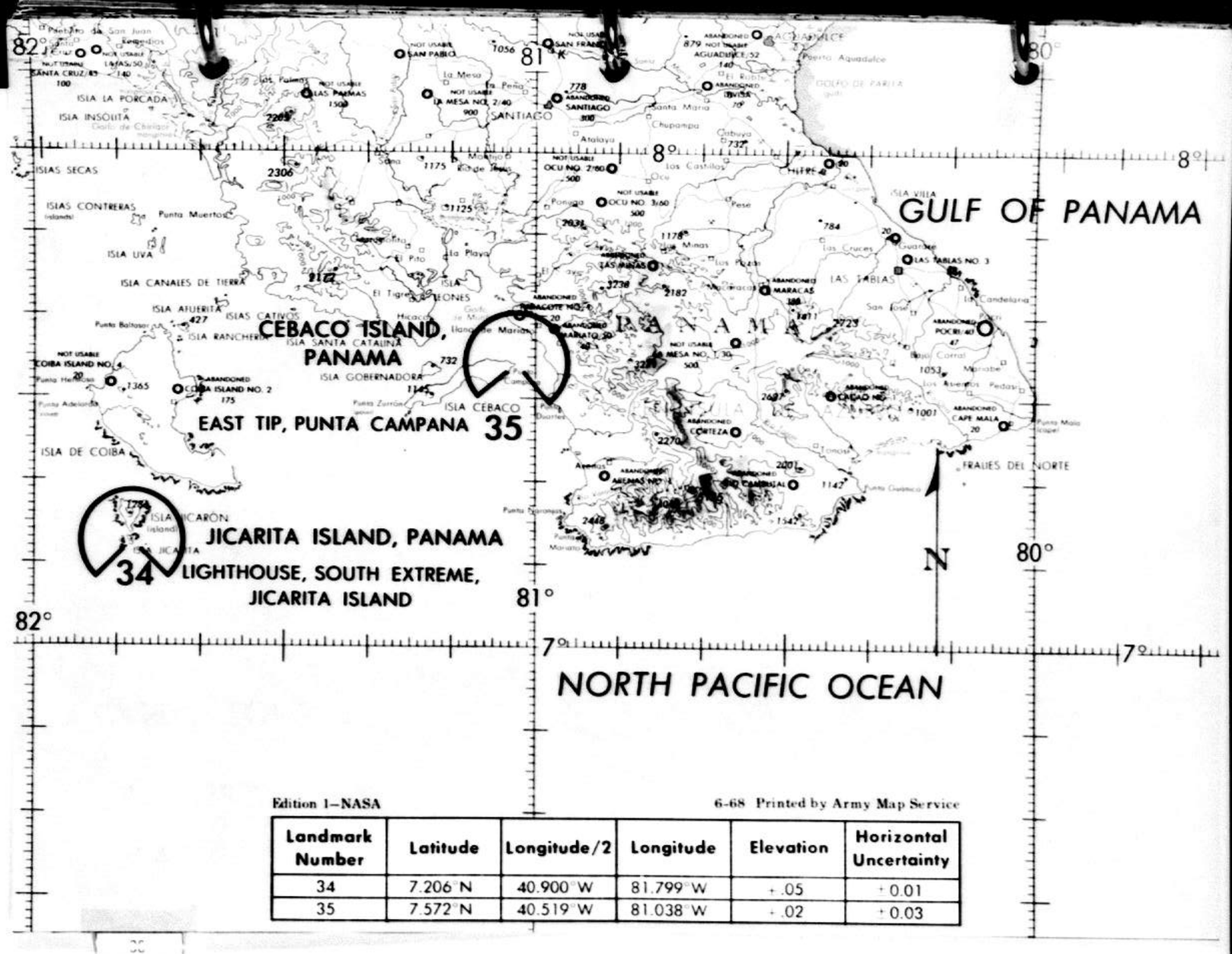
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
33	8.032°N	41.436°W	82.871°W	+.01	±0.12



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Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
34	7.206°N	40.900°W	81.799°W	+.05	±0.01
35	7.572°N	40.519°W	81.038°W	+.02	±0.03

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
36	8.660°N	39.846°W	79.693°W	0.02	0.03

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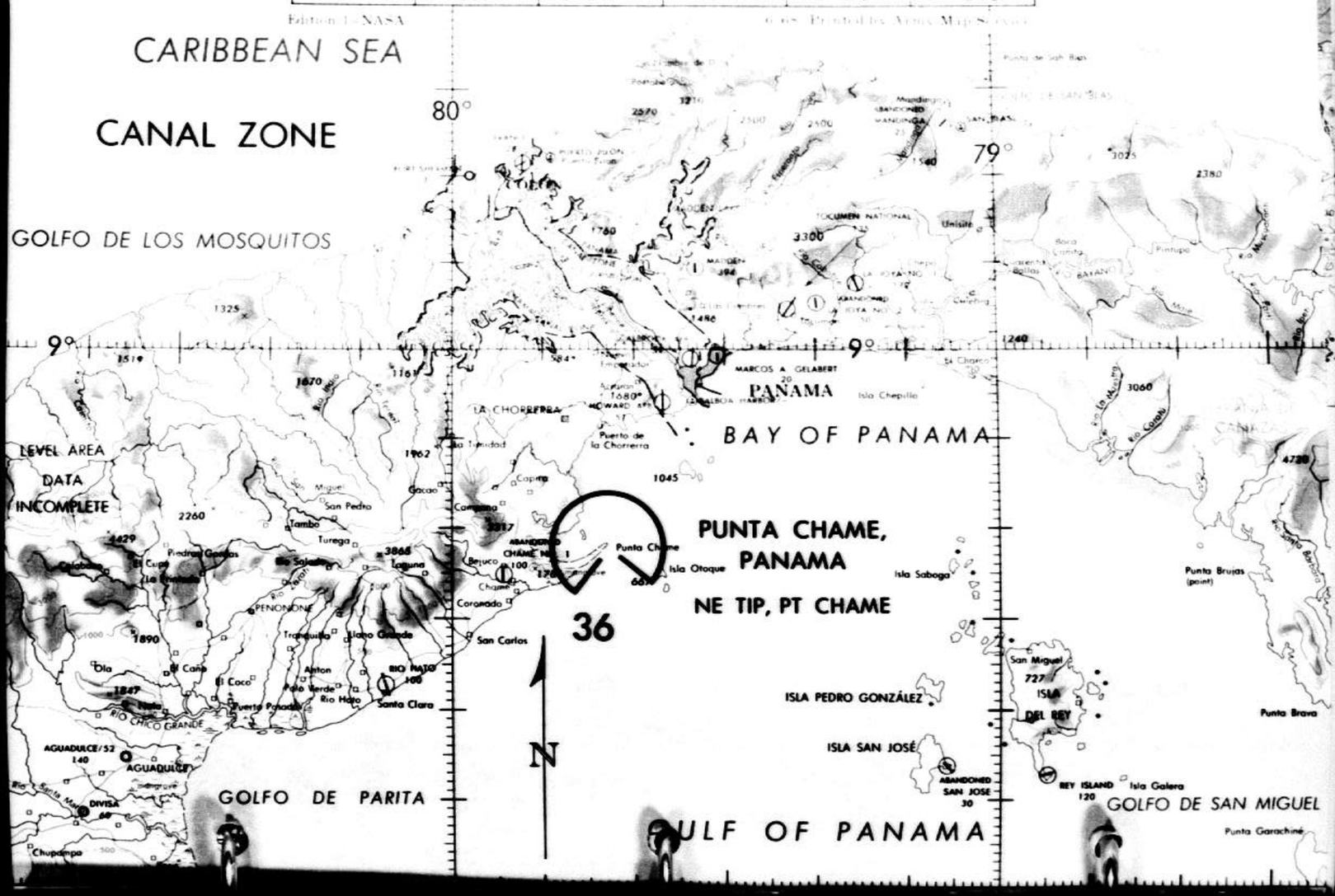

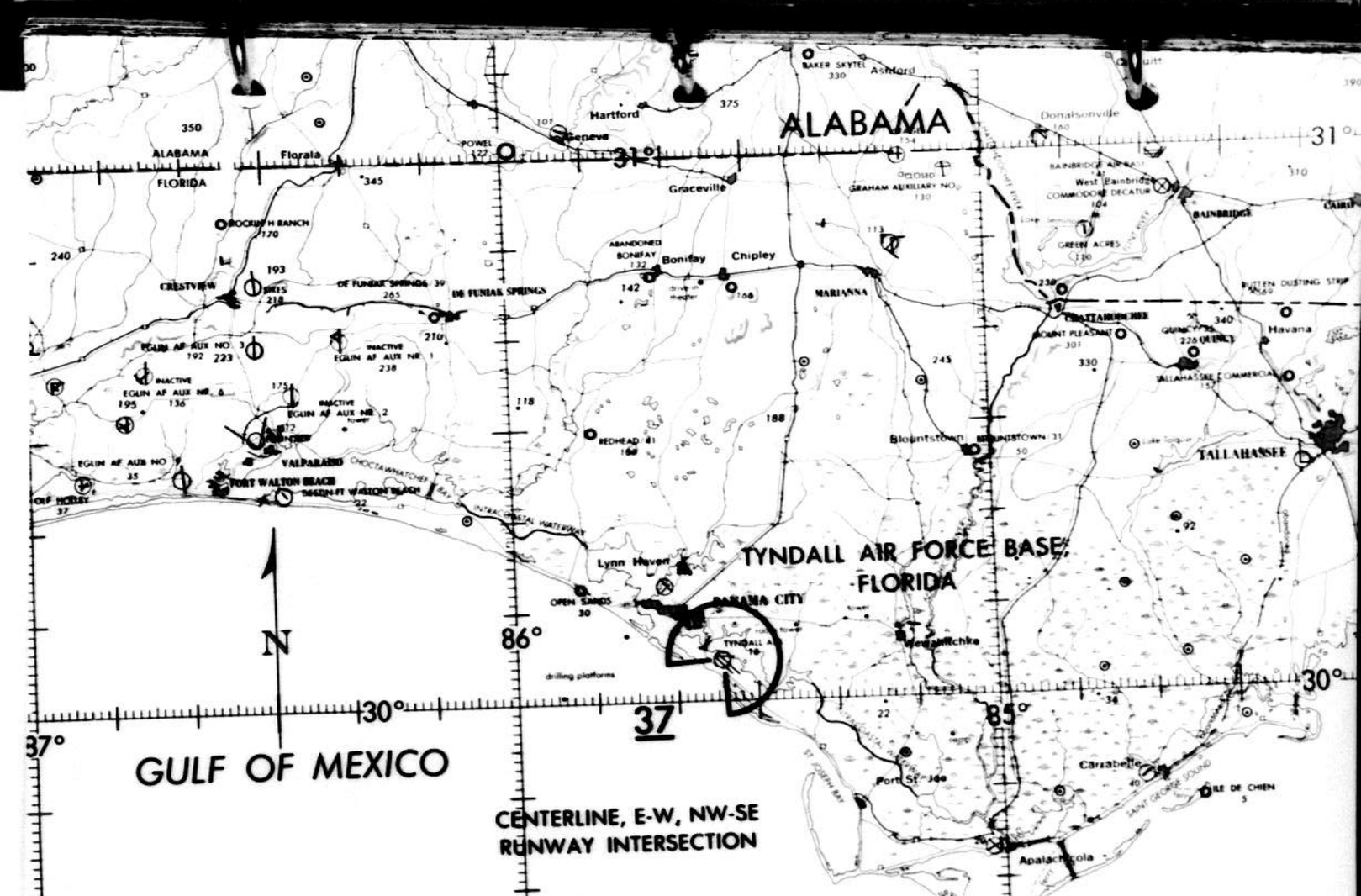

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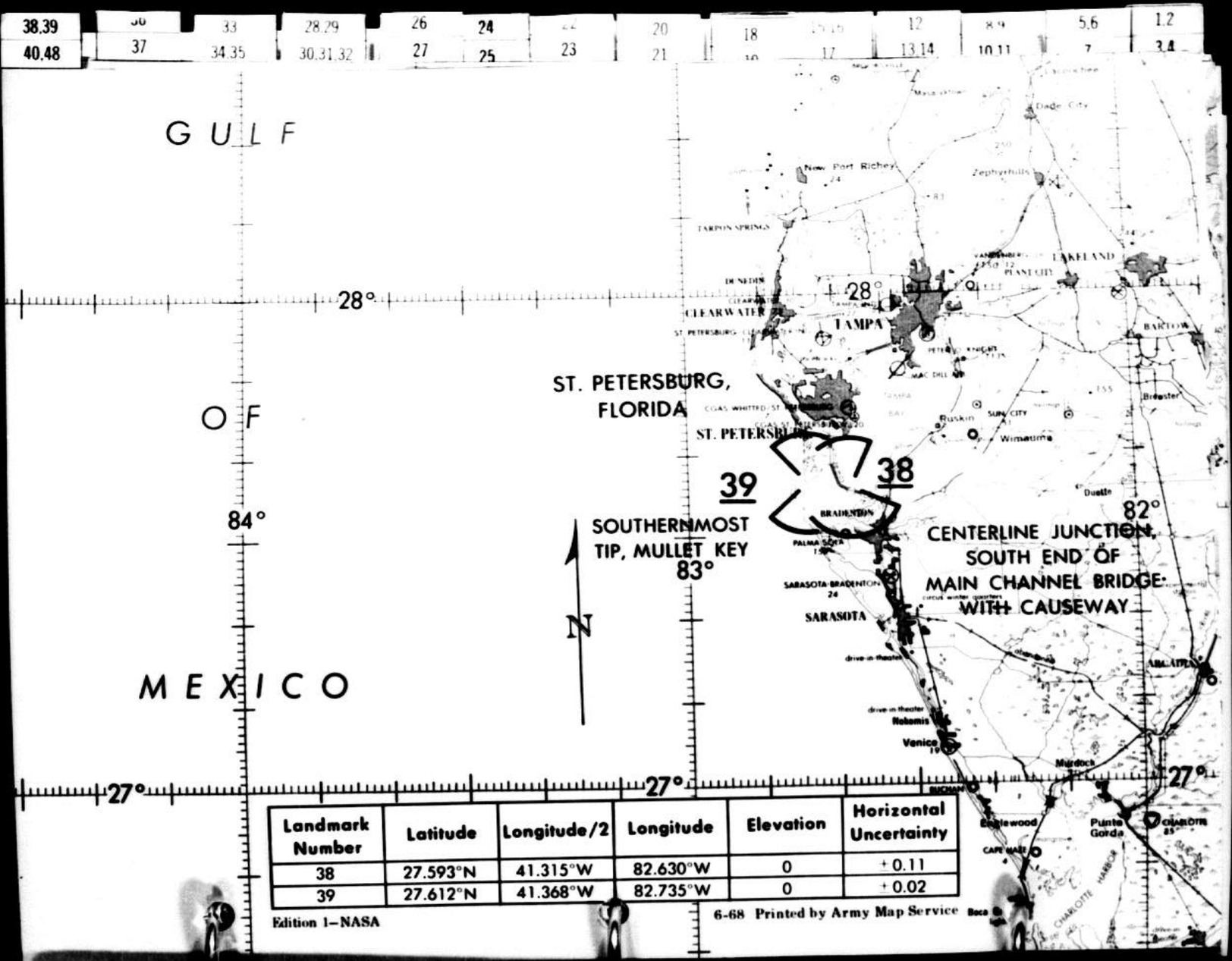
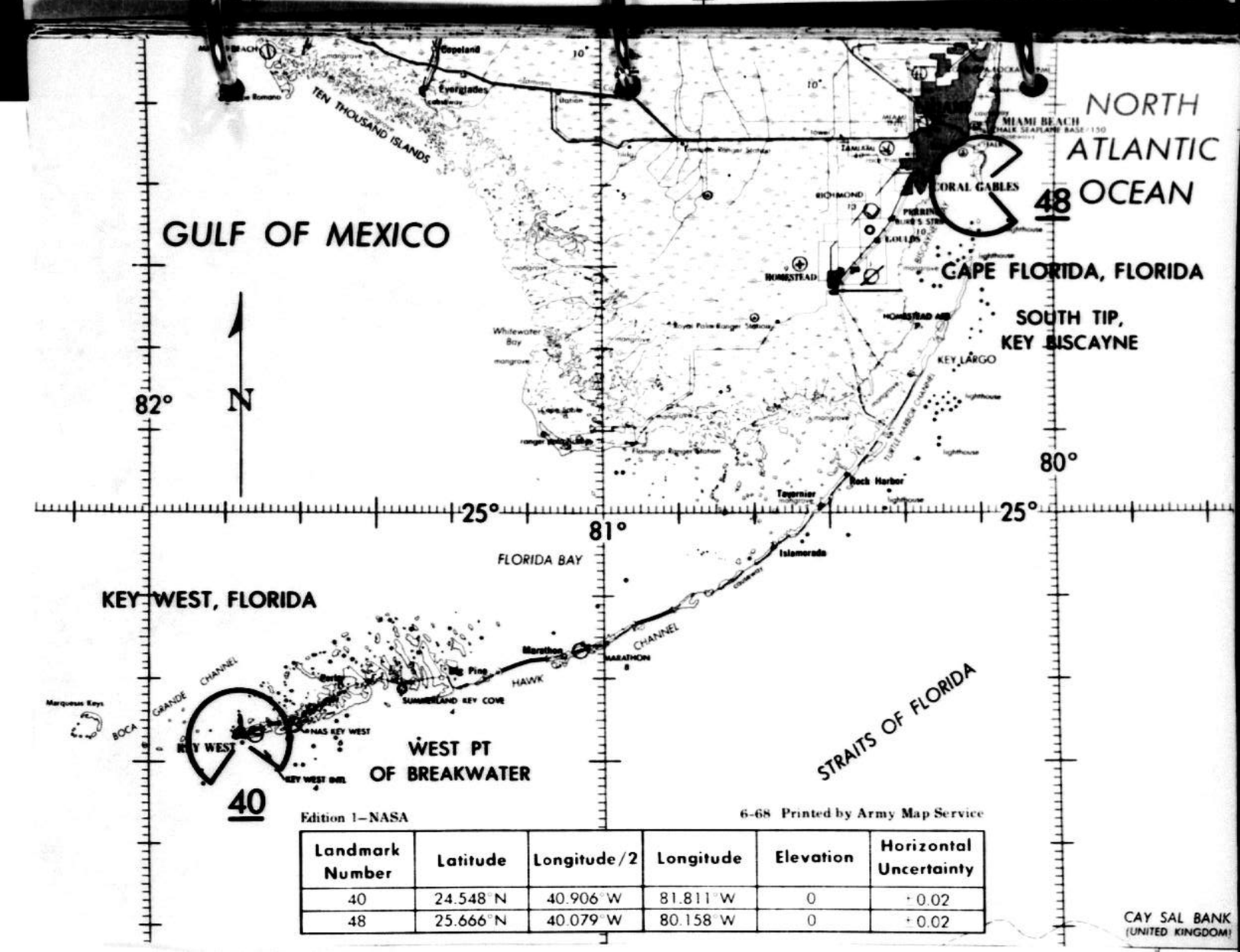
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
37	30.077°N	42.790°W	85.581°W	0	0.02

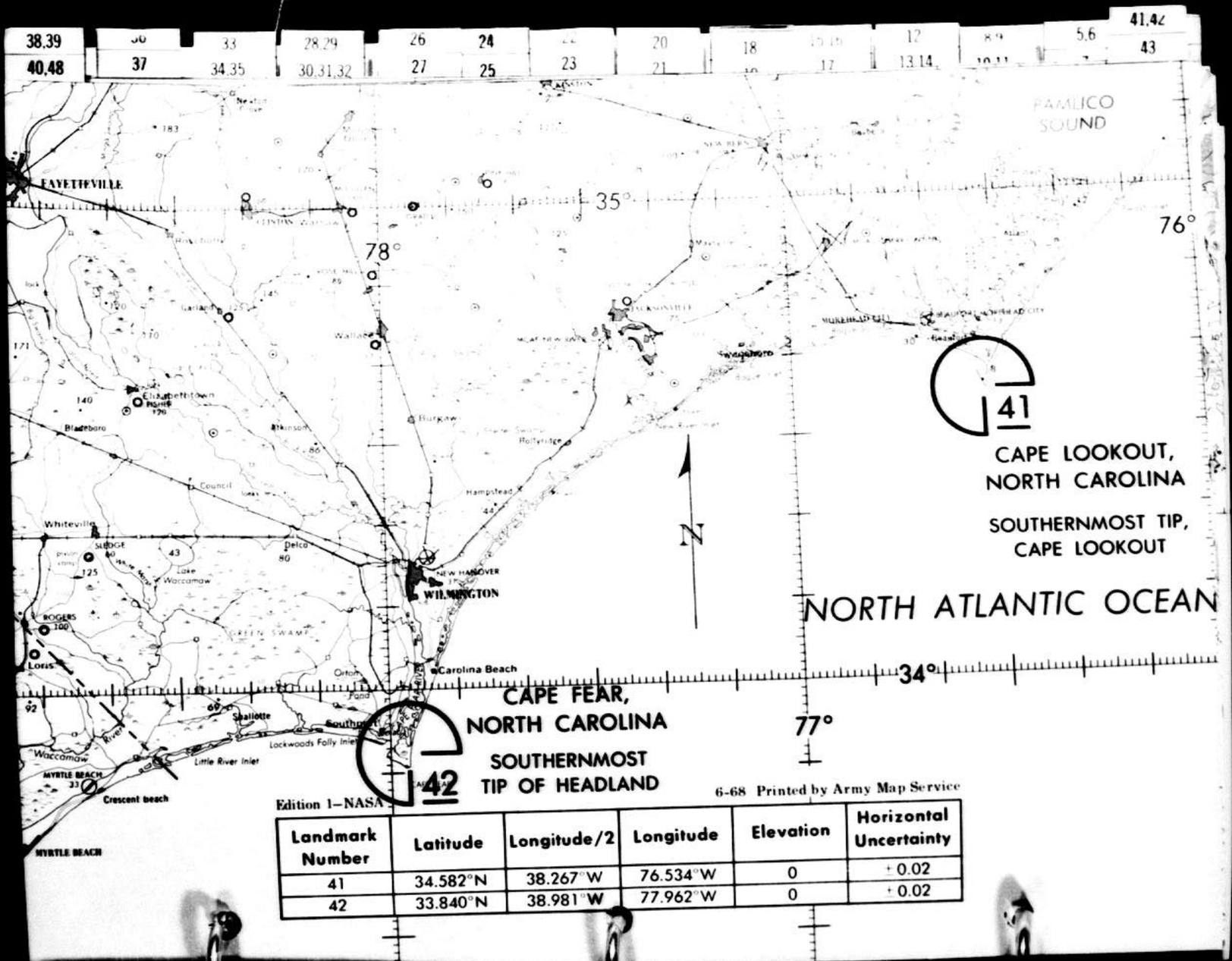


Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
38	27.593°N	41.315°W	82.630°W	0	±0.11
39	27.612°N	41.368°W	82.735°W	0	±0.02



Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
40	24.548°N	40.906°W	81.811°W	0	±0.02
48	25.666°N	40.079°W	80.158°W	0	±0.02

CAY SAL BANK (UNITED KINGDOM)



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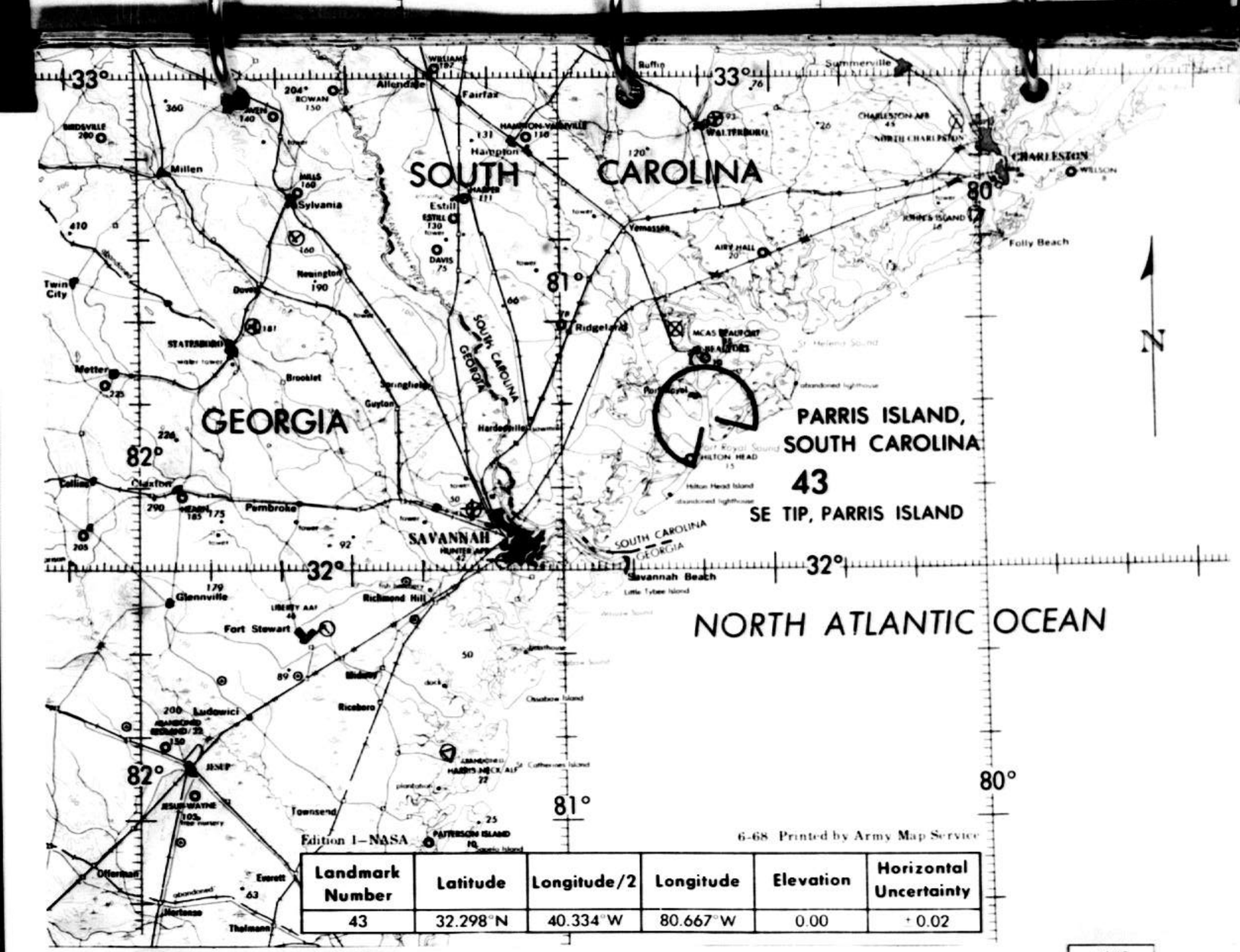
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
41	34.582°N	38.267°W	76.534°W	0	±0.02
42	33.840°N	38.981°W	77.962°W	0	±0.02



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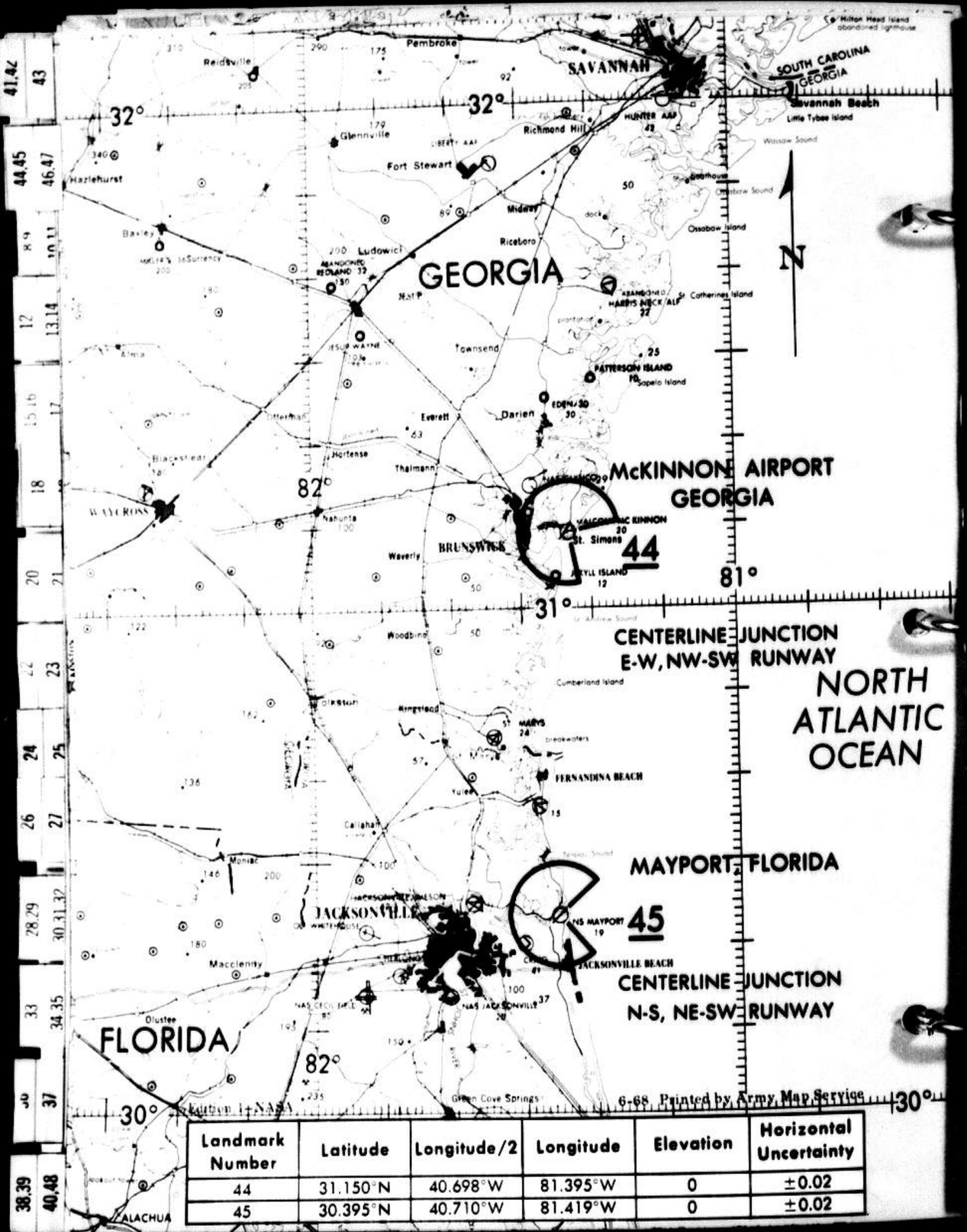
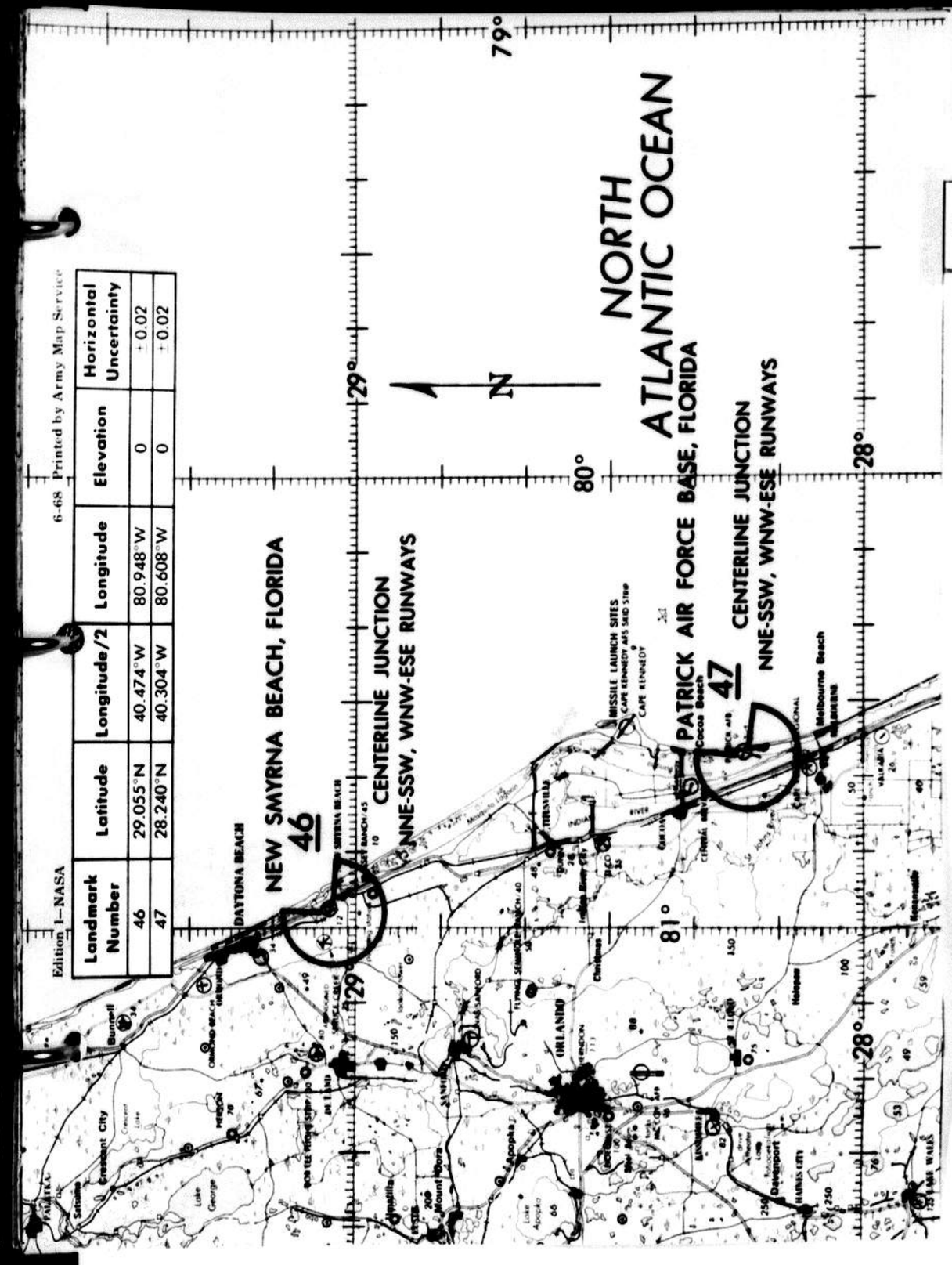
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
43	32.298°N	40.334°W	80.667°W	0.00	±0.02



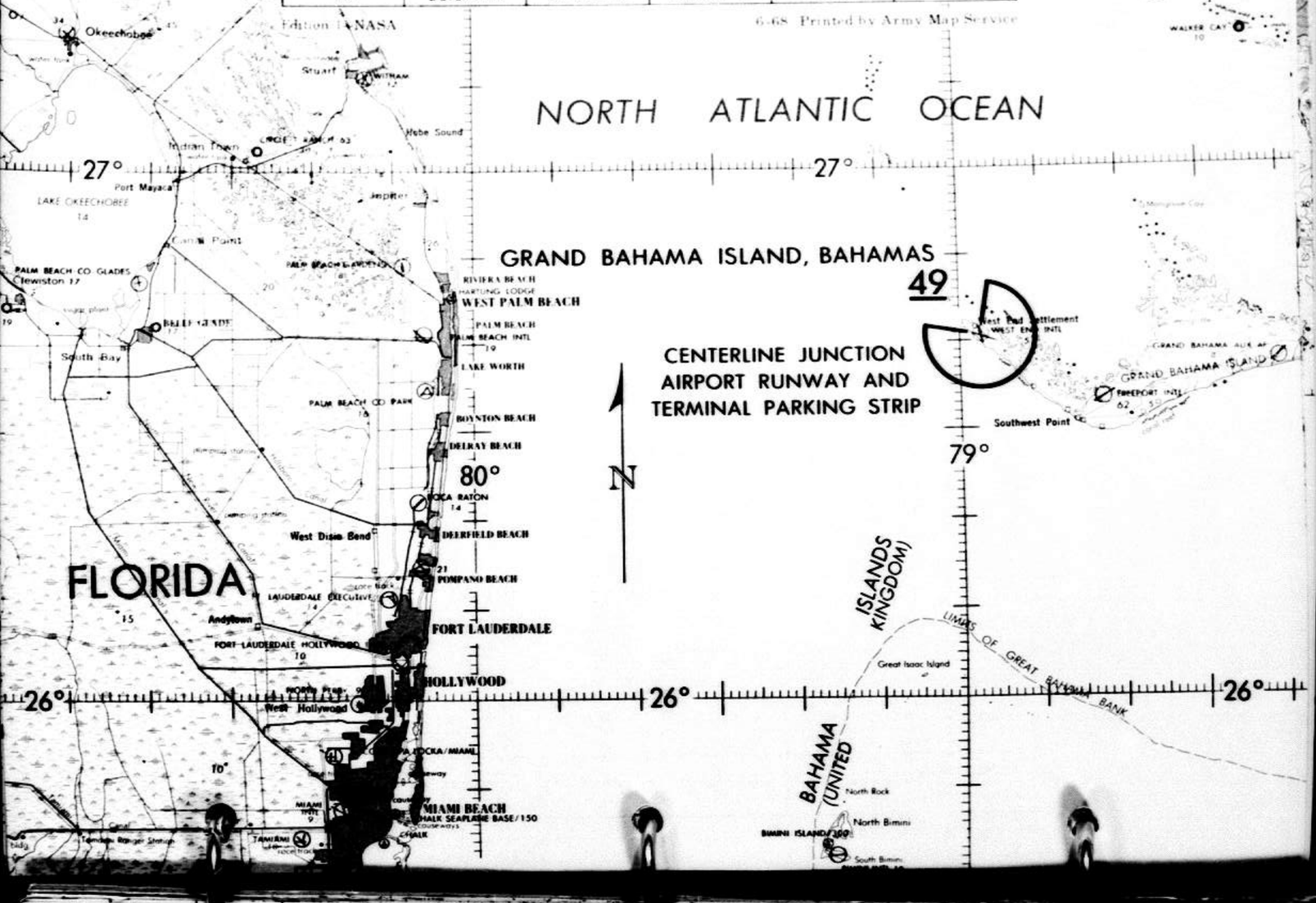
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
44	31.150°N	40.698°W	81.395°W	0	±0.02
45	30.395°N	40.710°W	81.419°W	0	±0.02

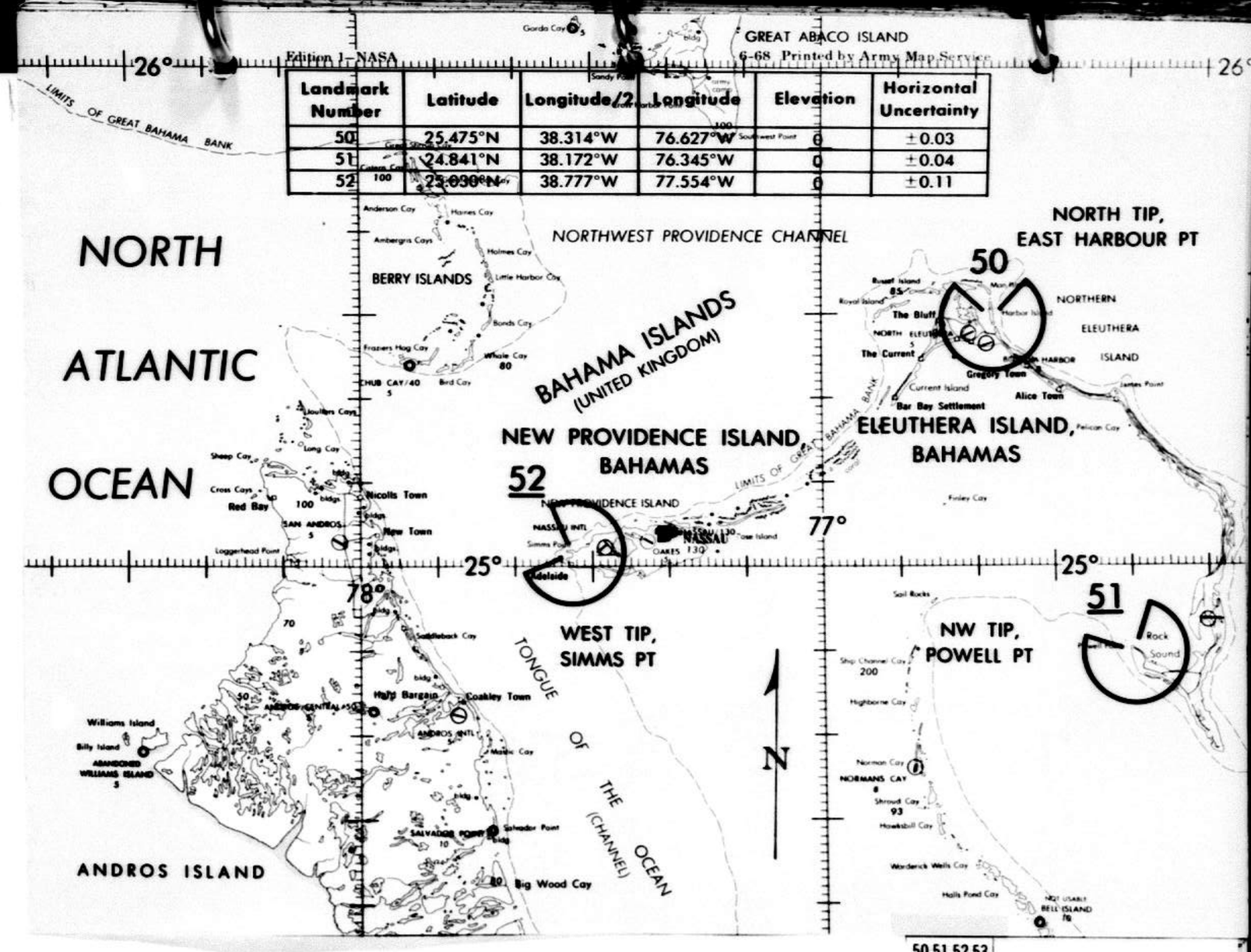


Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
46	29.055°N	40.474°W	80.948°W	0	±0.02
47	28.240°N	40.304°W	80.608°W	0	±0.02

38,39	36	33	28,29	26	24	22	20	18	15,16	12	49	44,45	41,42
40,48	37	34,35	30,31,32	27	25	23	21		17	13,14	50,51,52	46,47	43

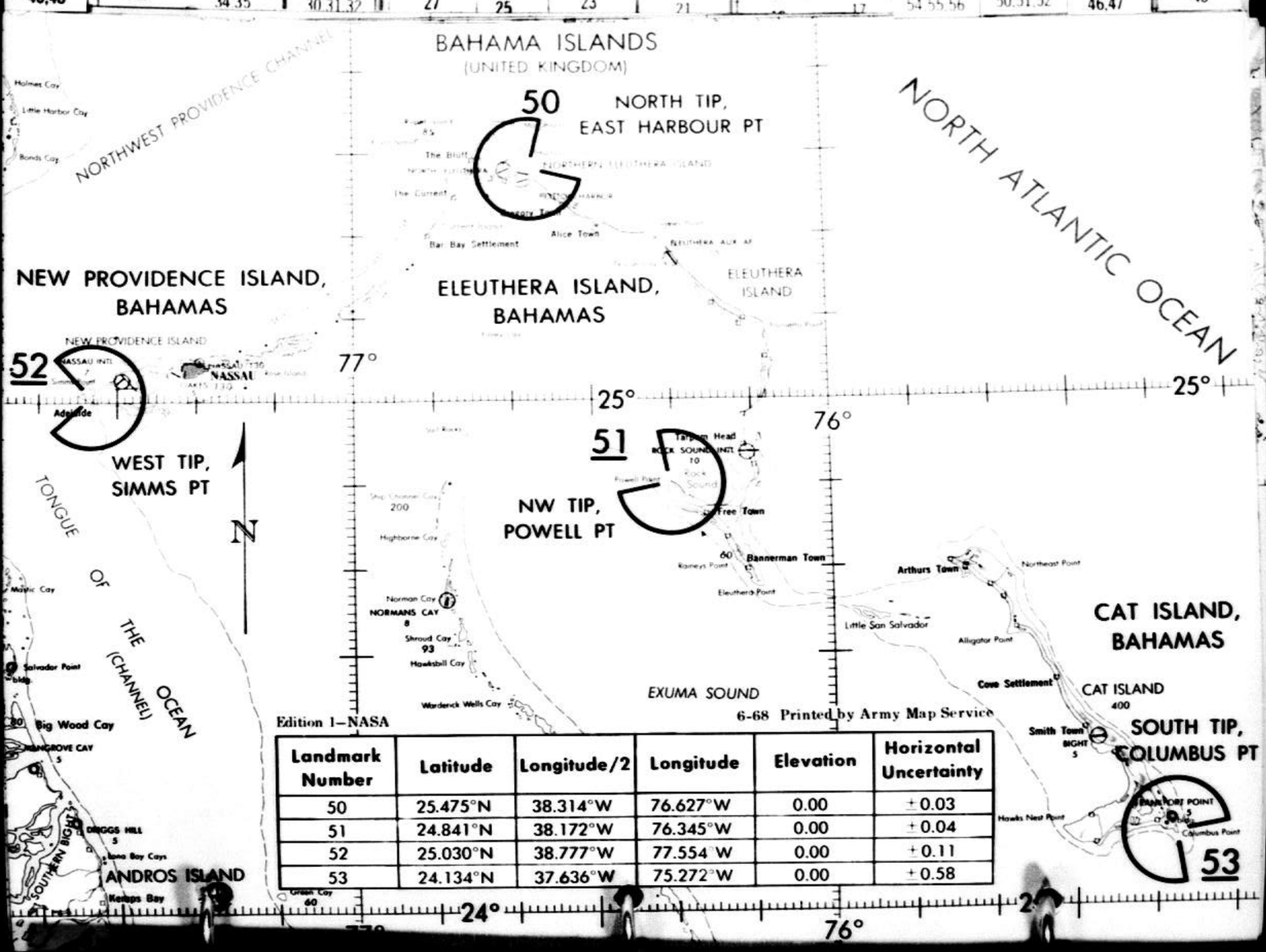
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
49	26.694 N	39.489 W	78.978 W	0.00	±0.03





Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
50	25.475°N	38.314°W	76.627°W	0	±0.03
51	24.841°N	38.172°W	76.345°W	0	±0.04
52	25.030°N	38.777°W	77.554°W	0	±0.11

50,51,52,53
54,55,56



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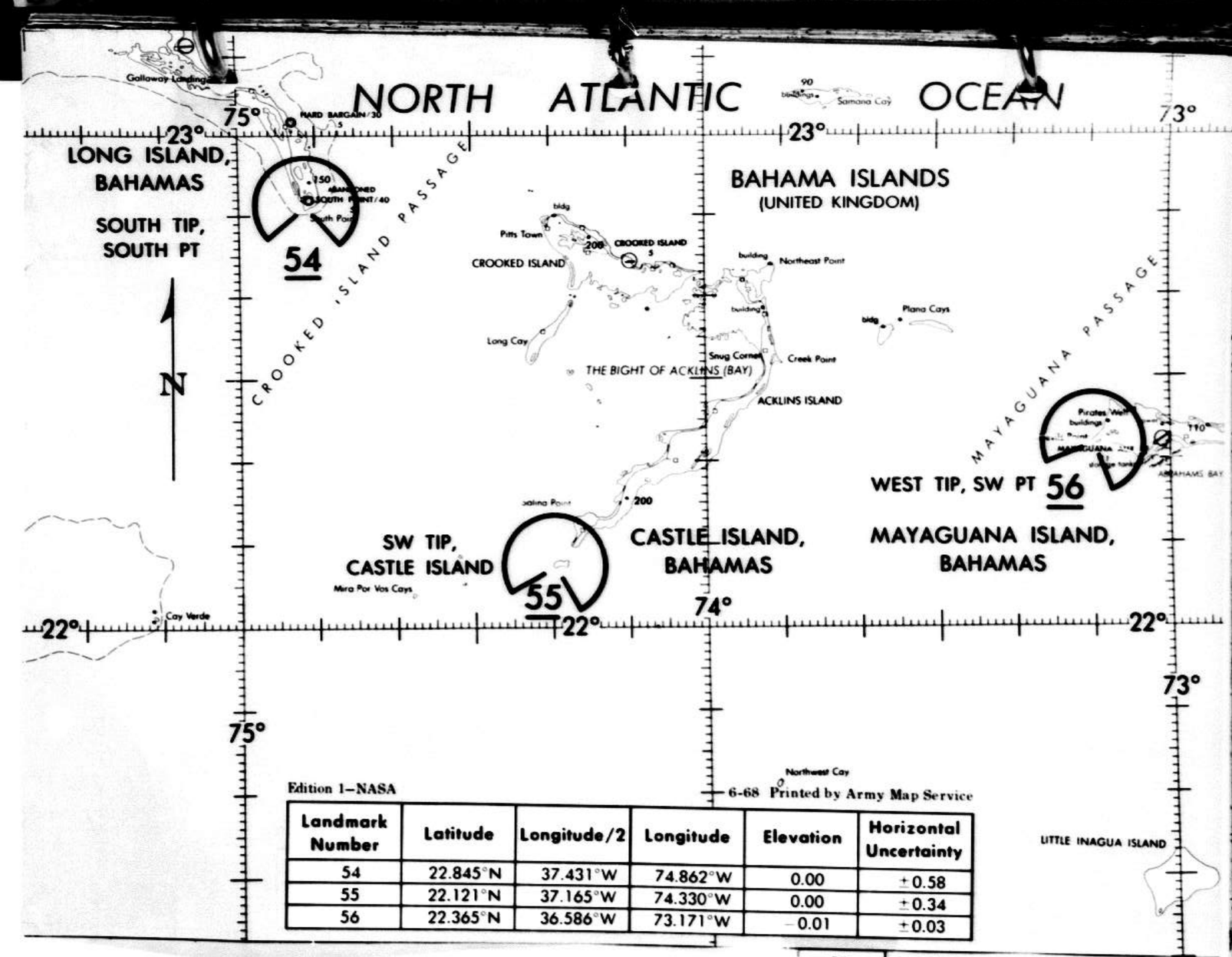
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
50	25.475°N	38.314°W	76.627°W	0.00	±0.03
51	24.841°N	38.172°W	76.345°W	0.00	±0.04
52	25.030°N	38.777°W	77.554°W	0.00	±0.11
53	24.134°N	37.636°W	75.272°W	0.00	±0.58



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Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
54	22.845°N	37.431°W	74.862°W	0.00	±0.58
55	22.121°N	37.165°W	74.330°W	0.00	±0.34
56	22.365°N	36.586°W	73.171°W	−0.01	±0.03

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
57	21.108 N	36.838 W	73.675 W	0.00	±0.29

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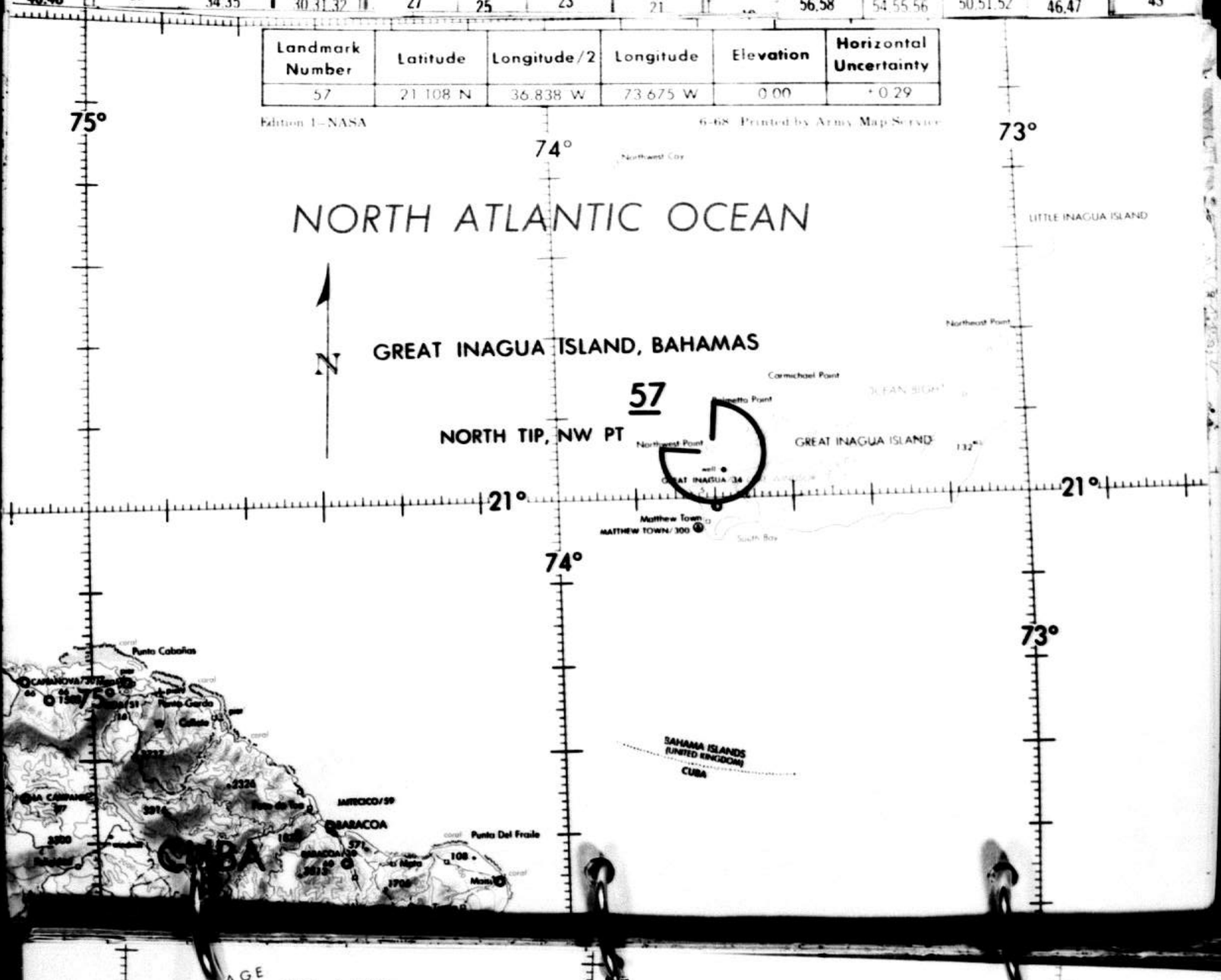

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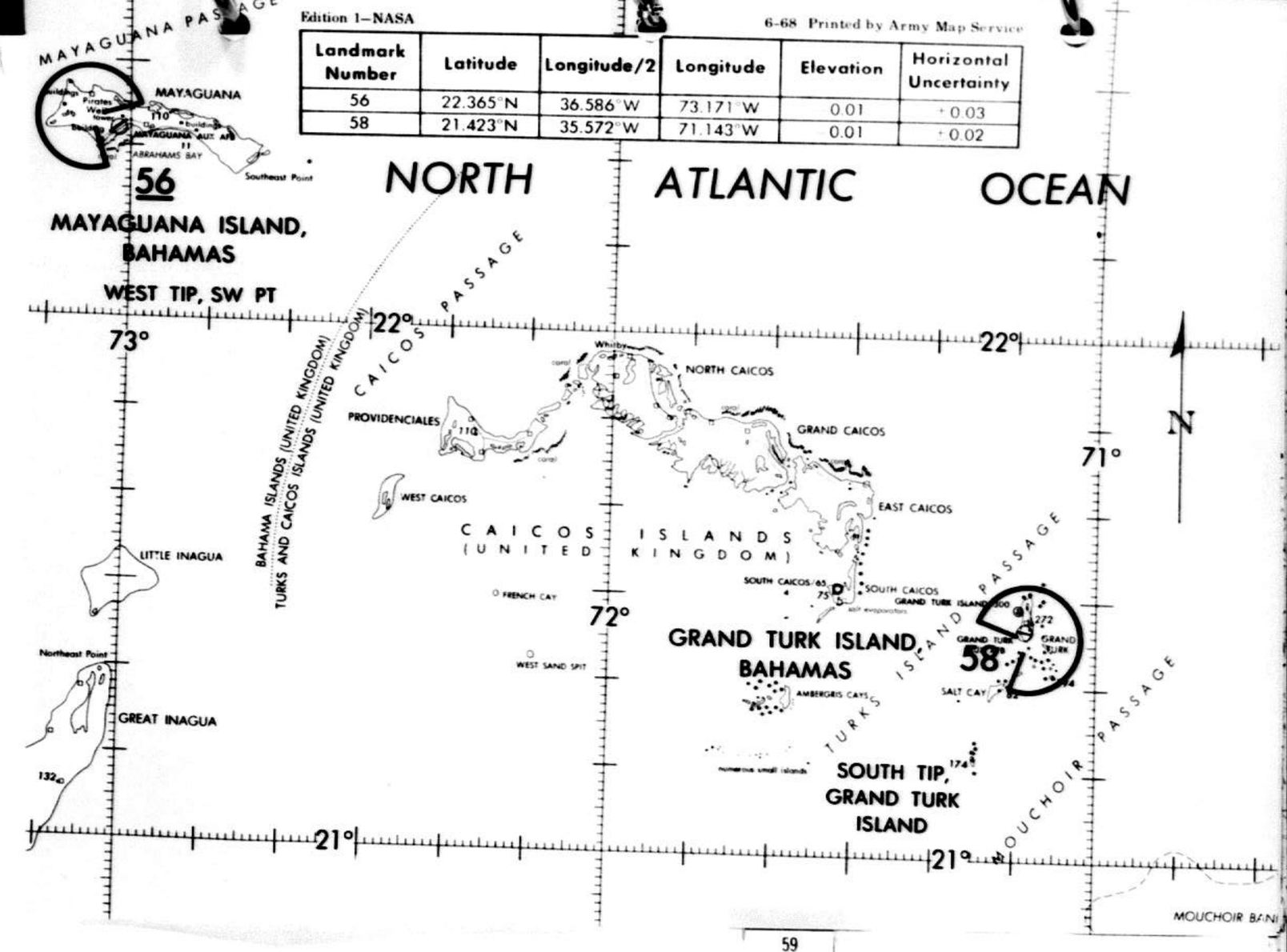
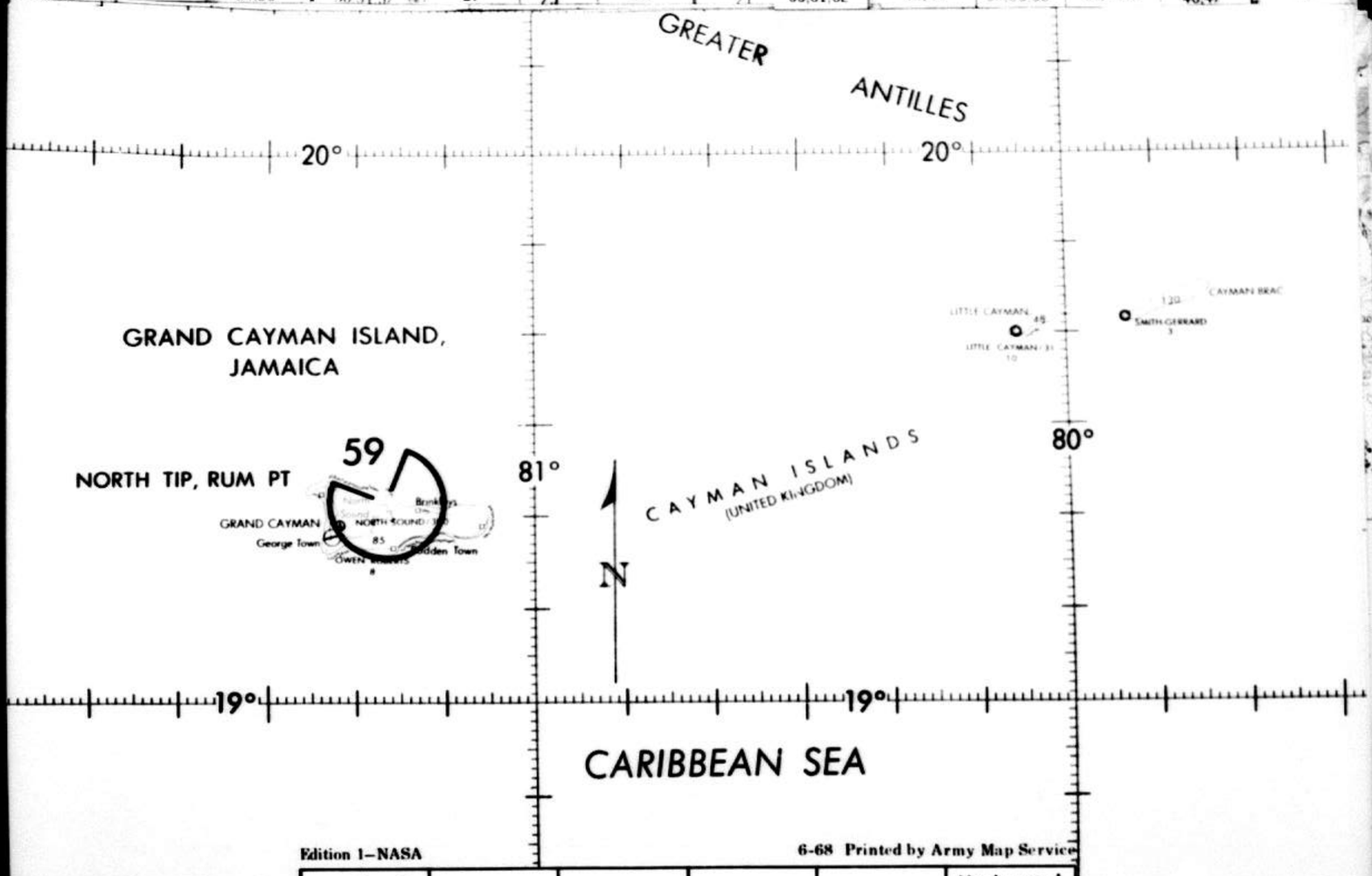
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
56	22.365°N	36.586°W	73.171°W	0.01	±0.03
58	21.423°N	35.572°W	71.143°W	0.01	±0.02





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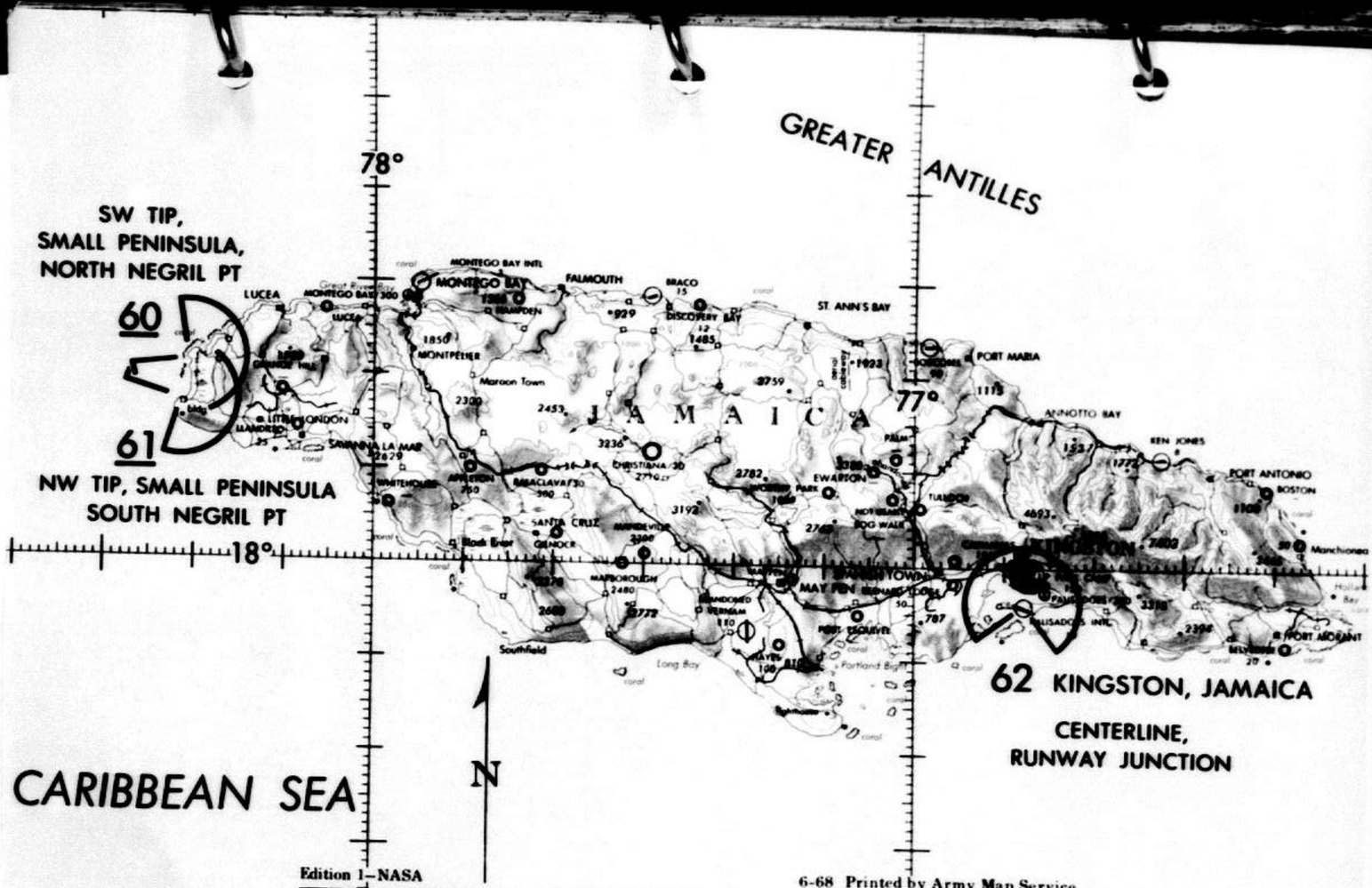
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
59	19.374°N	40.636°W	81.272°W	0.00	±0.07



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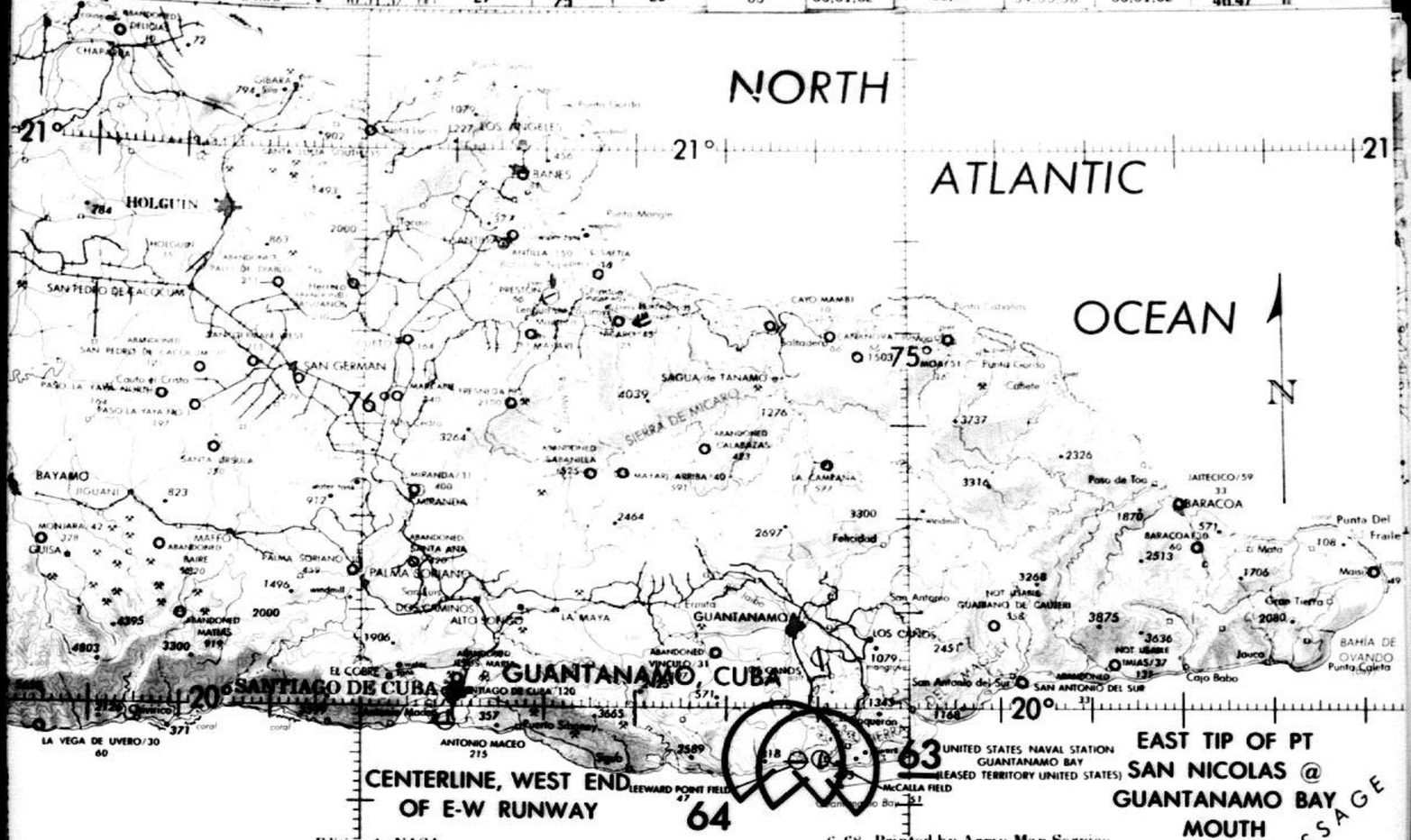
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
60	18.354°N	39.172°W	78.344°W	0.00	±0.03
61	18.266°N	39.184°W	78.368°W	0.00	±0.03
62	17.940°N	38.388°W	76.775°W	0.00	±0.03



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Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
63	19.911°N	37.595°W	75.190°W	0.00	±0.03
64	19.911°N	37.583°W	75.166°W	0.00	±0.03

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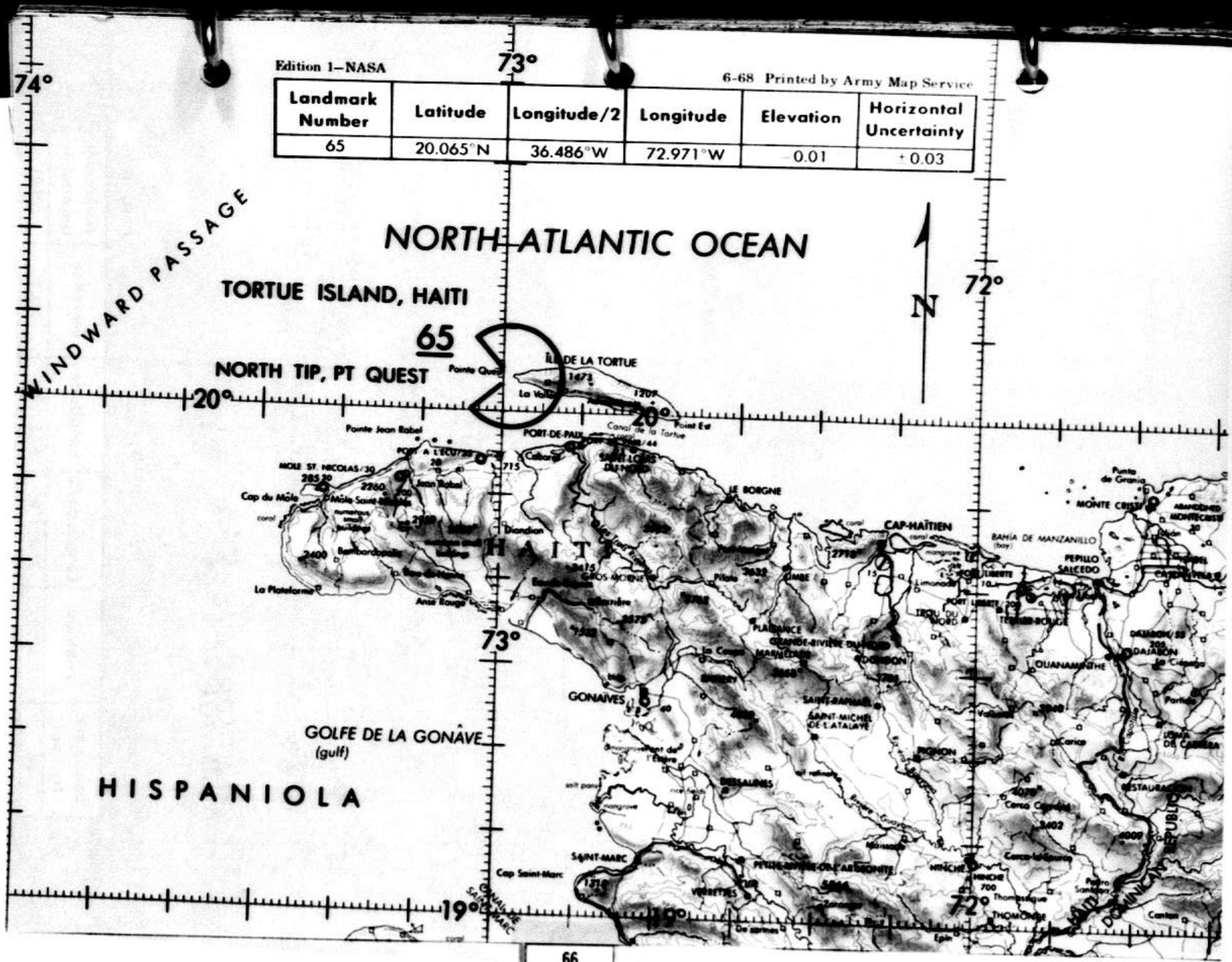
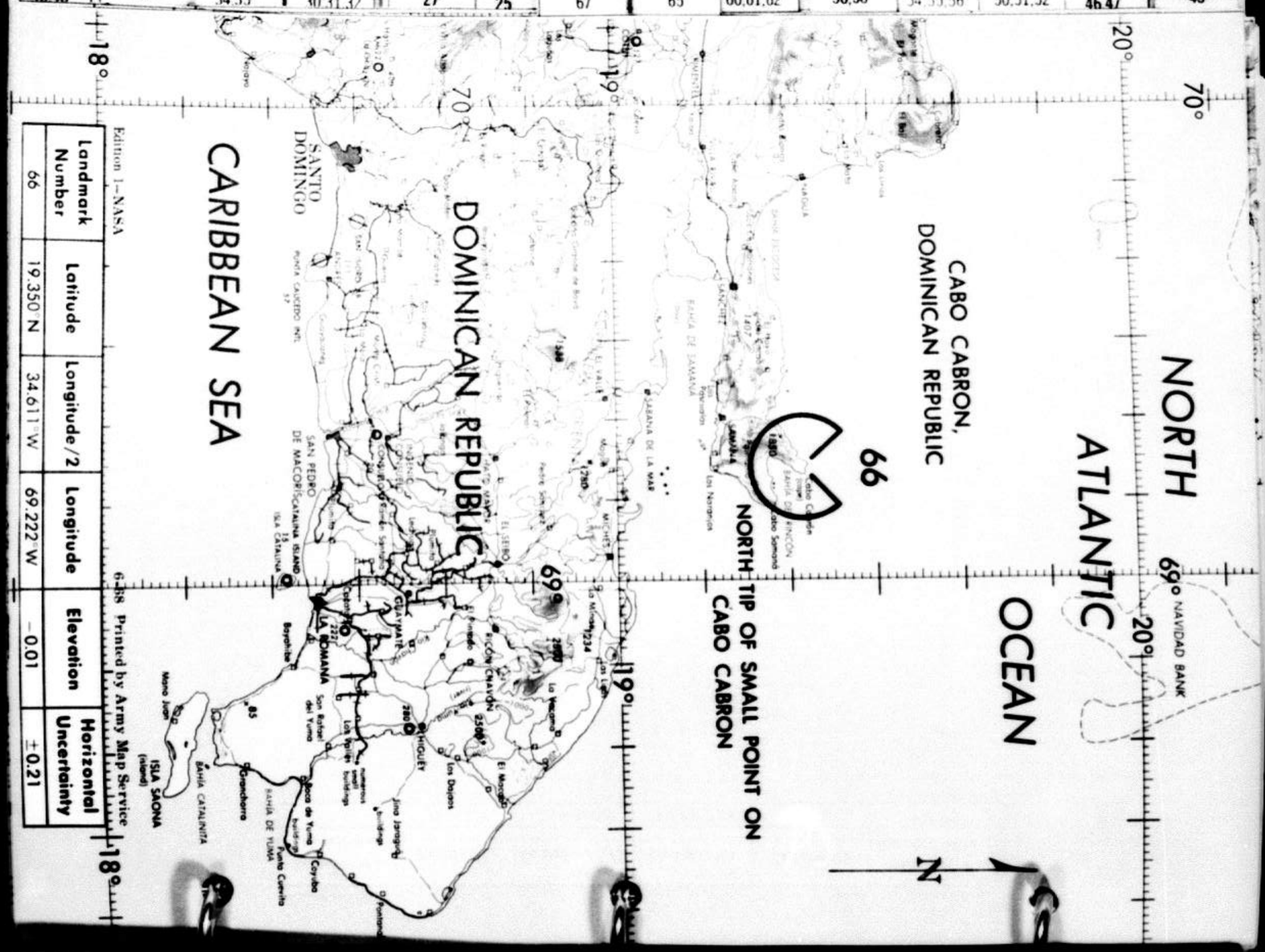
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
65	20.065°N	36.486°W	72.971°W	0.01	±0.03





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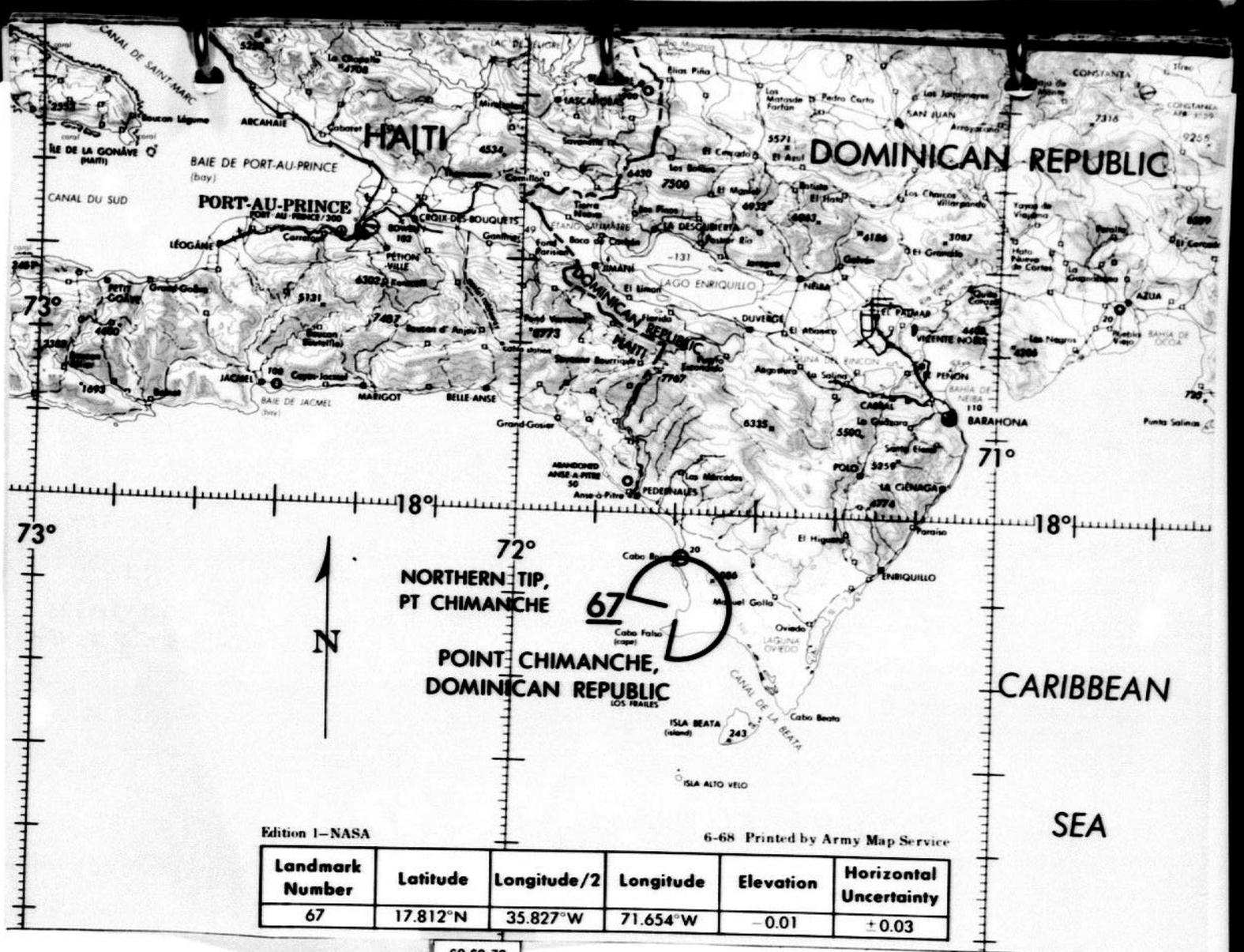
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
66	19.350 N	34.611°W	69.222°W	−0.01	±0.21

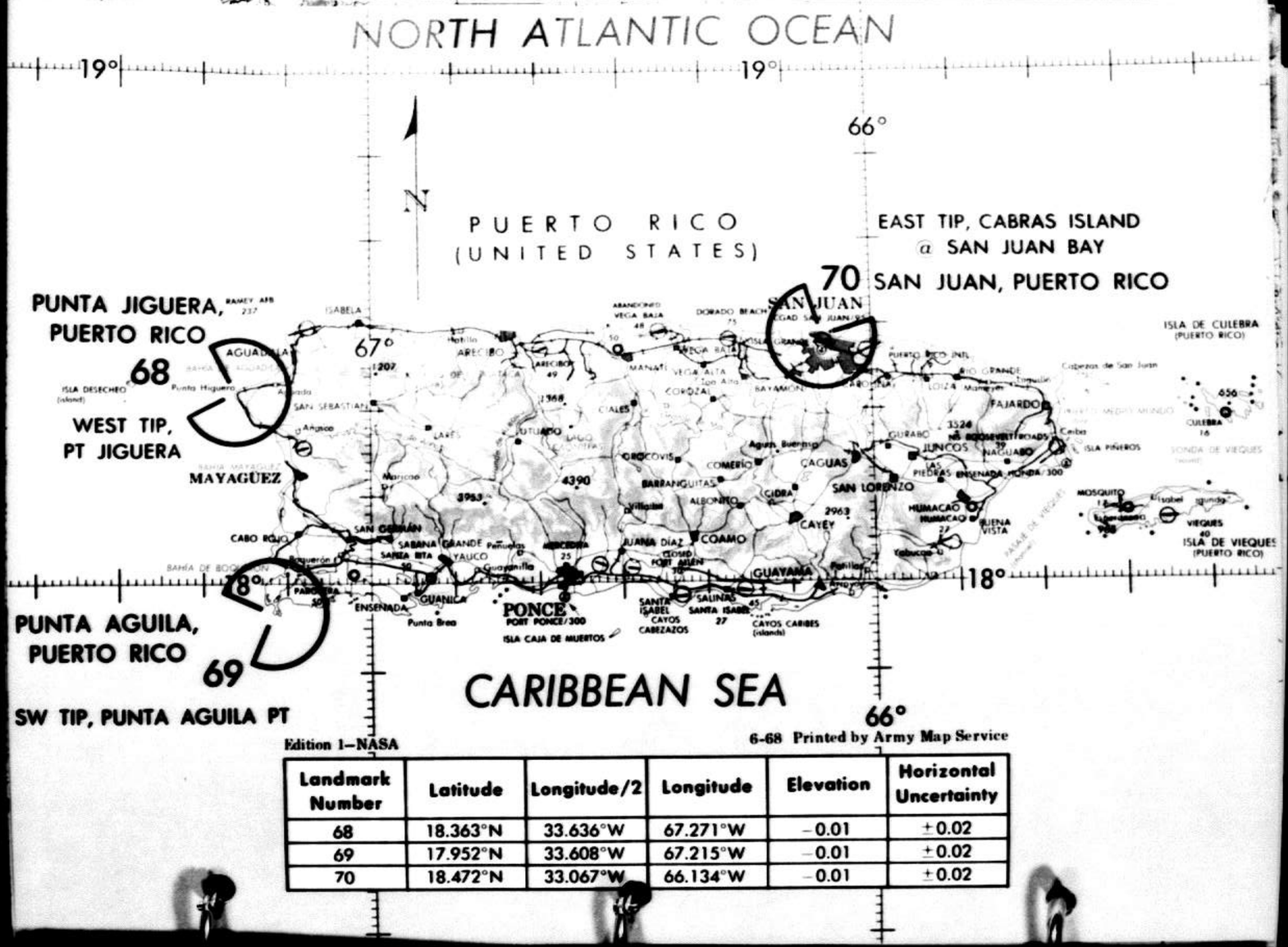
6-68 Printed by Army Map Service



Edition 1—NASA

6-68 Printed by Army Map Service

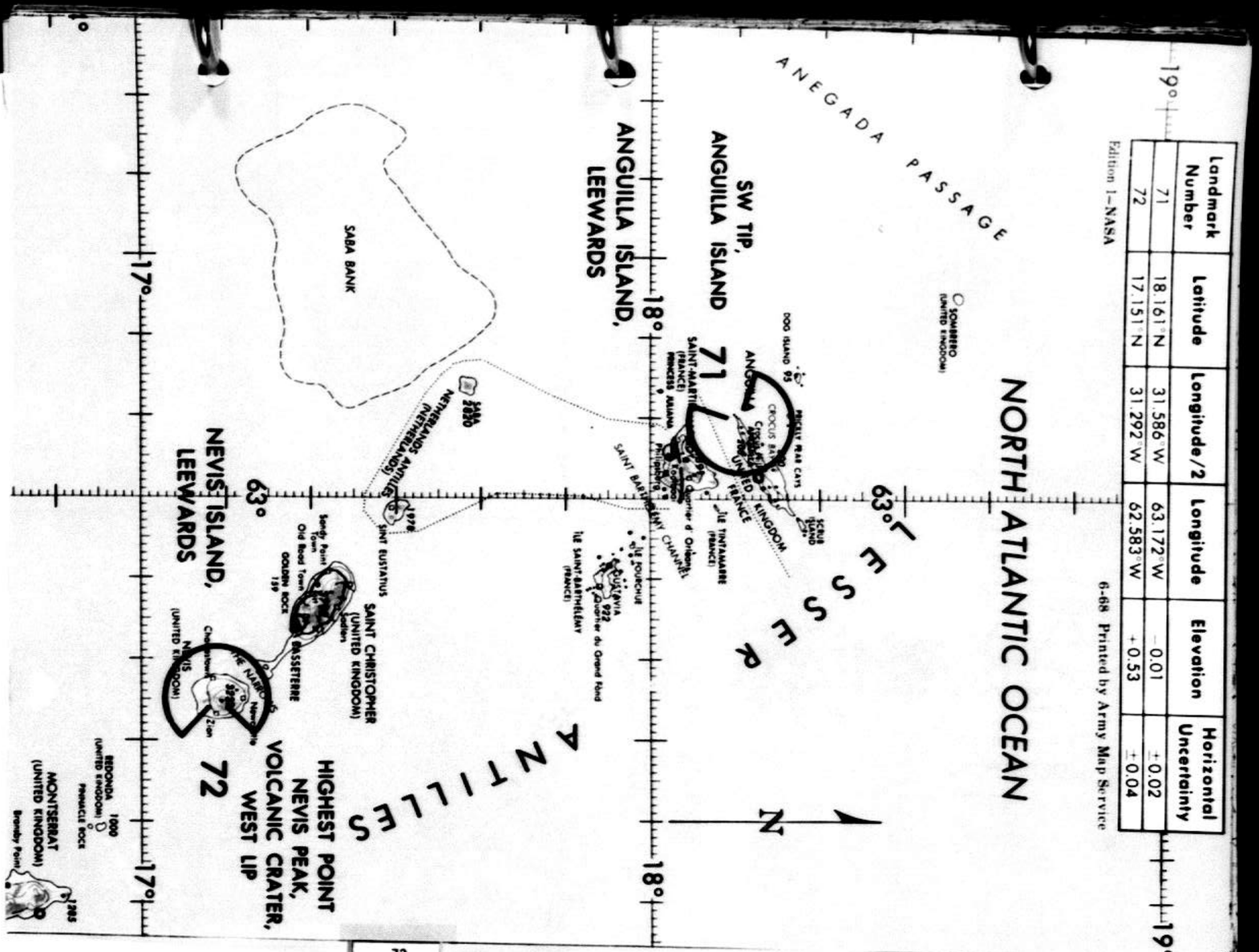
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
67	17.812°N	35.827°W	71.654°W	−0.01	±0.03



Edition 1—NASA

6-68 Printed by Army Map Service

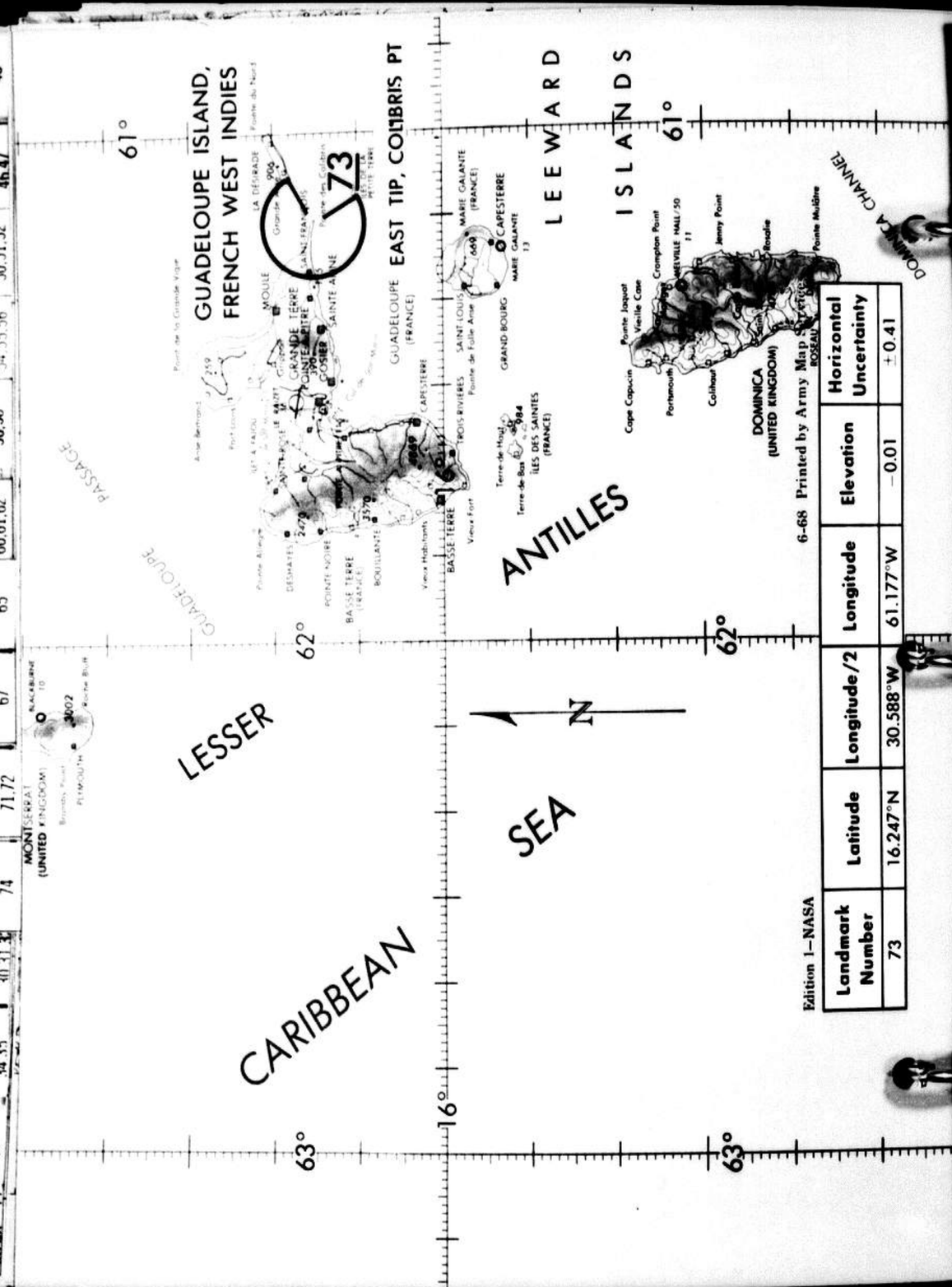
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
68	18.363°N	33.636°W	67.271°W	−0.01	±0.02
69	17.952°N	33.608°W	67.215°W	−0.01	±0.02
70	18.472°N	33.067°W	66.134°W	−0.01	±0.02



Edition 1—NASA

6-68 Printed by Army Map Service

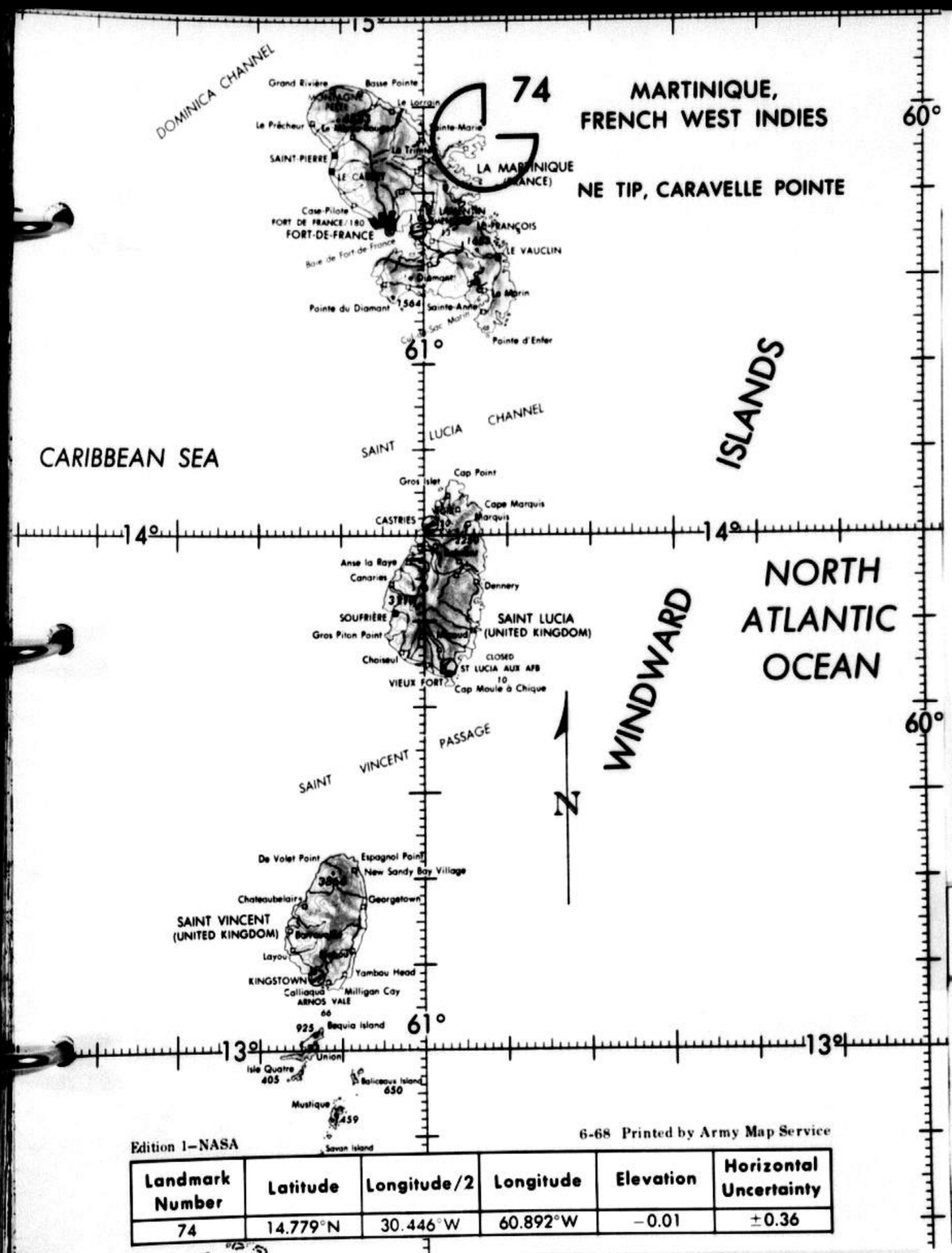
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
71	18.161°N	31.586°W	63.172°W	−0.01	±0.02
72	17.151°N	31.292°W	62.583°W	+0.53	±0.04



Edition 1–NASA

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
73	16.247°N	30.588°W	61.177°W	−0.01	±0.41

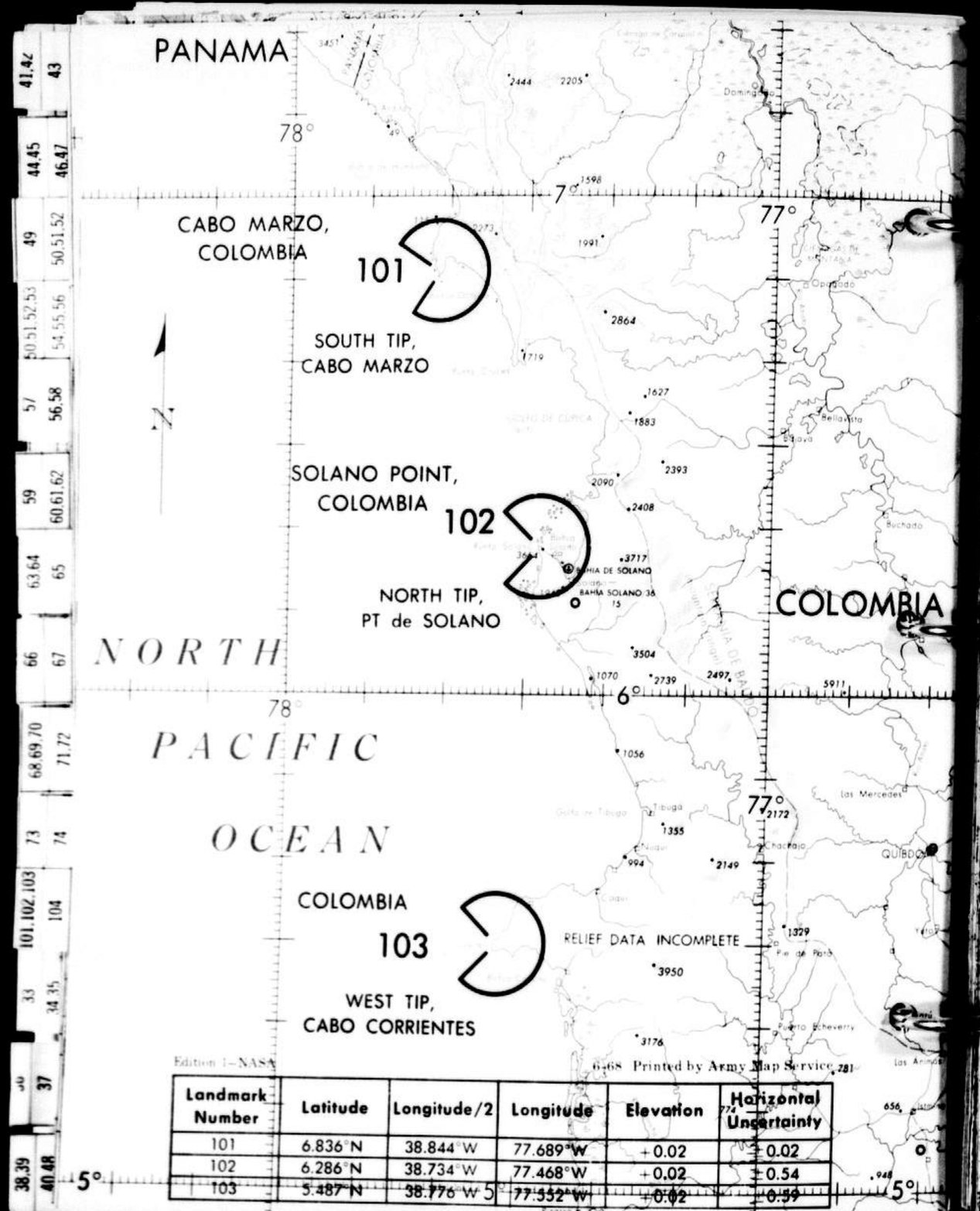
6-68 Printed by Army Map Service



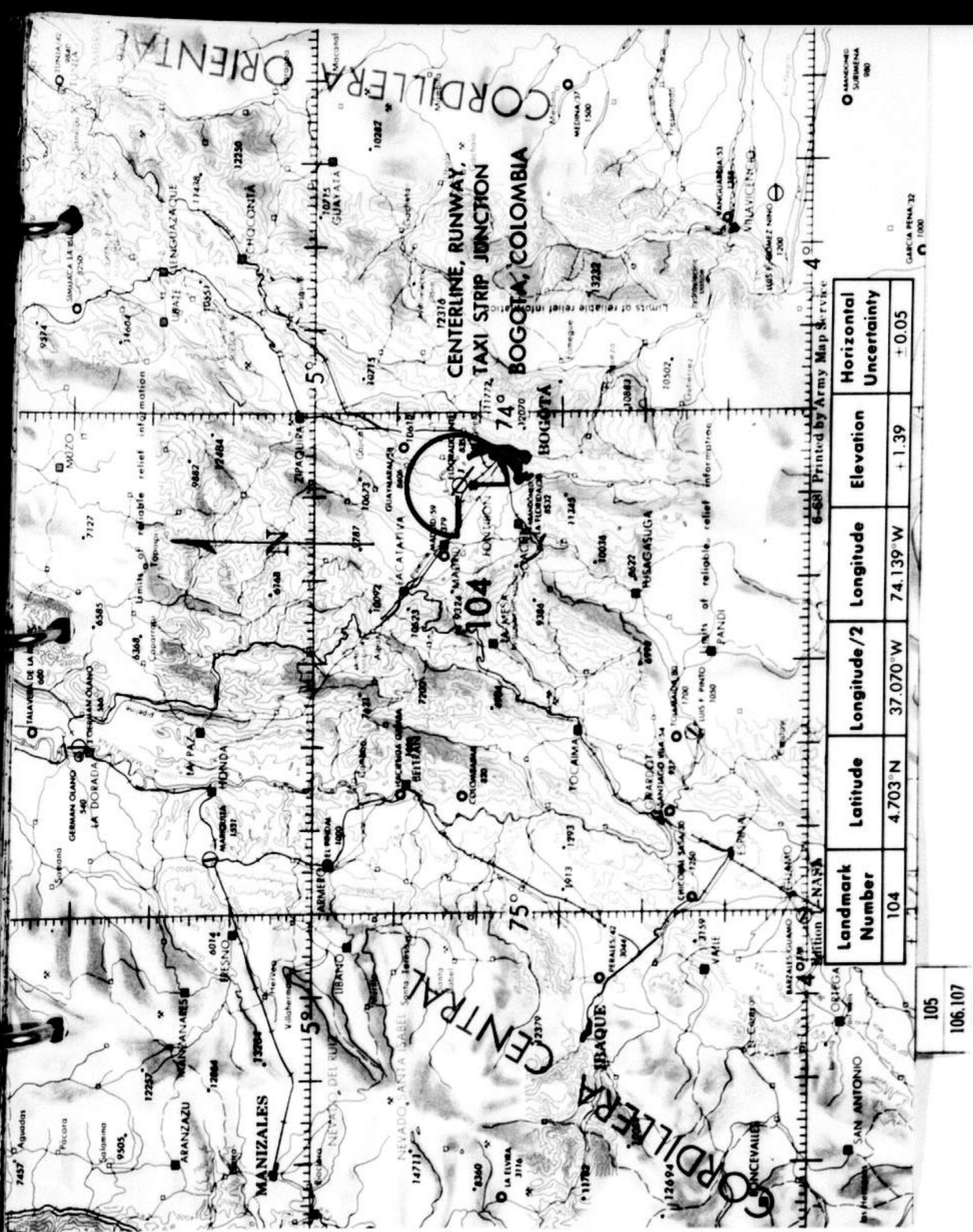
Edition 1–NASA

6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
74	14.779°N	30.446°W	60.892°W	−0.01	±0.36



Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
101	6.836°N	38.844°W	77.689°W	+0.02	±0.02
102	6.286°N	38.734°W	77.468°W	+0.02	±0.54
103	5.487°N	38.776°W	77.552°W	+0.02	±0.59

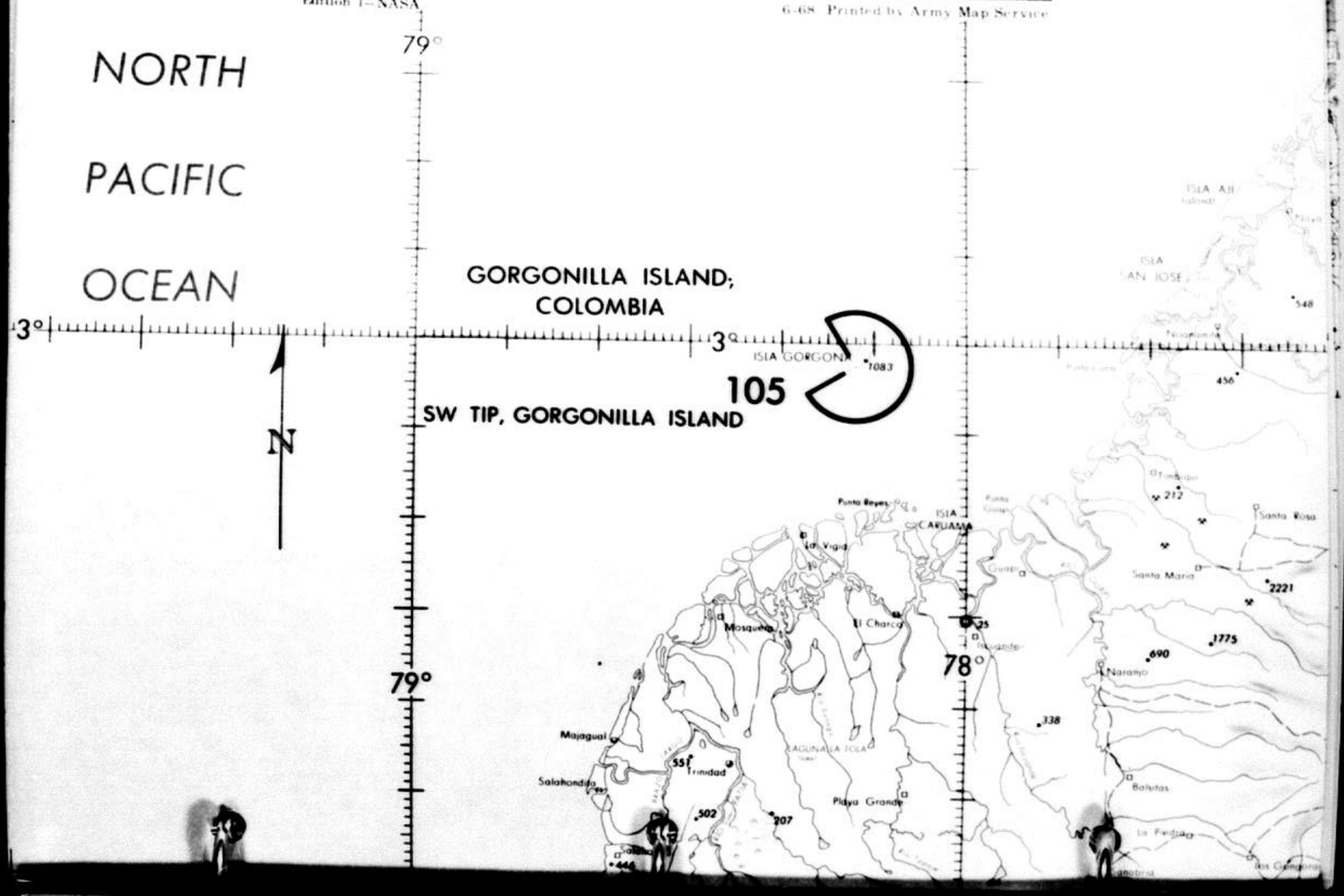


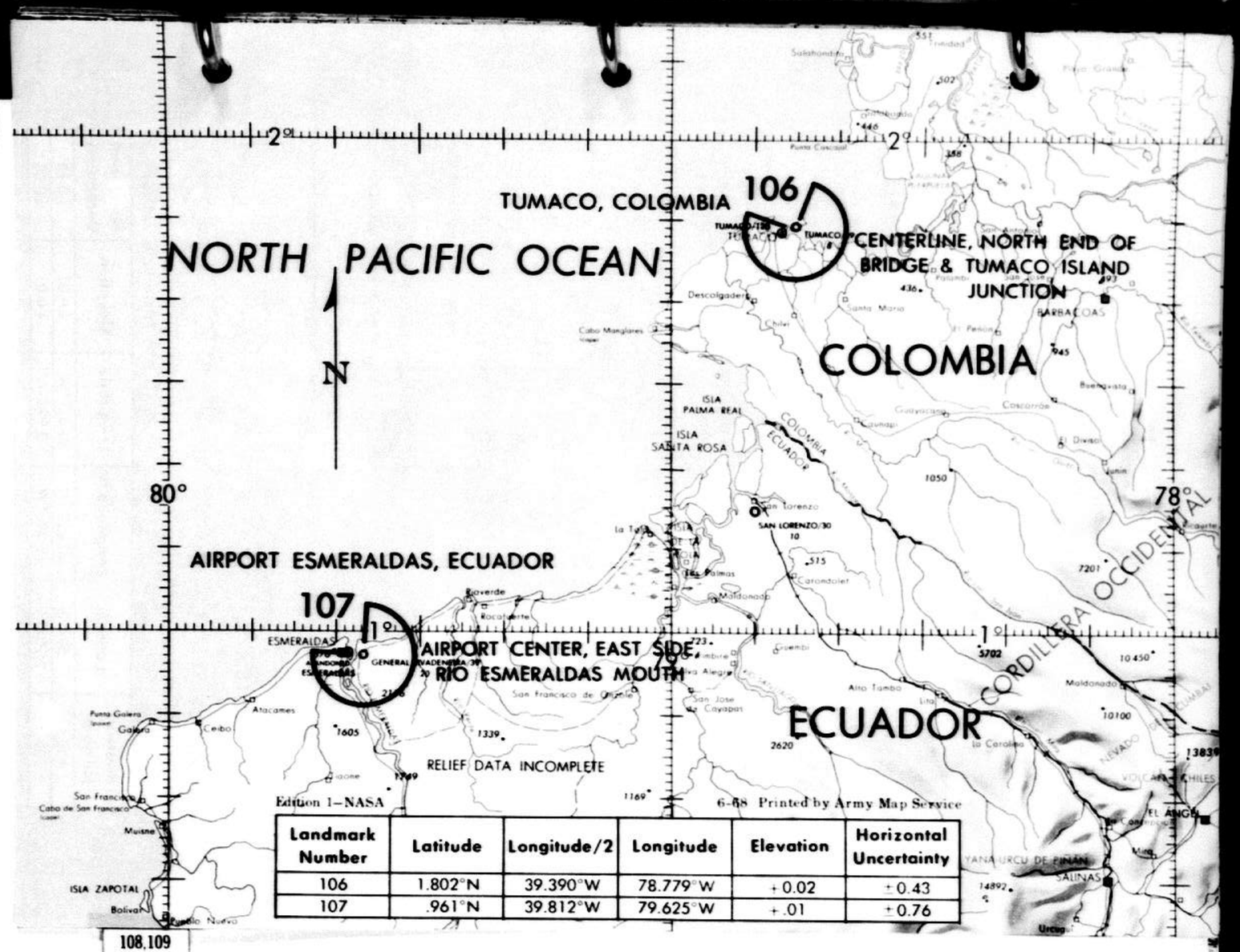
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
104	4.703°N	37.070°W	74.139°W	+1.39	±0.05

105
106.107

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
105	2.935 N	39.118 W	78.236 W	+.01	±0.48

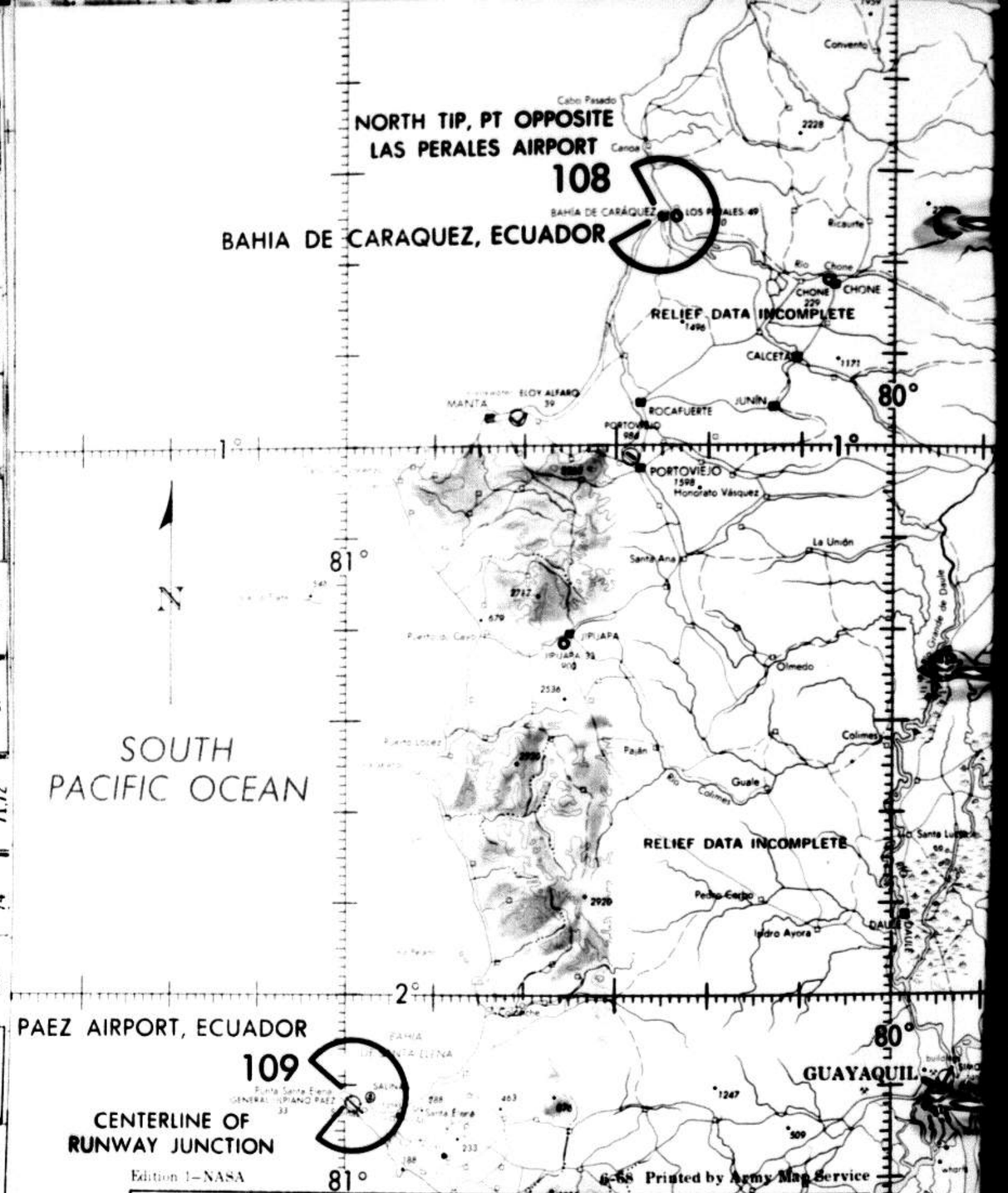
Edition 1—NASA
6-68 Printed by Army Map Service





Edition 1—NASA
6-68 Printed by Army Map Service

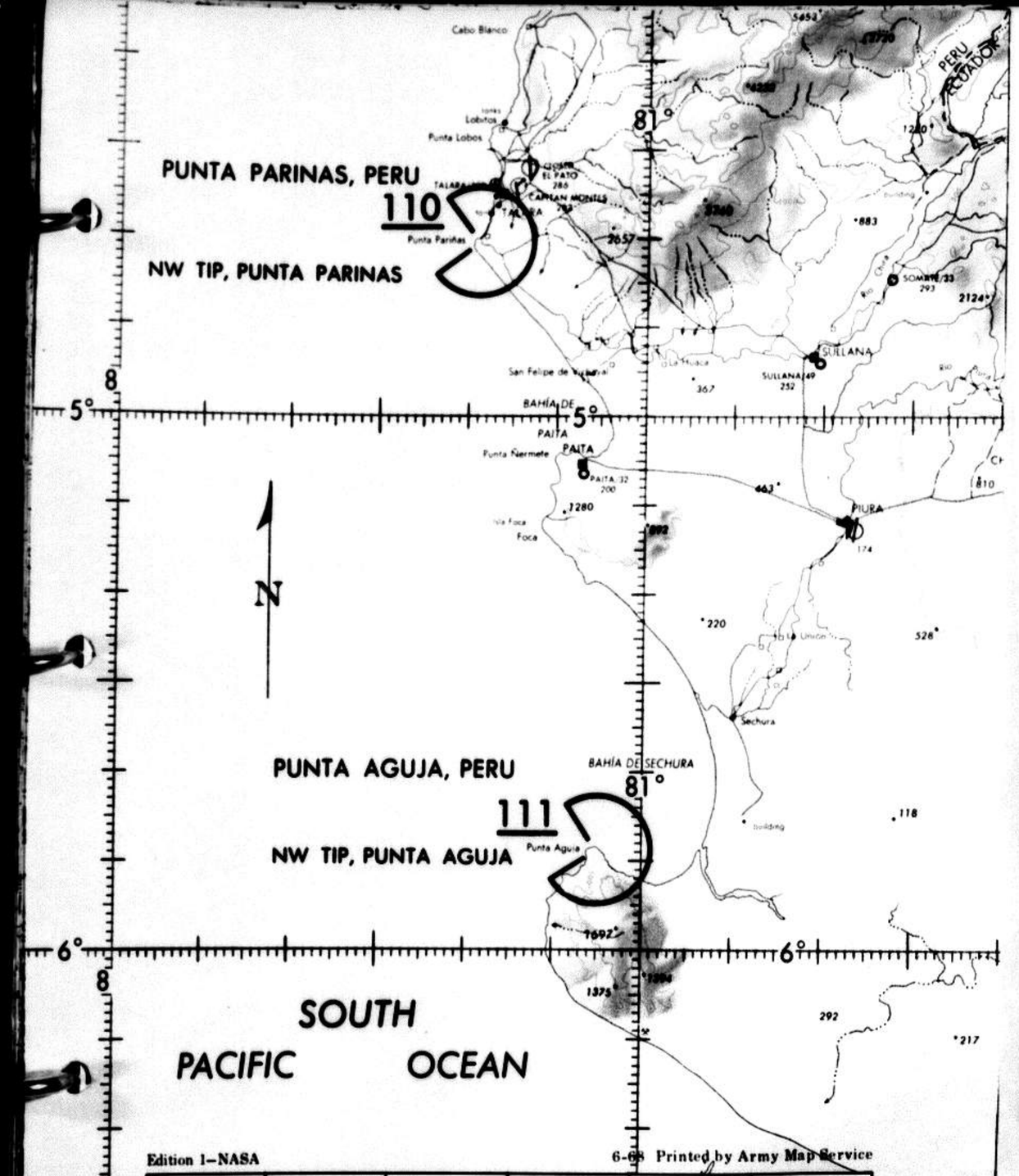
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
106	1.802°N	39.390°W	78.779°W	+0.02	±0.43
107	.961°N	39.812°W	79.625°W	+.01	±0.76



Edition 1–NASA

6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
108	.594°S	40.214°W	80.427°W	+0.01	±0.68
109	2.204°S	40.496°W	80.993°W	+0.01	±0.03



Edition 1–NASA

6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
110	4.668°S	40.664°W	81.328°W	0.00	±0.04
111	5.809°S	40.554°W	81.107°W	0.00	±0.39

TRUJILLO, PERU

HUANCHACO

112

CENTERLINE, RUNWAY, NORTH END

SOUTH PACIFIC OCEAN

POINT FILOMENA, PERU

113

WEST TIP, PT FILOMENA

Edition 1–NASA

6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
112	8.073°S	39.552°W	79.105°W	+0.02	±0.12
113	9.272°S	39.266°W	78.531°W	0.00	±0.22

PUNTA LACHAY, PERU

WEST TIP, PT LACHAY

114

SOUTH PACIFIC OCEAN

RELIEF DATA INCOMPLETE

LIMA, PERU

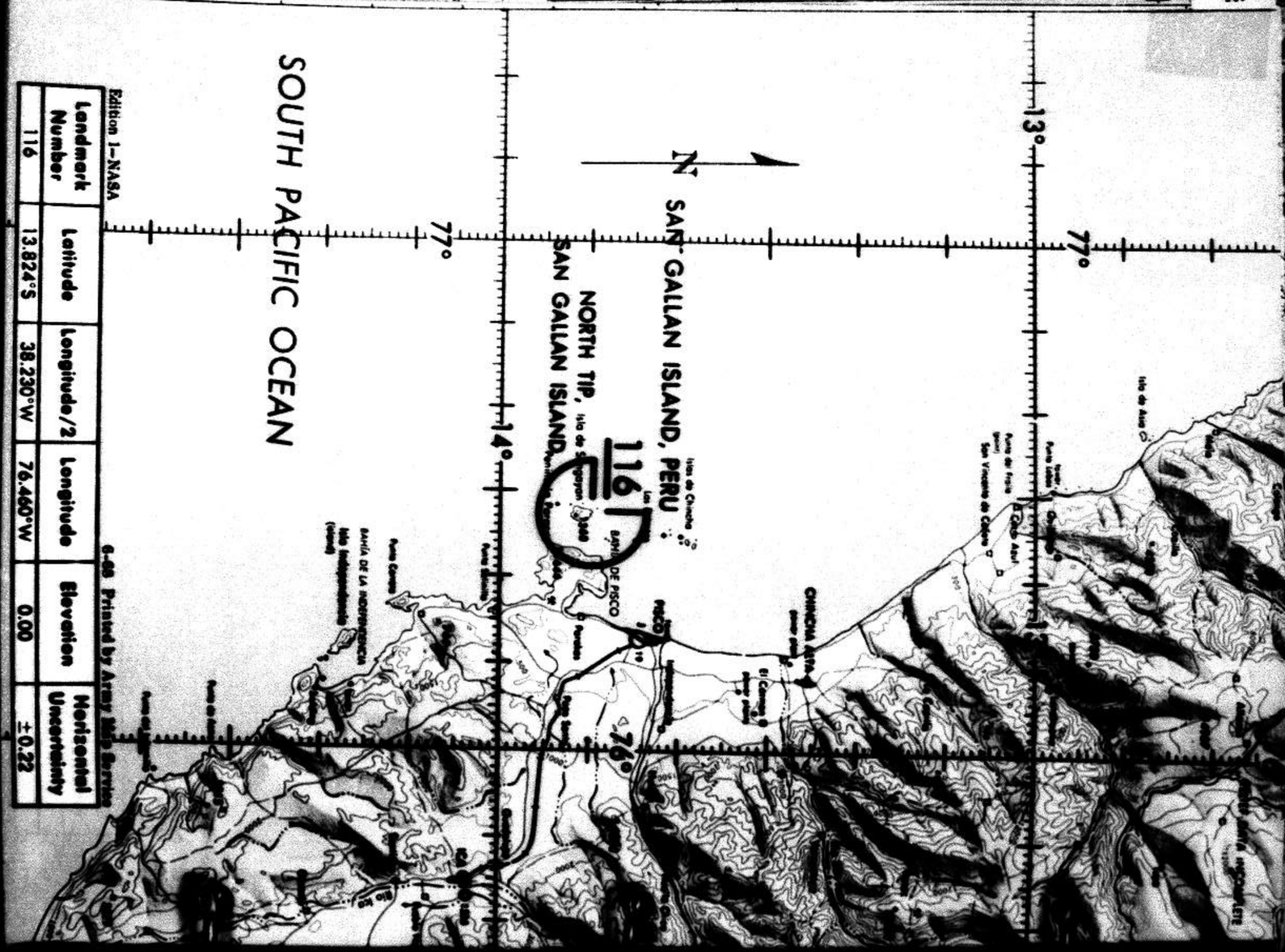
115

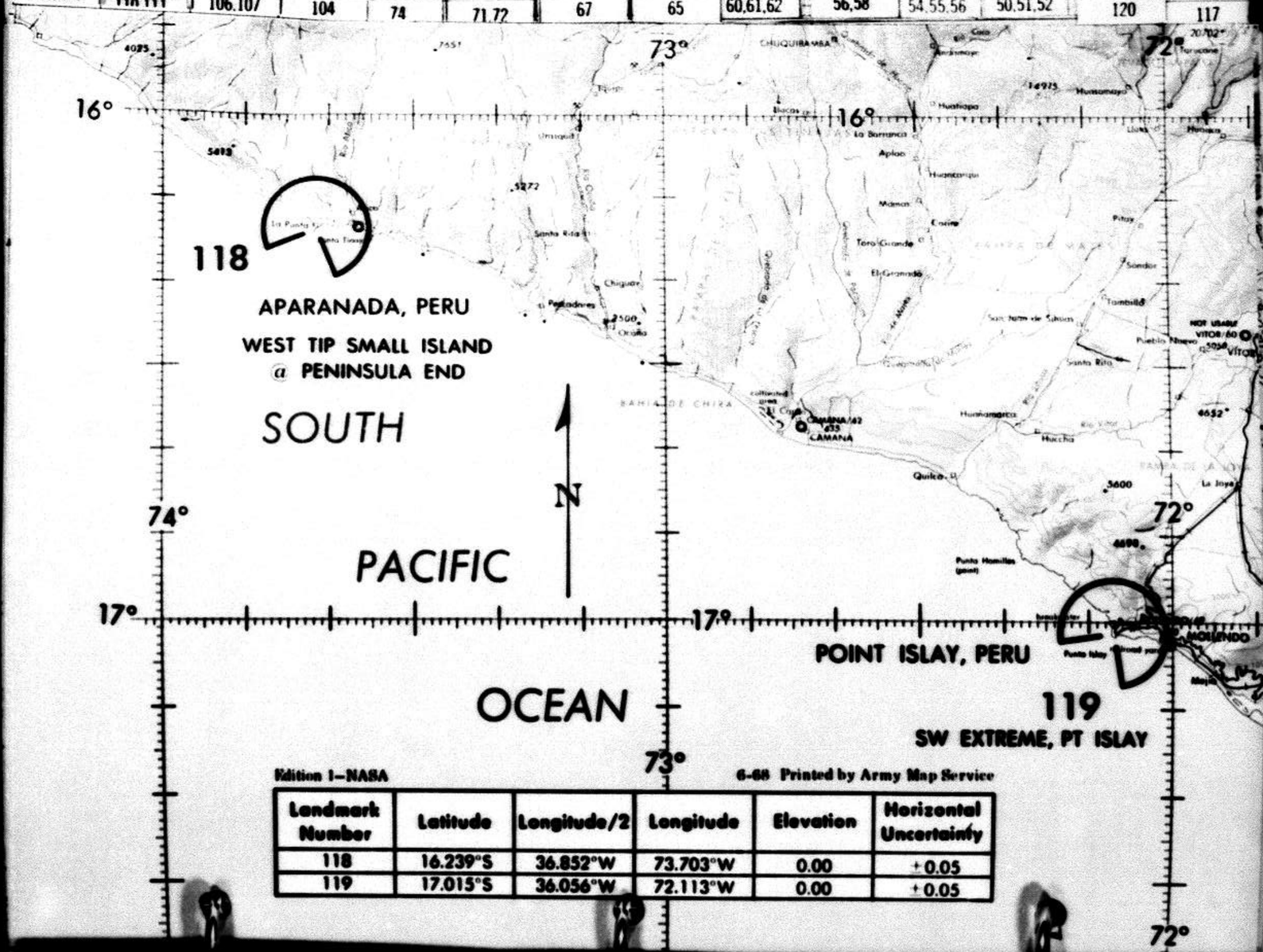
WEST TIP OF LA PUNTA

Edition 1–NASA

6-68 Printed by Army Map Service

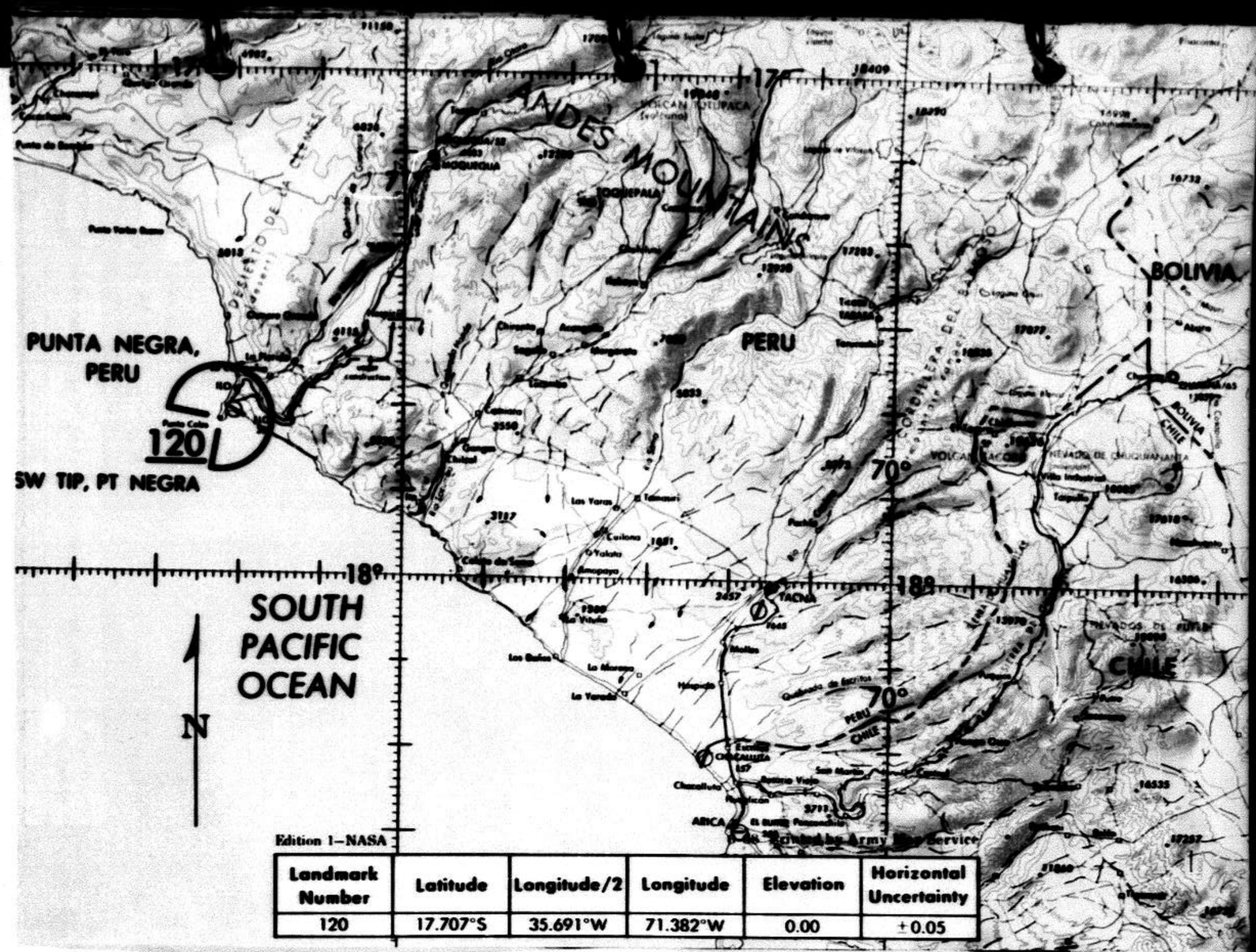
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
114	11.291°S	38.831°W	77.662°W	0.00	±0.98
115	12.072°S	38.584°W	77.168°W	0.00	±0.04


SOUTH PACIFIC OCEAN
N
SAN GALLAN ISLAND, PERU
116
NORTH TIP, SAN GALLAN ISLAND
13°
14°
77°
76°
Isla de Chincha
Isla de Arica
Punta Corrente
BAHÍA DE LA INDEPENDENCIA
Isla Independencia (island)
Punta de Arica
Punta Lomas
Punta de Ollaro
Punta del Lagarto
Punta Parada o San Juan
Punta de Fierro (point)
San Vicente de Cañete
Puerto Cerro
Puerto Cerro
Puerto Bonito
Puerto Bonito
Puerto Bonito



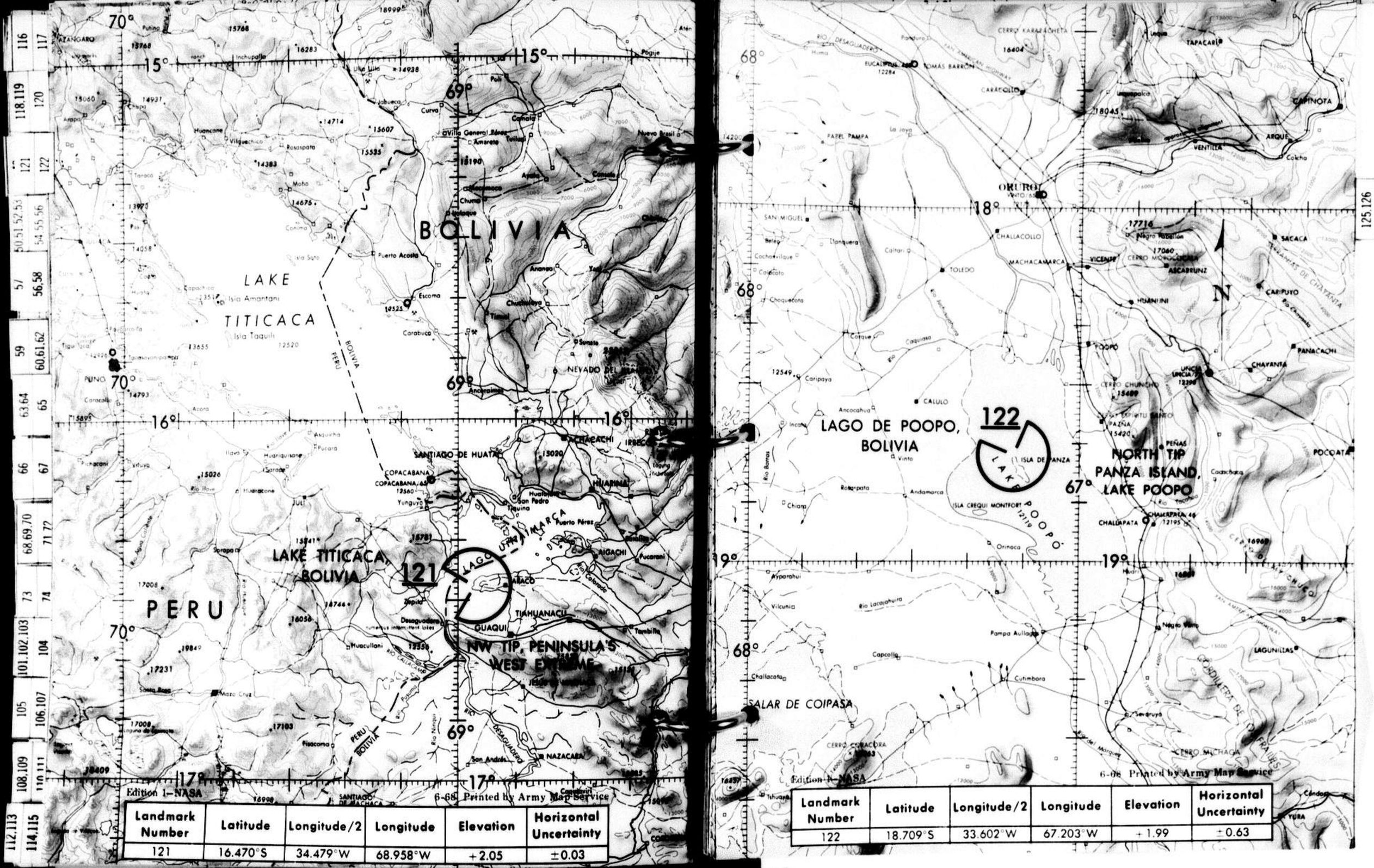
Edition 1—NASA 6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
118	16.239°S	36.852°W	73.703°W	0.00	±0.05
119	17.015°S	36.056°W	72.113°W	0.00	±0.05



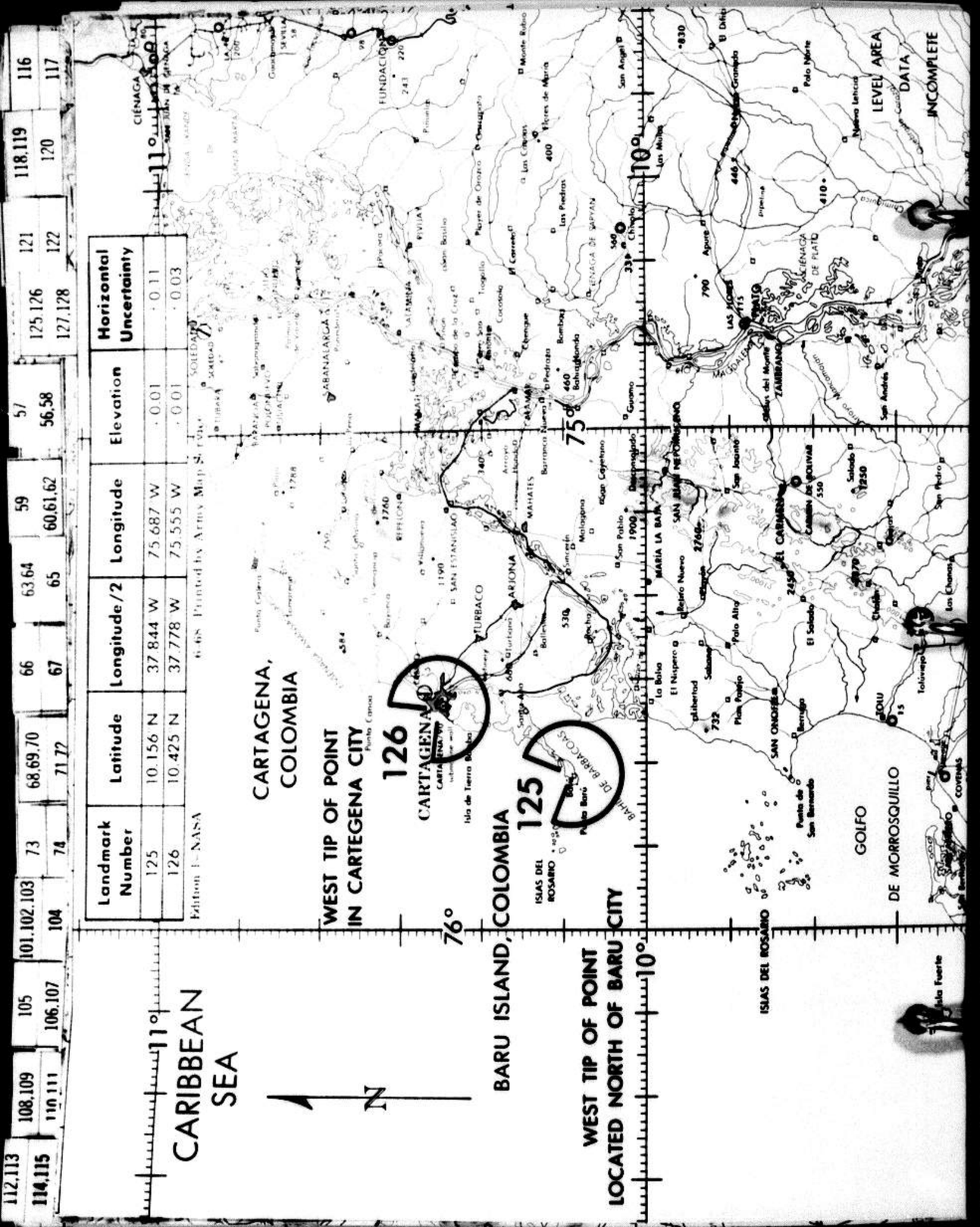
Edition 1—NASA Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
120	17.707°S	35.691°W	71.382°W	0.00	±0.05

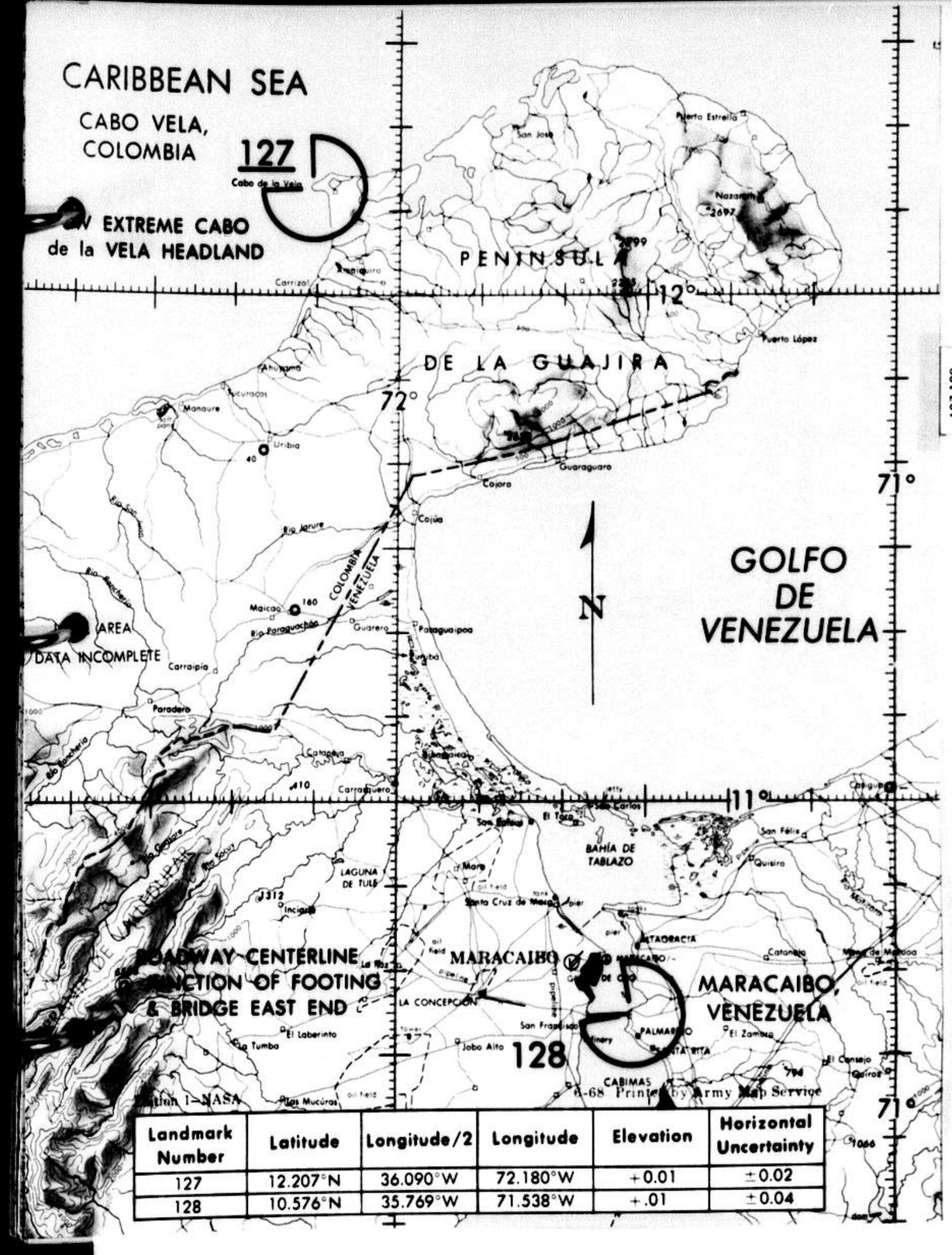


Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
121	16.470°S	34.479°W	68.958°W	+2.05	±0.03

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
122	18.709°S	33.602°W	67.203°W	+1.99	±0.63



Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
125	10.156 N	37.844 W	75.687 W	.001	.011
126	10.425 N	37.778 W	75.555 W	.001	.003

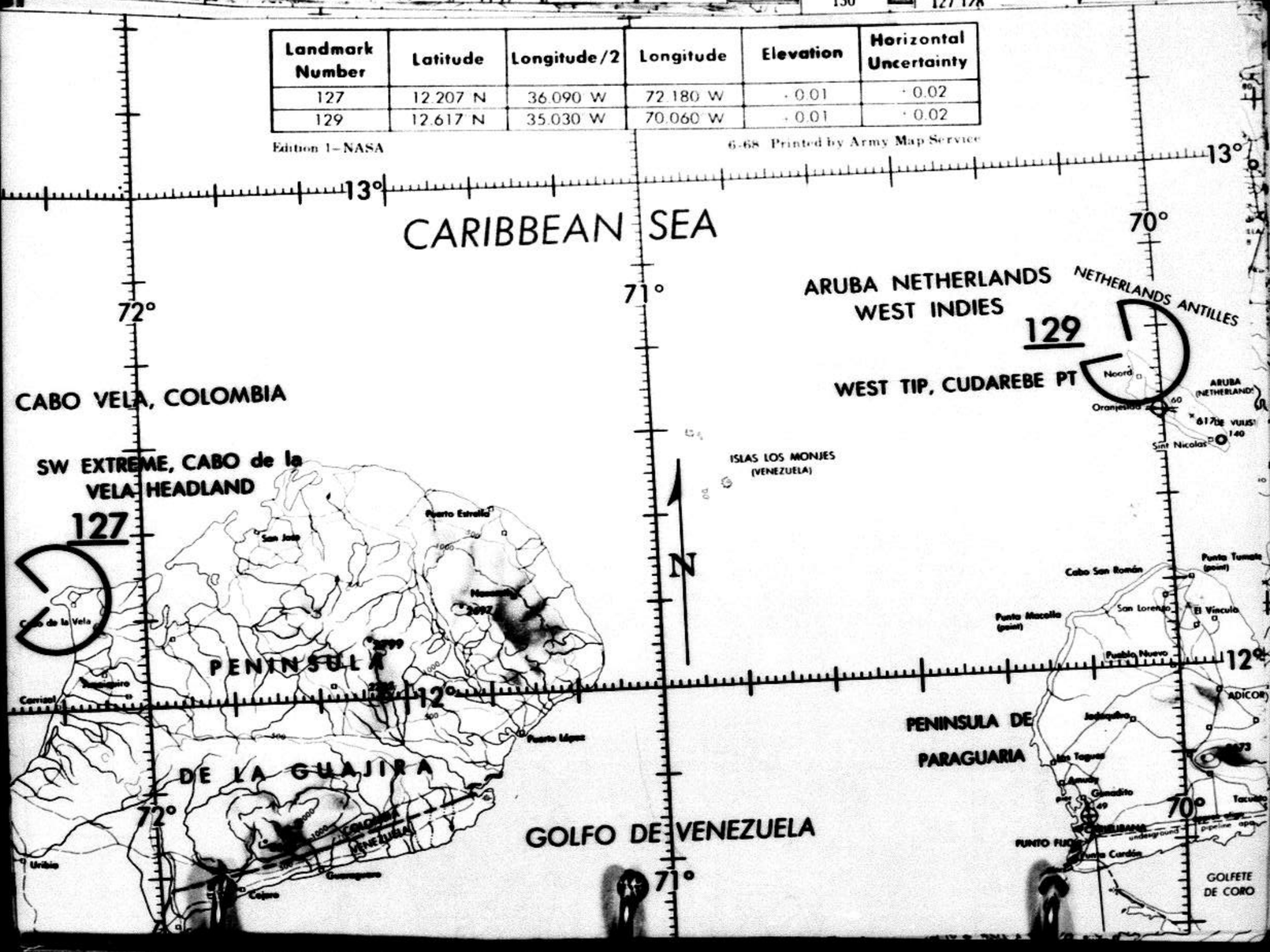


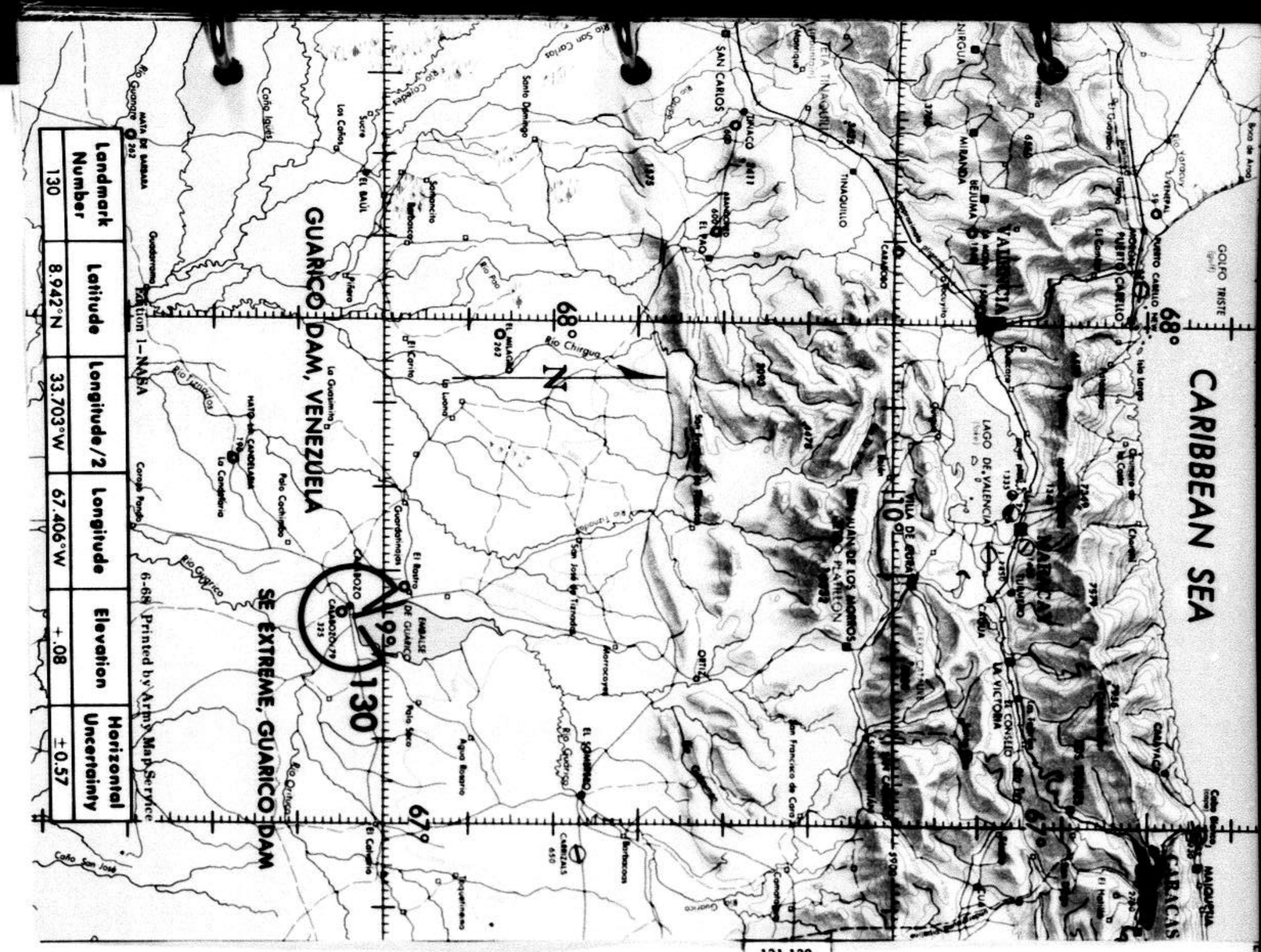
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
127	12.207°N	36.090°W	72.180°W	+0.01	±0.02
128	10.576°N	35.769°W	71.538°W	+.01	±0.04

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
127	12.207 N	36.090 W	72.180 W	-0.01	±0.02
129	12.617 N	35.030 W	70.060 W	-0.01	±0.02

Edition 1–NASA

6-68 Printed by Army Map Service





Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
130	8.942°N	33.703°W	67.406°W	+.08	±0.57

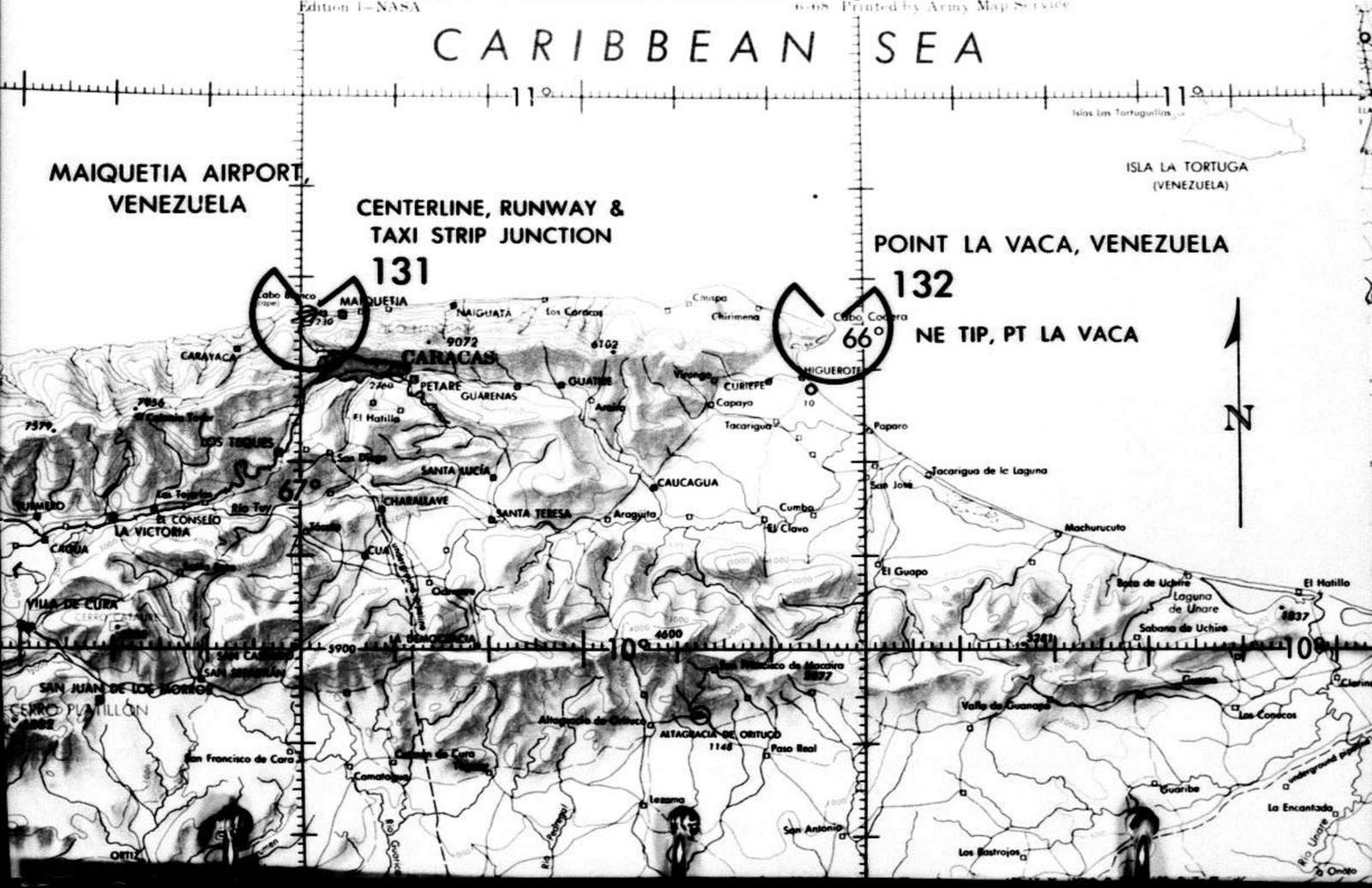
Edition 1–NASA

6-68 Printed by Army Map Service

112,113	108,109	105	101,102,103	73	68,69,70	66	63,64	131,132	127,129	125,126	121	118,119	116
114,115	110,111	106,107	104	74	71,72	67	65	133,134	130	127,128	122	120	117

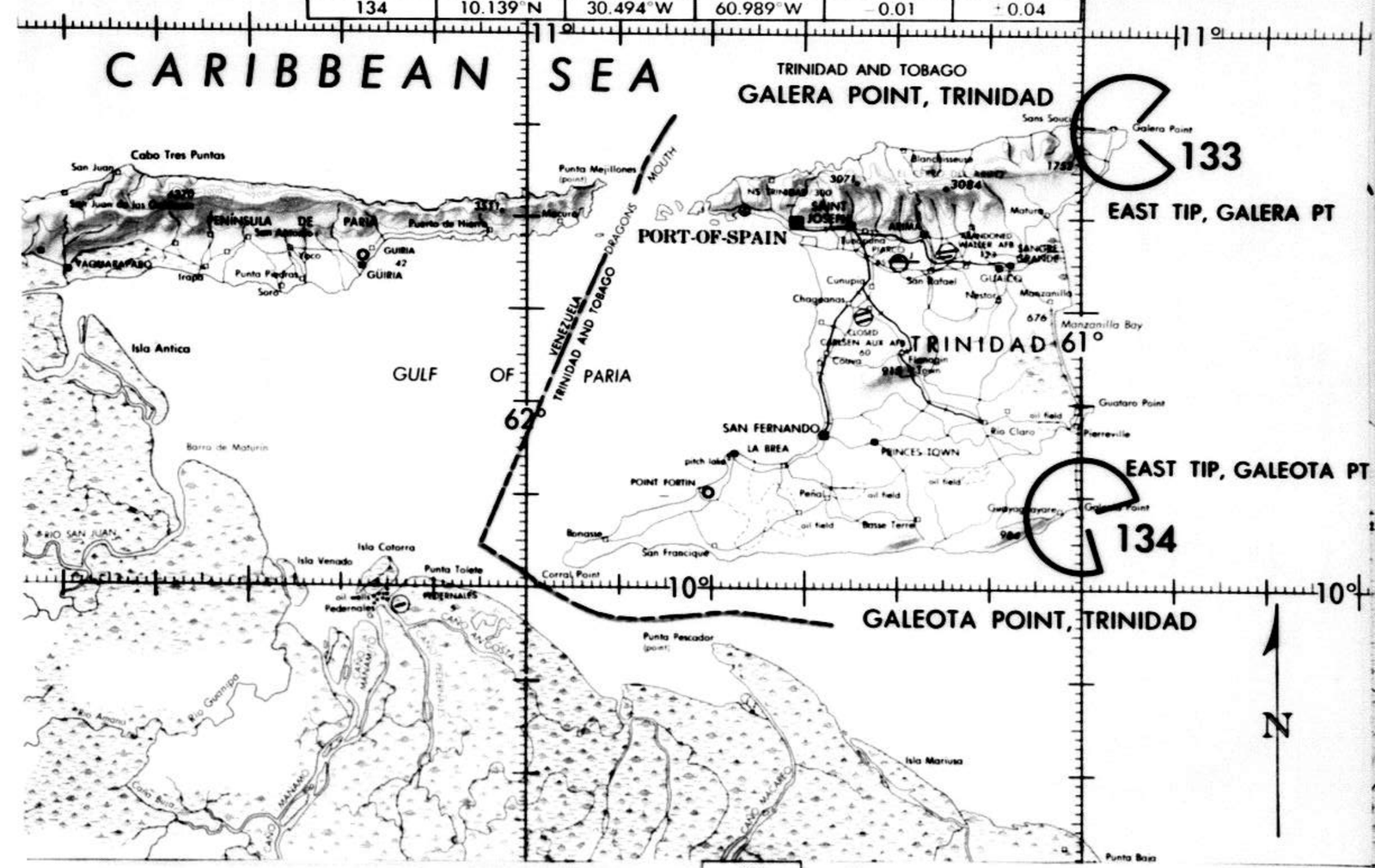
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
131	10.600 N	33.492 W	66.984 W	-.02	+0.02
132	10.584 N	33.028 W	66.055 W	0.00	+0.02

Edition 1—NASA 6-68 Printed by Army Map Service



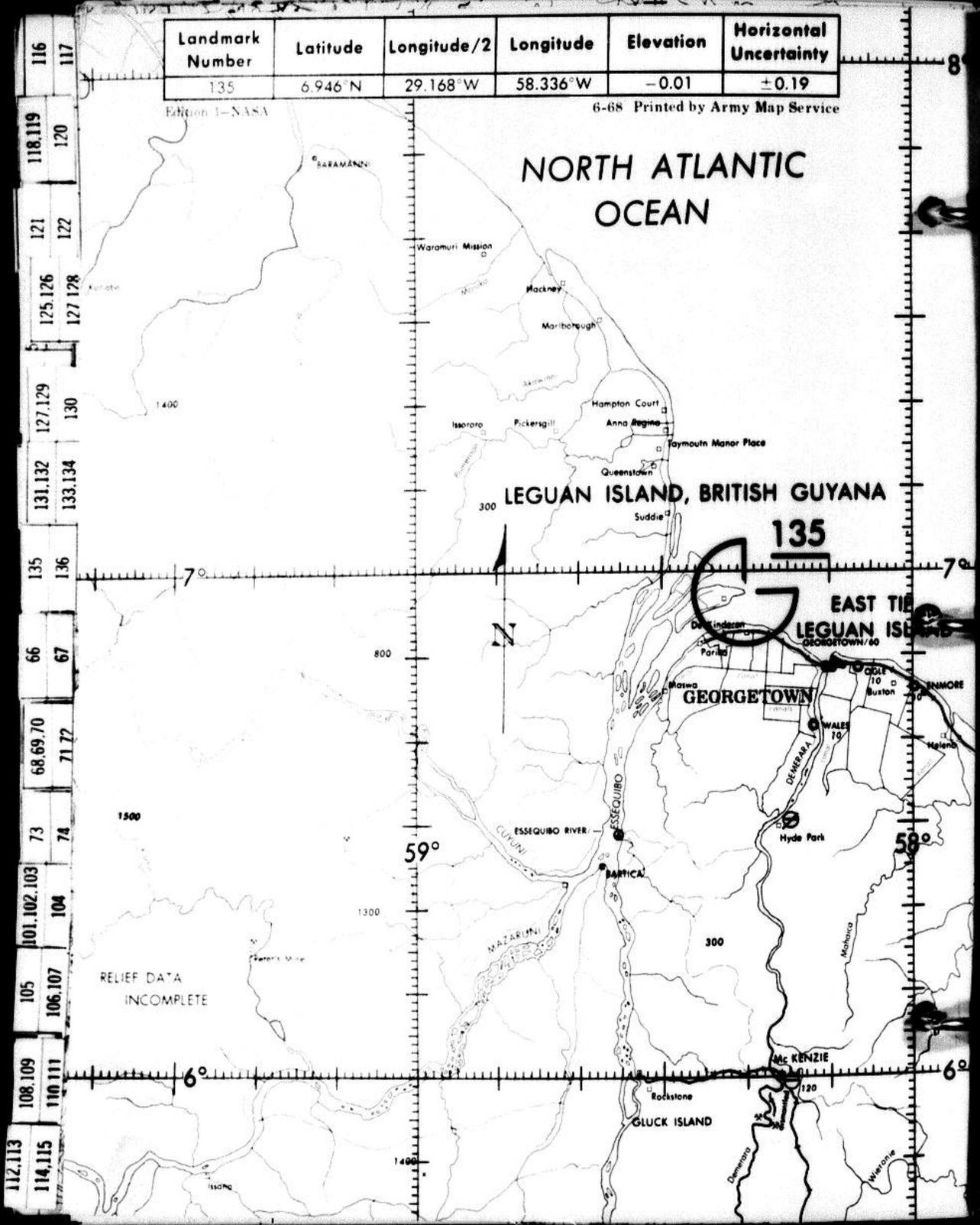
Edition 1—NASA 6-68 Printed by Army Map Service

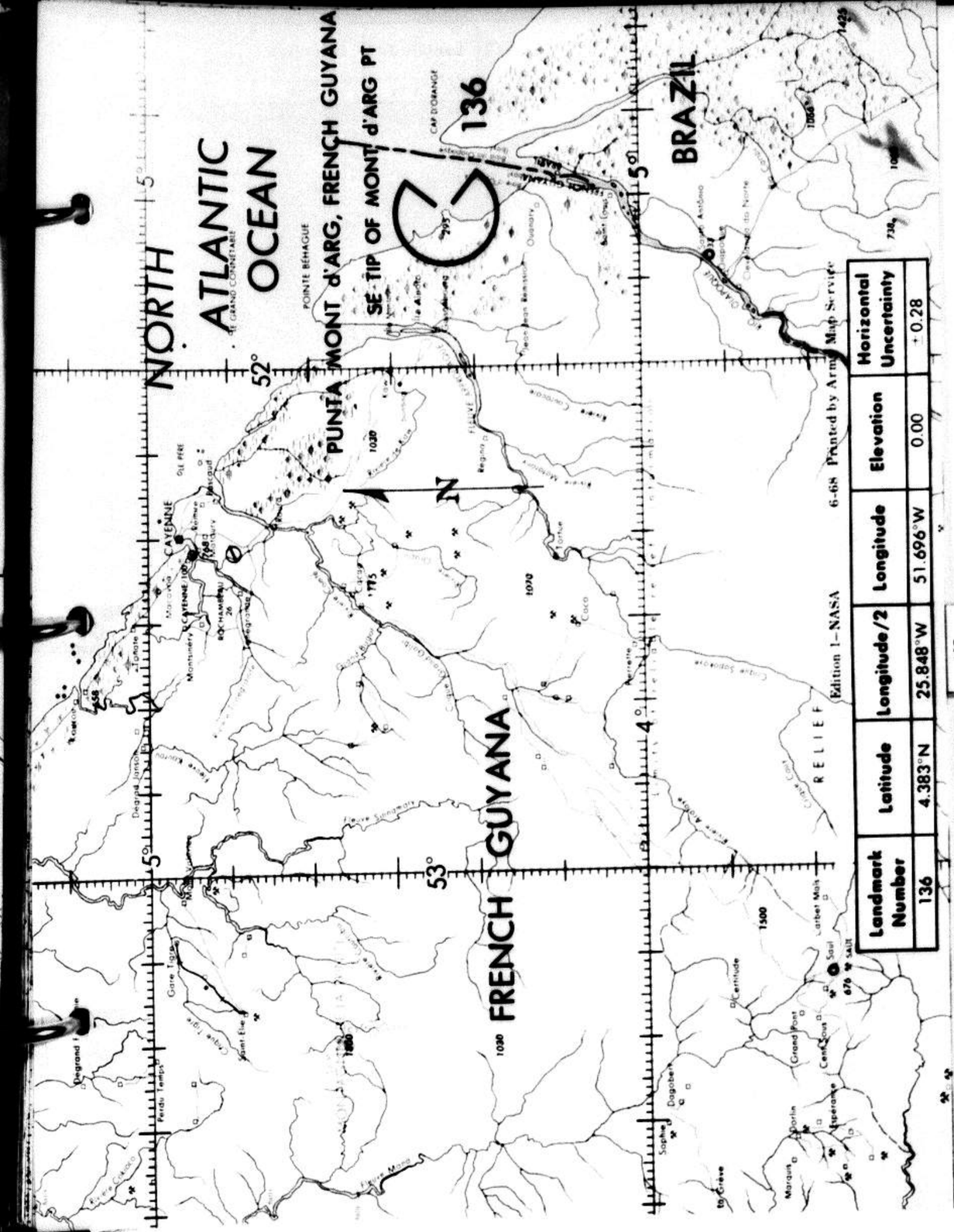
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
133	10.836°N	30.454°W	60.909°W	-0.01	+0.04
134	10.139°N	30.494°W	60.989°W	-0.01	+0.04



135
136

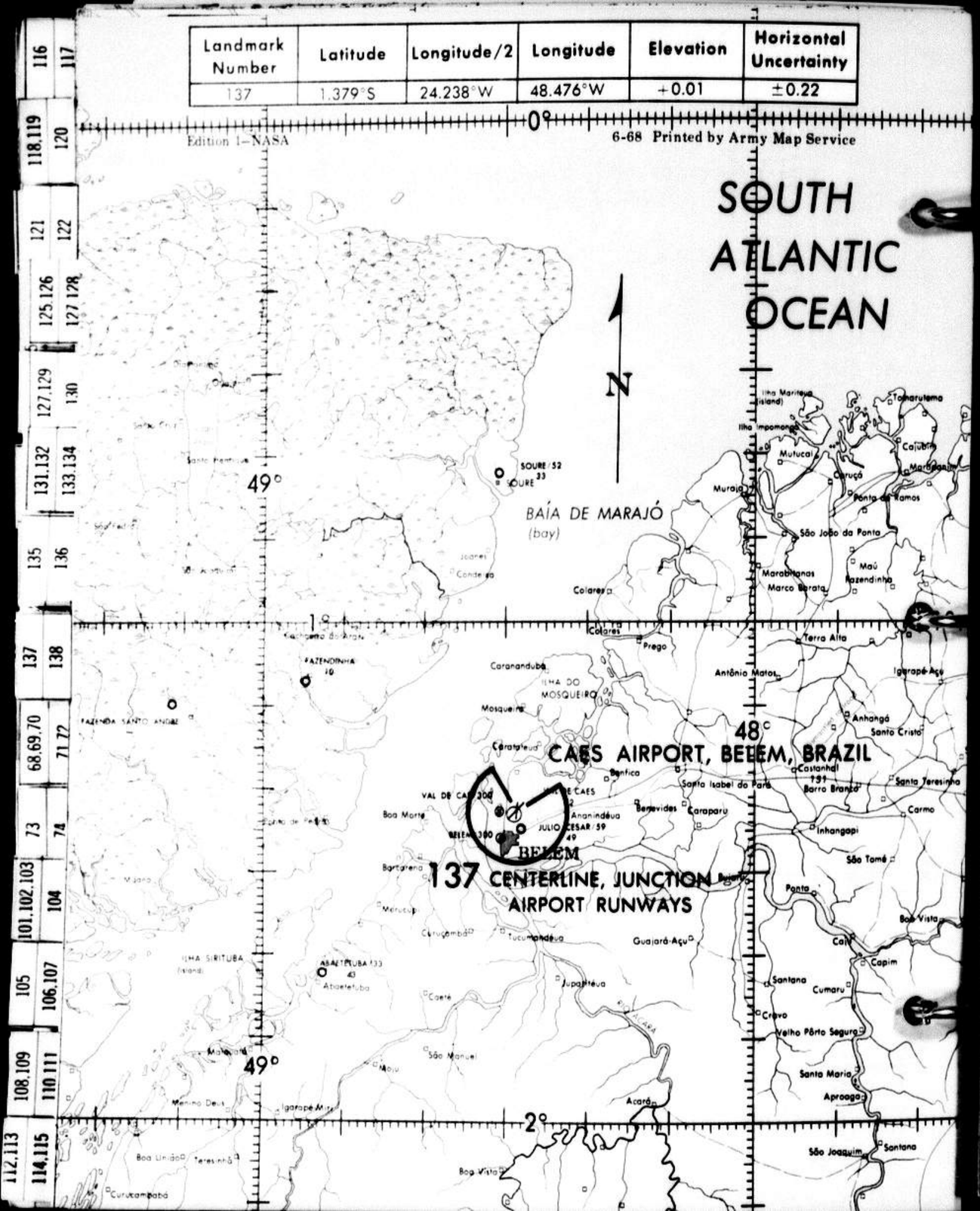
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
135	6.946°N	29.168°W	58.336°W	−0.01	±0.19

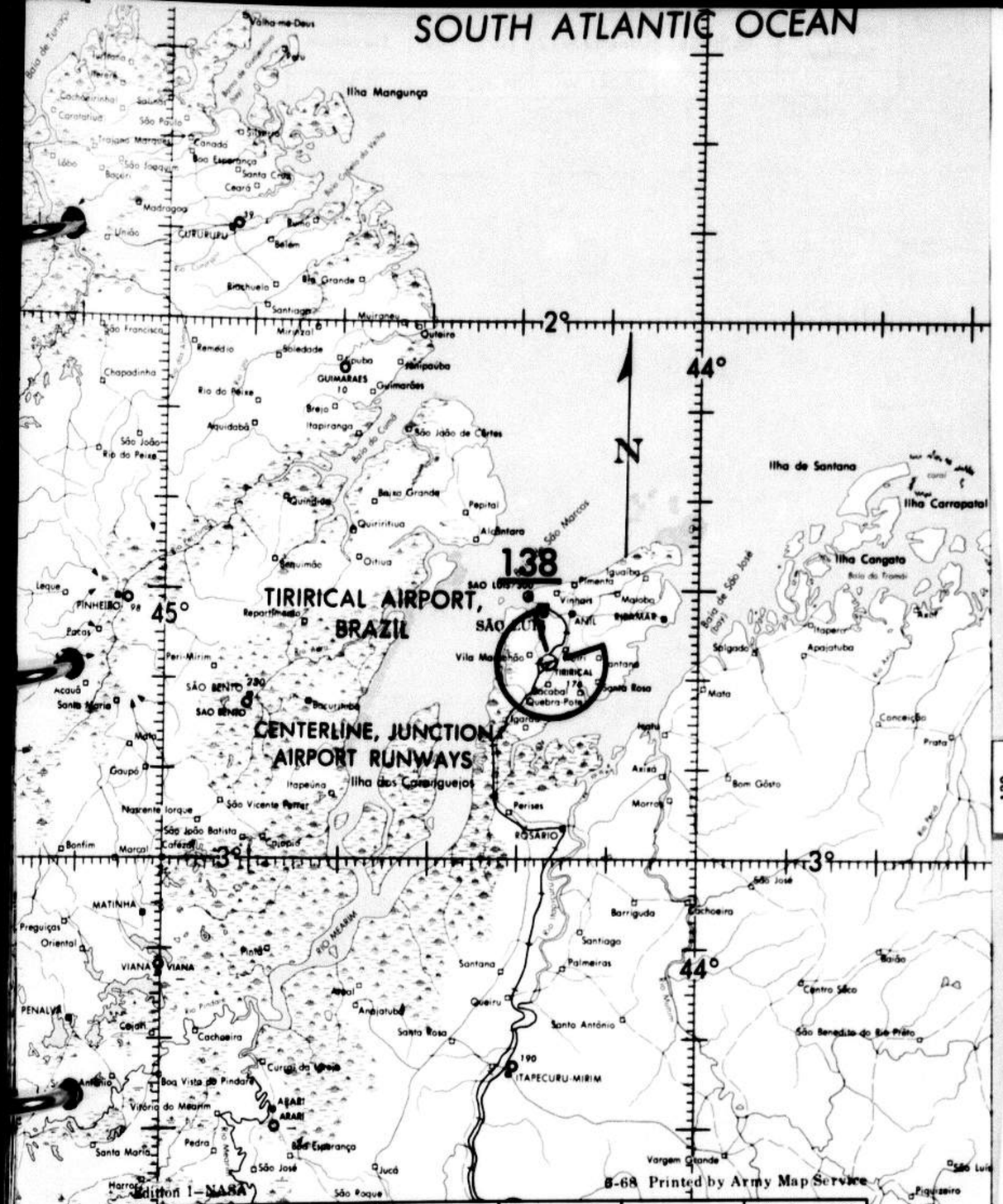




Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
136	4.383°N	25.848°W	51.696°W	0.00	±0.28

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
137	1.379°S	24.238°W	48.476°W	+0.01	±0.22





Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
138	2.587°S	22.118°W	44.236°W	+0.03	±0.22

Edition 1–NASA

6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
139	3.699°S	19.241°W	38.482°W	0.00	±0.22

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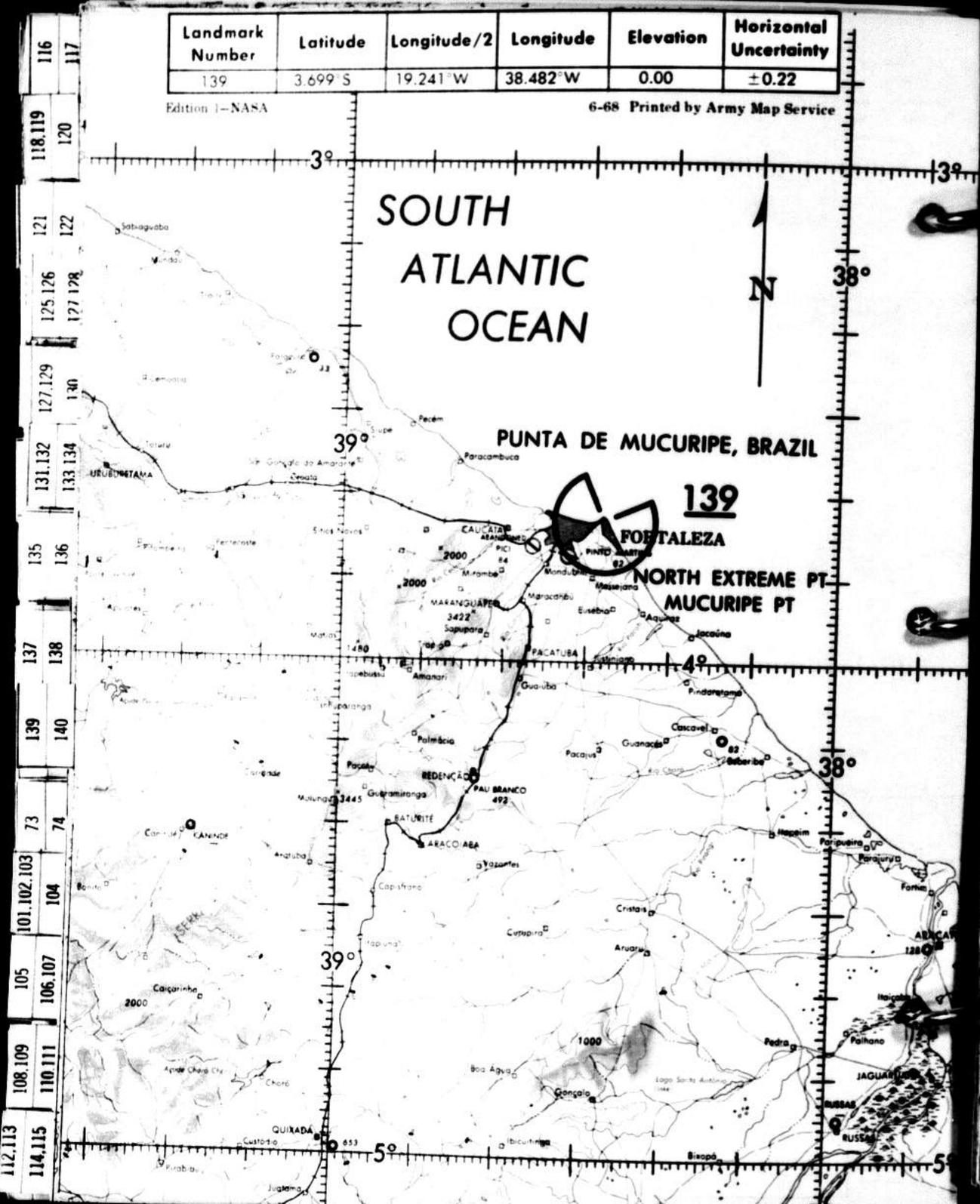
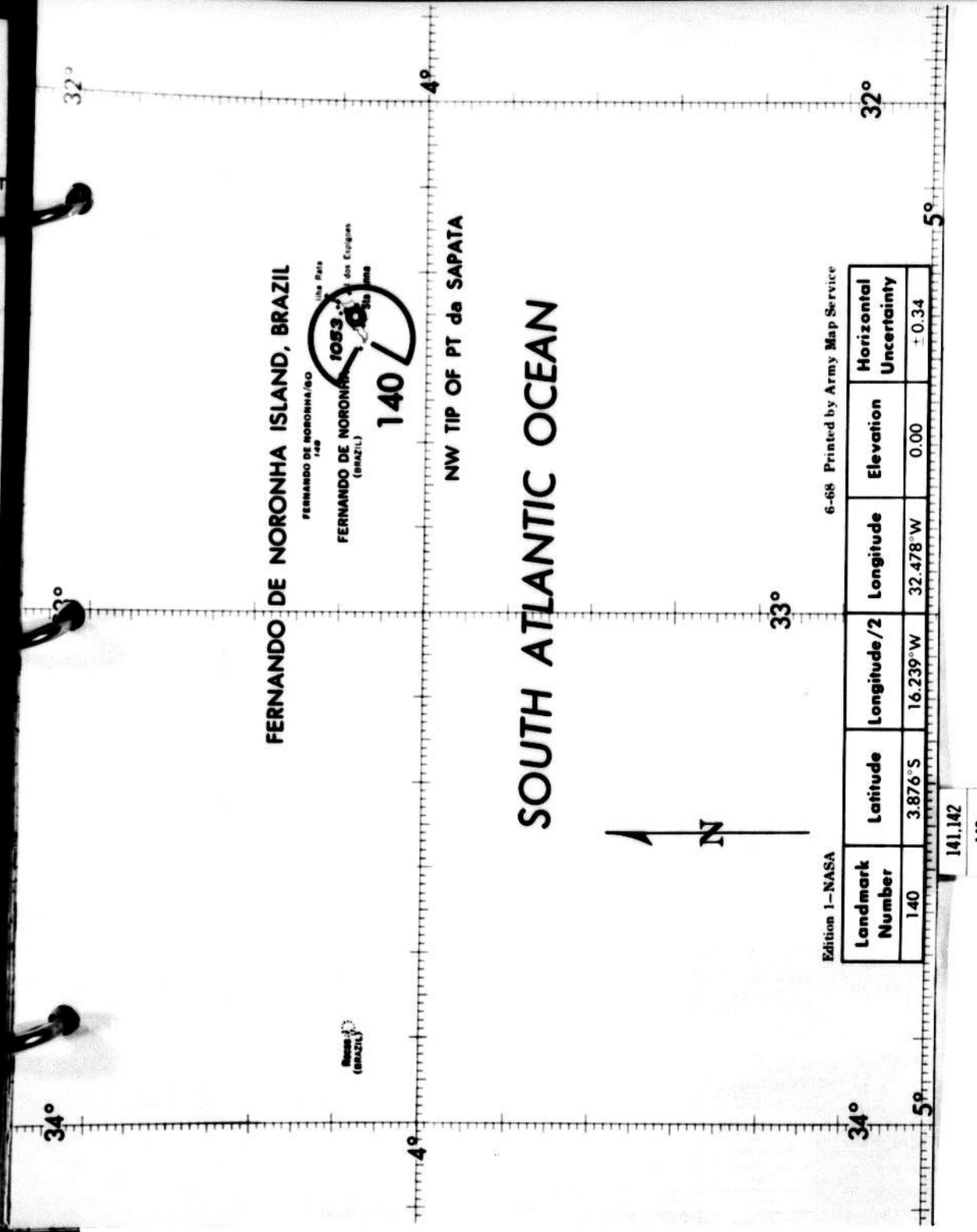
6-68 Printed by Army Map Service





6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
140	3.876°S	16.239°W	32.478°W	0.00	±0.34

Edition 1–NASA

SOUTH ATLANTIC OCEAN

AUGUSTO SEVERO AIRPORT, BRAZIL

CENTERLINE JUNCTION, AIRPORT RUNWAYS

141

CABEDELO, BRAZIL

142

JUNCTION OF BREAKWATER, MAINLAND

Edition 1–NASA

6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
141	5.910°S	17.622°W	35.245°W	+0.03	±0.03
142	6.966°S	17.422°W	34.843°W	0.00	±0.22

SOUTH ATLANTIC OCEAN

RECIFE, BRAZIL

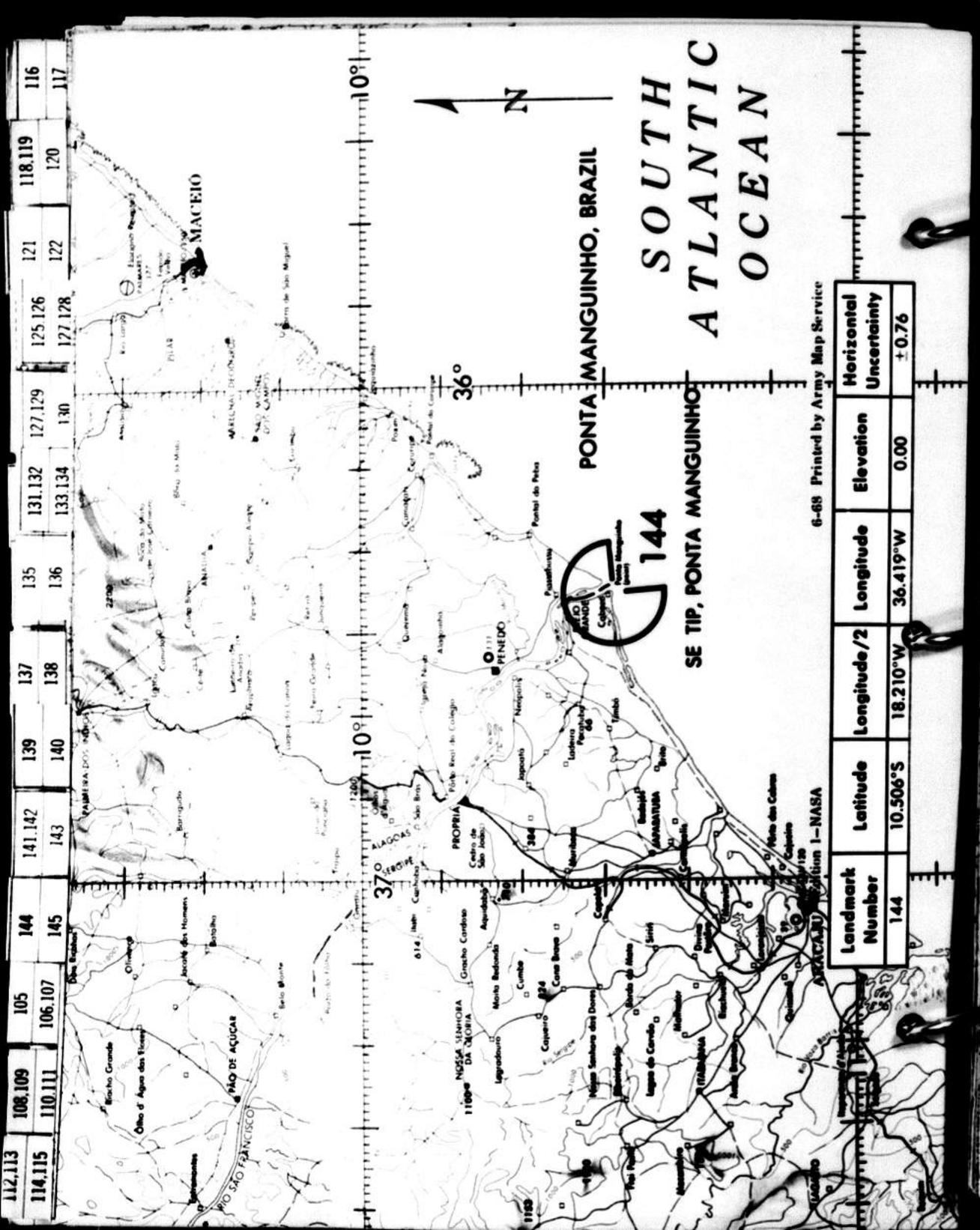
143

NE TIP, BREAKWATER

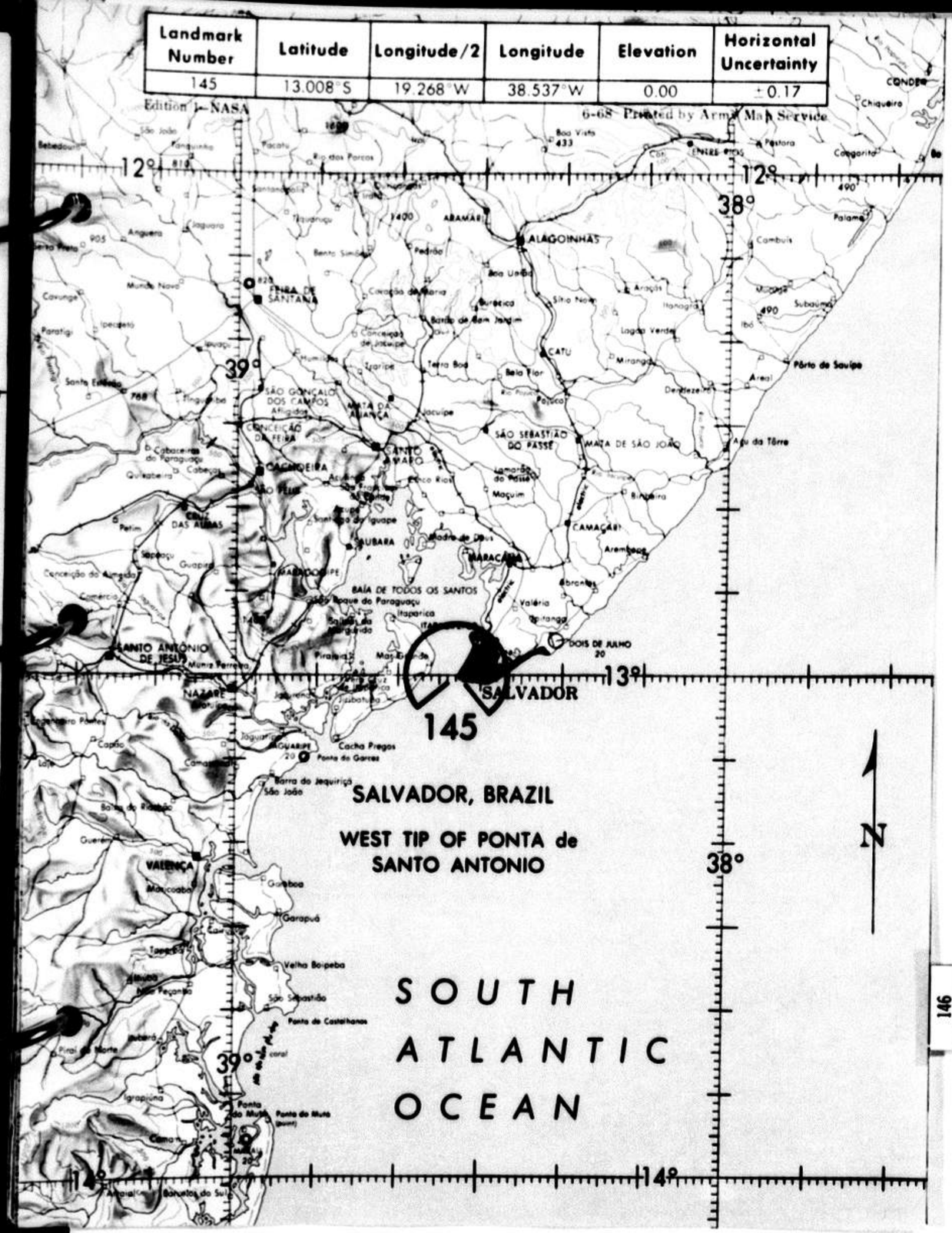
Edition 1–NASA

6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
143	8.048°S	17.430°W	34.859°W	0.00	±0.22

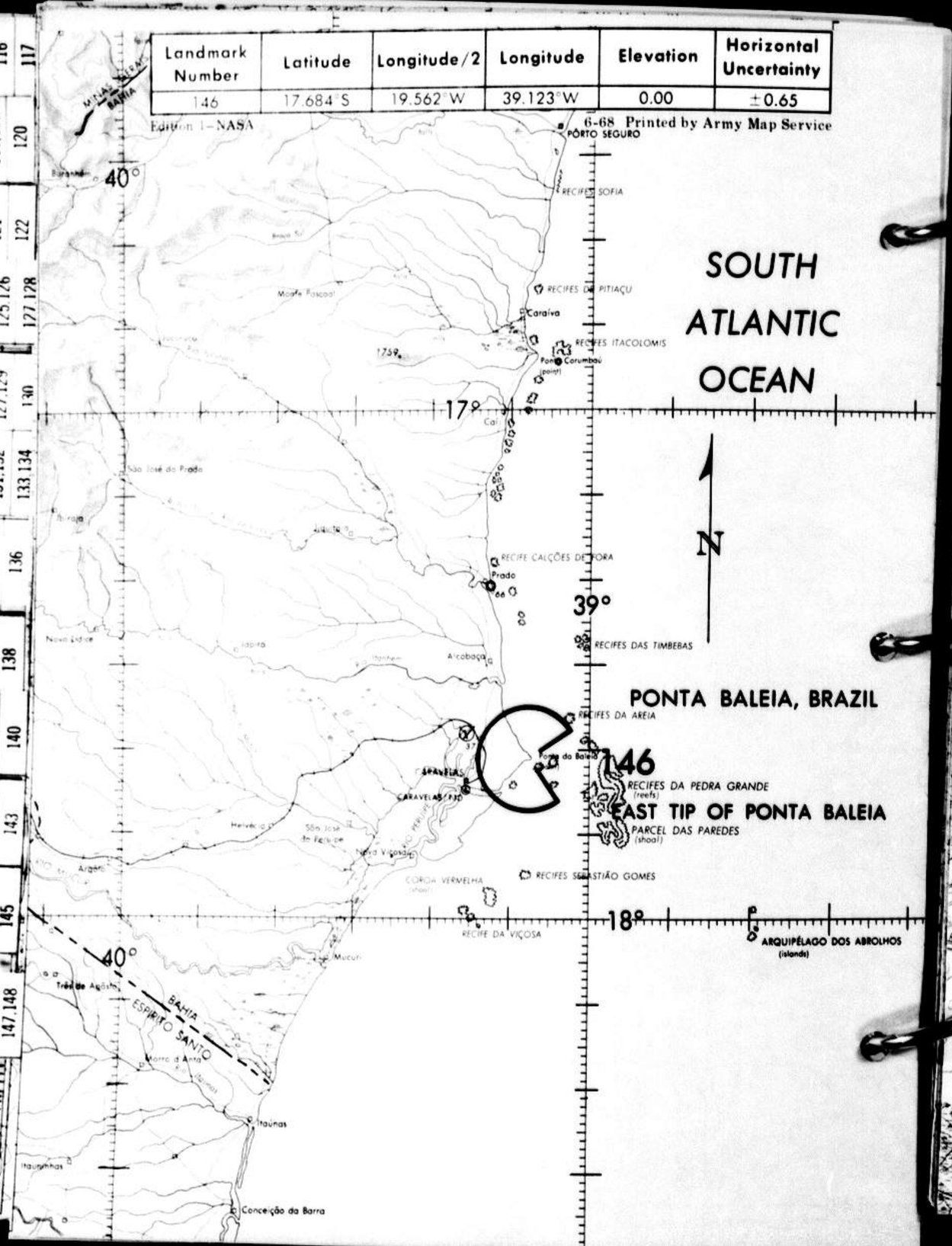


Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
144	10.506°S	18.210°W	36.419°W	0.00	±0.76

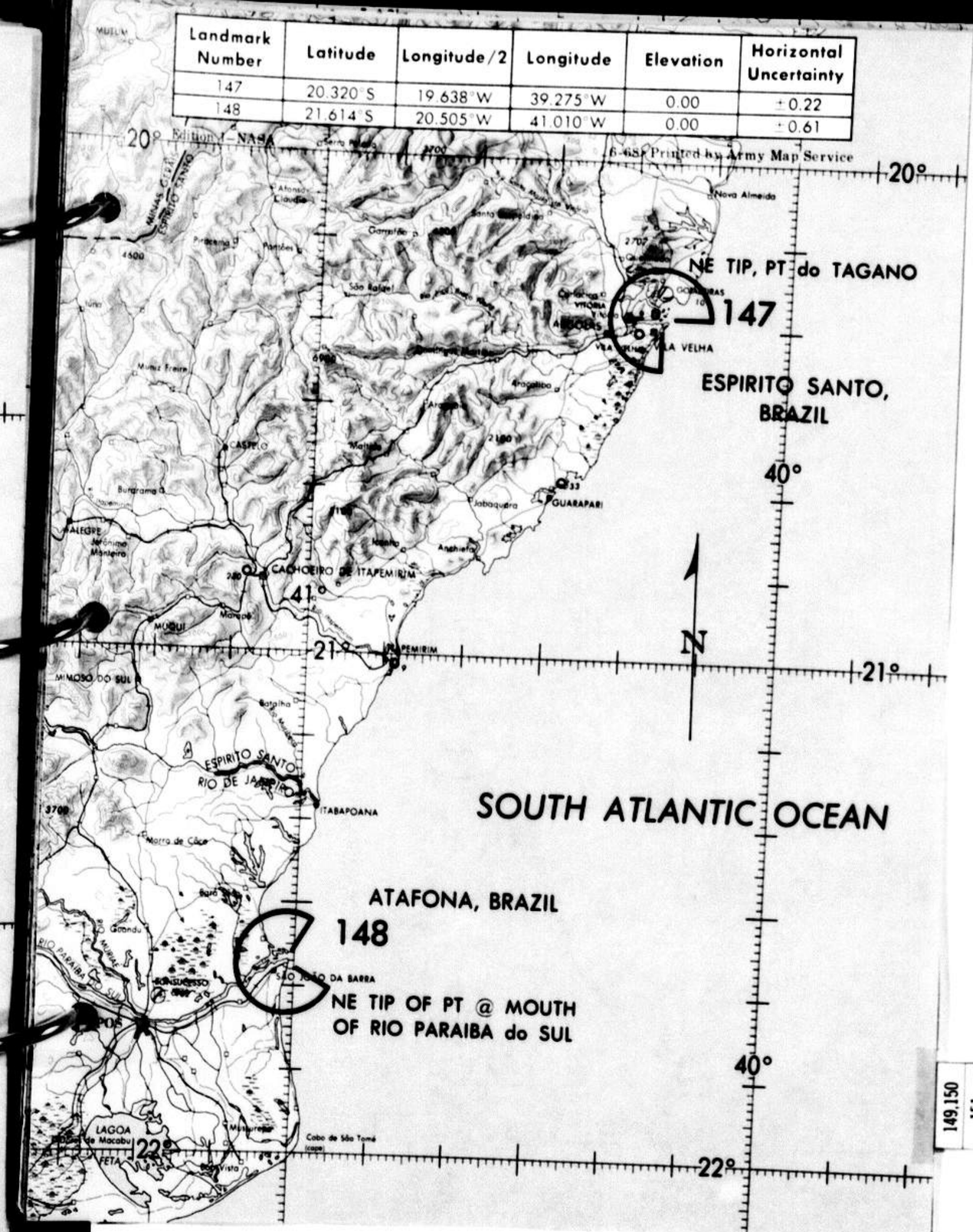


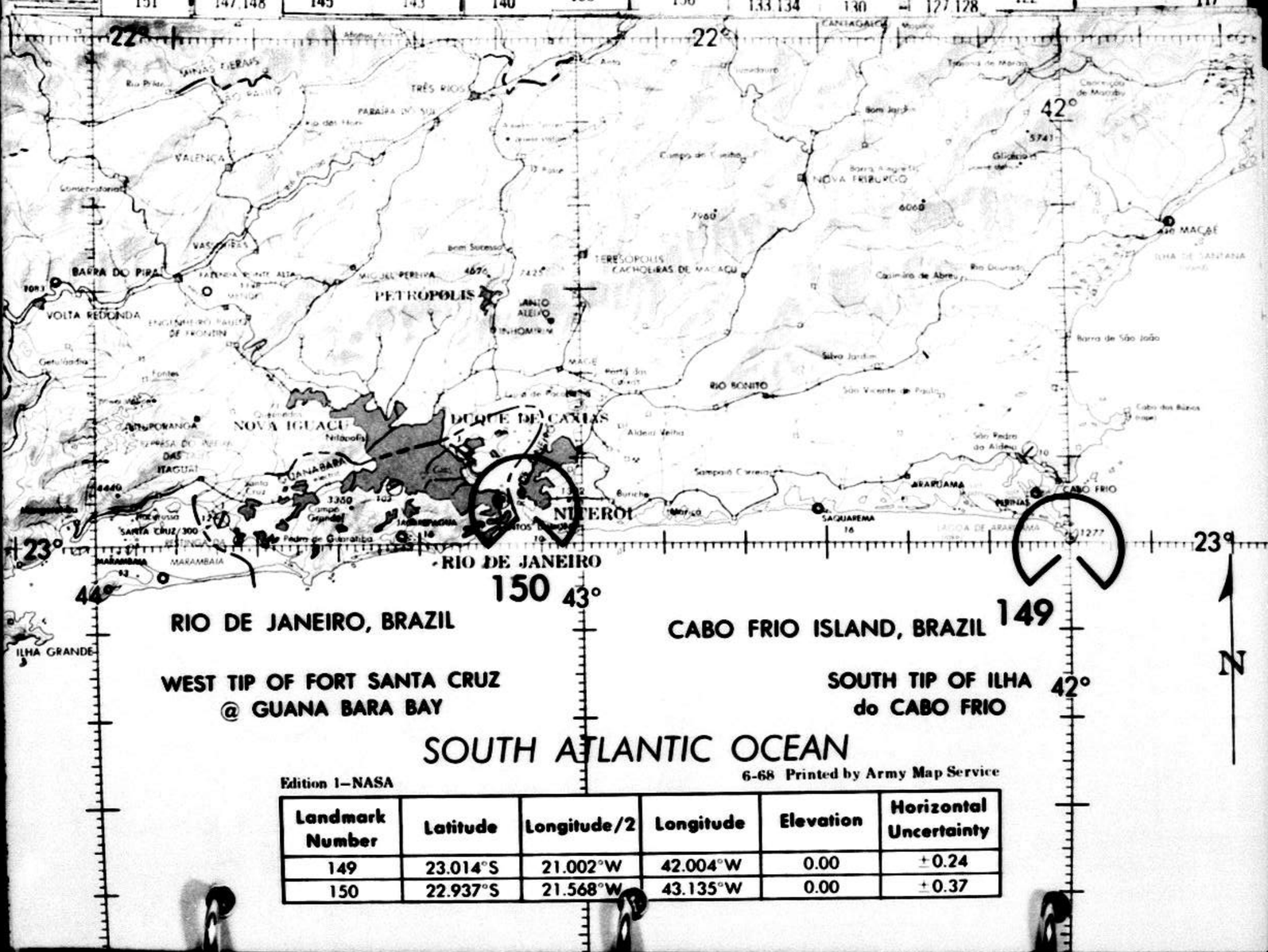
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
145	13.008°S	19.268°W	38.537°W	0.00	±0.17

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
146	17.684°S	19.562°W	39.123°W	0.00	±0.65



Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
147	20.320°S	19.638°W	39.275°W	0.00	±0.22
148	21.614°S	20.505°W	41.010°W	0.00	±0.61





RIO DE JANEIRO, BRAZIL

WEST TIP OF FORT SANTA CRUZ @ GUANA BARA BAY

CABO FRIO ISLAND, BRAZIL

SOUTH TIP OF ILHA do CABO FRIO

SOUTH ATLANTIC OCEAN

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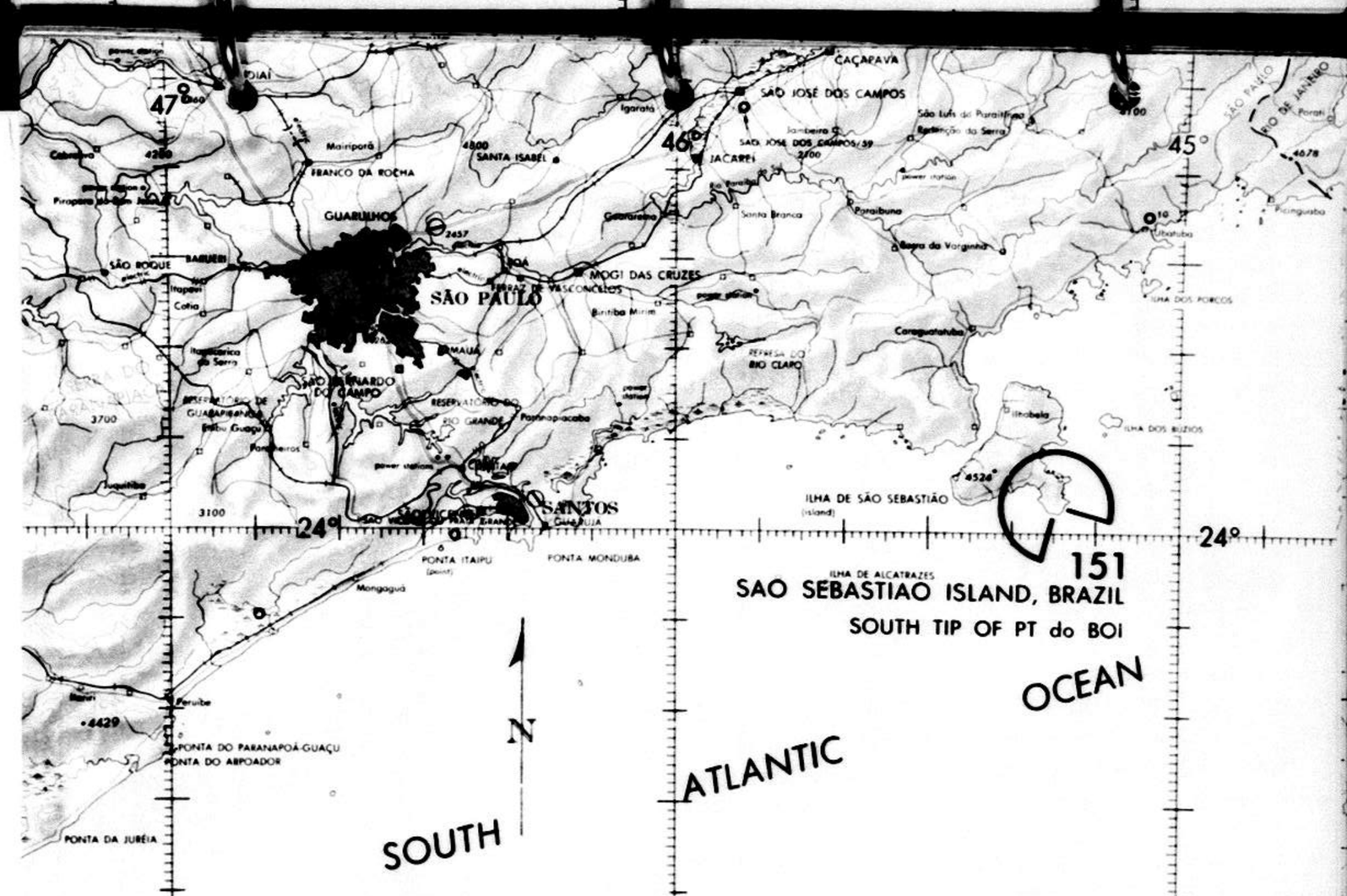
6-68 Printed by Army Map Service

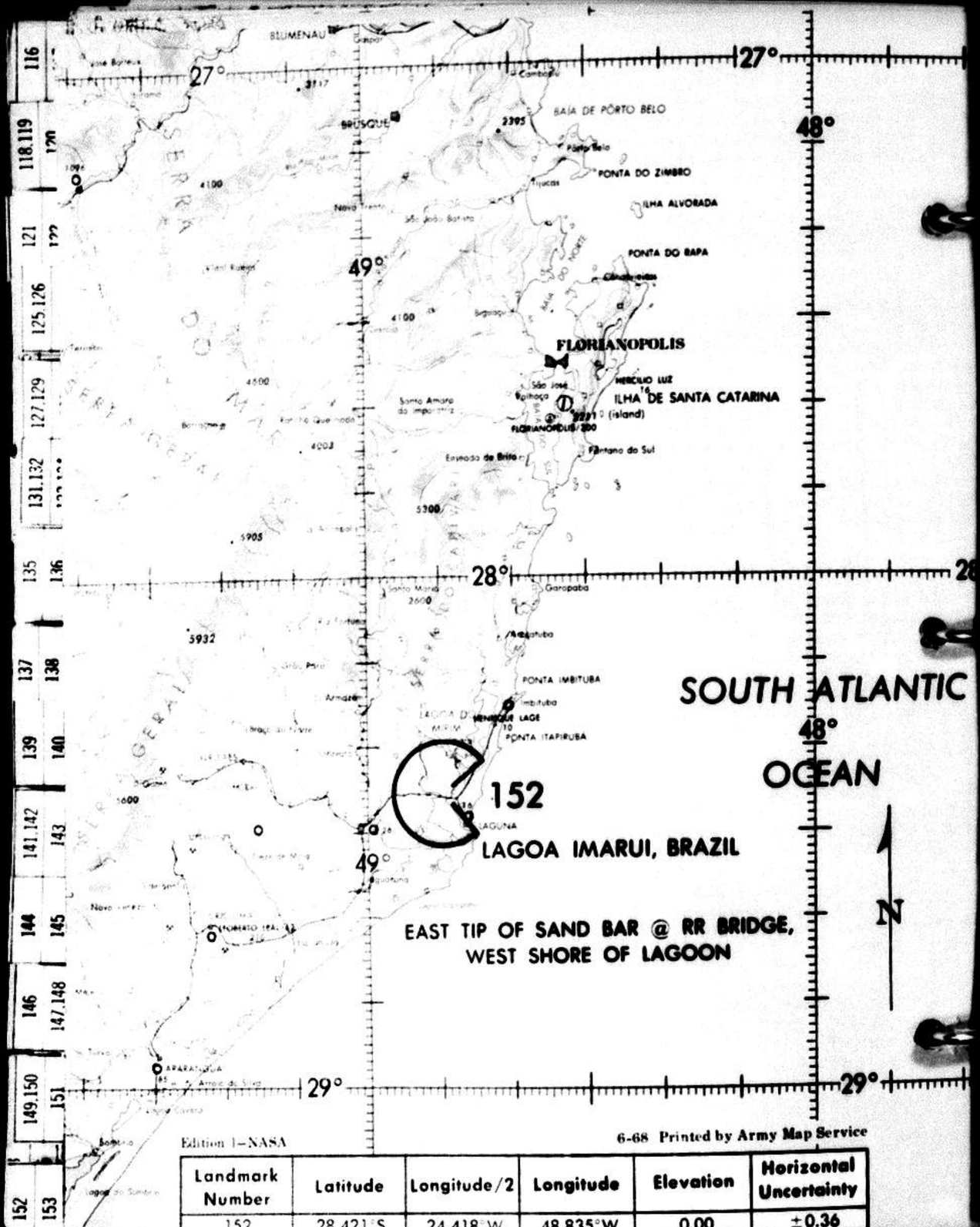
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
149	23.014°S	21.002°W	42.004°W	0.00	±0.24
150	22.937°S	21.568°W	43.135°W	0.00	±0.37



Edition 1—NASA

6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
151	23.967 S	22.626 W	45.252 W	0.00	±0.37



Edition 1—NASA

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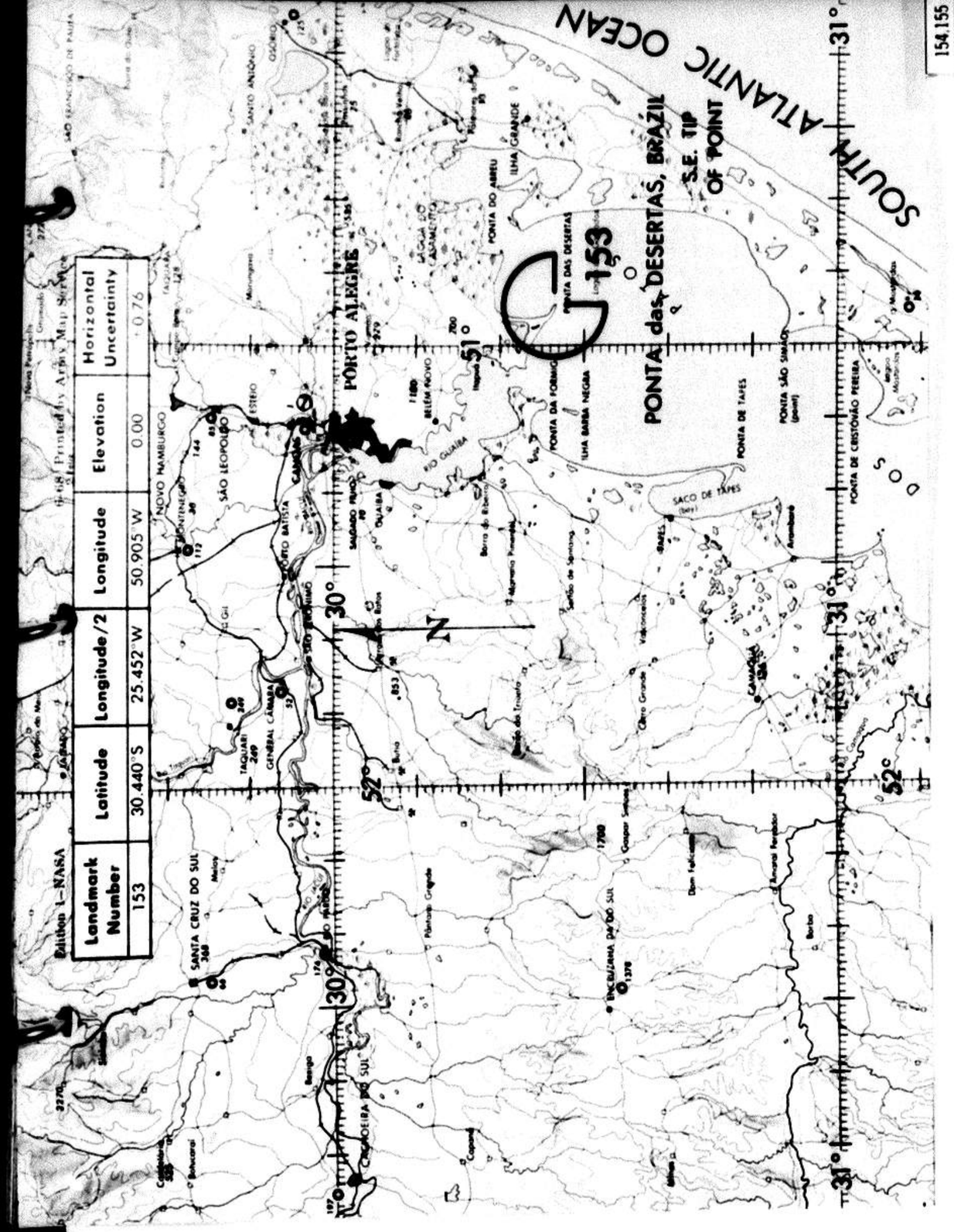
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
152	28.421°S	24.418°W	48.835°W	0.00	±0.36

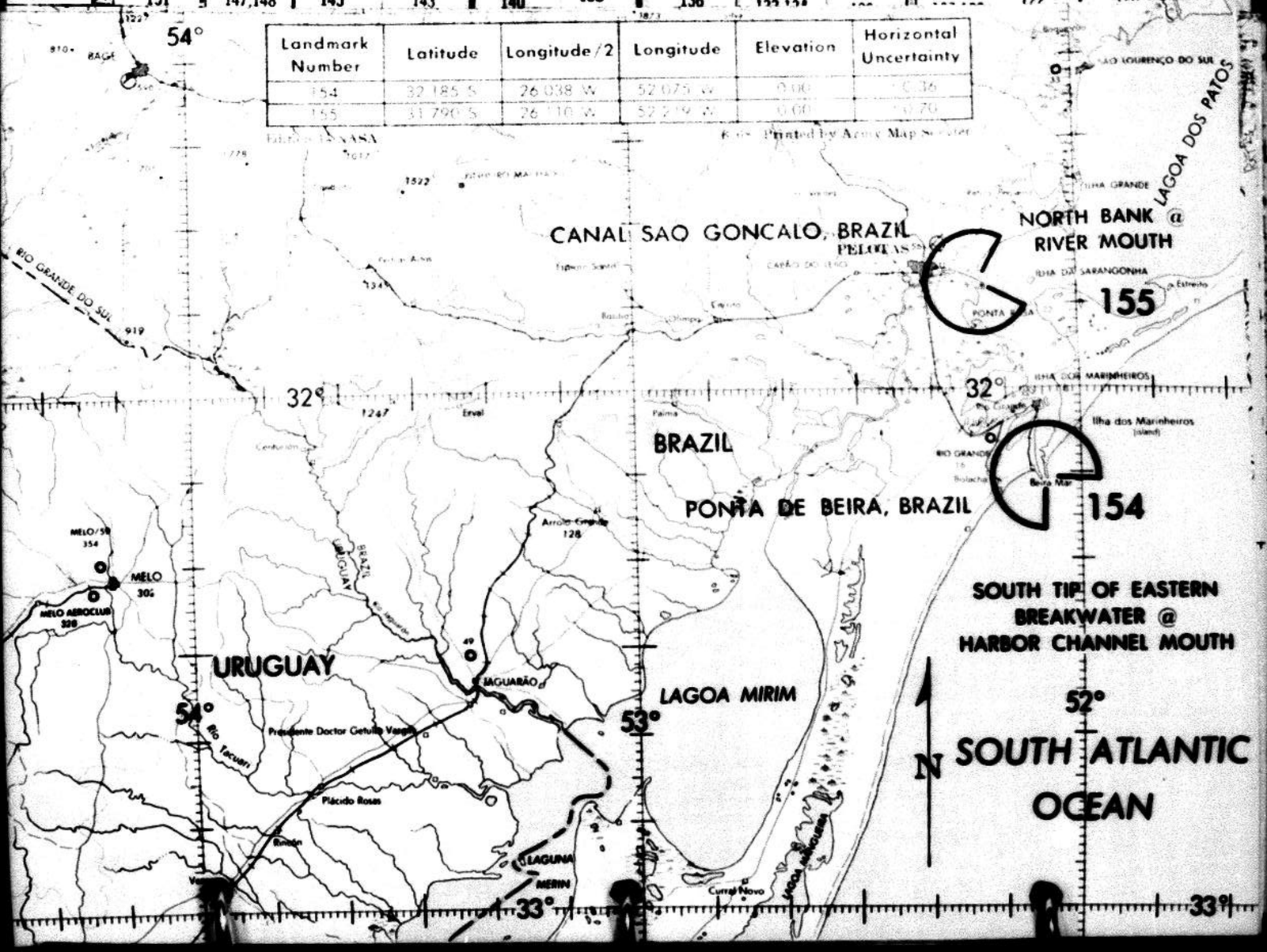


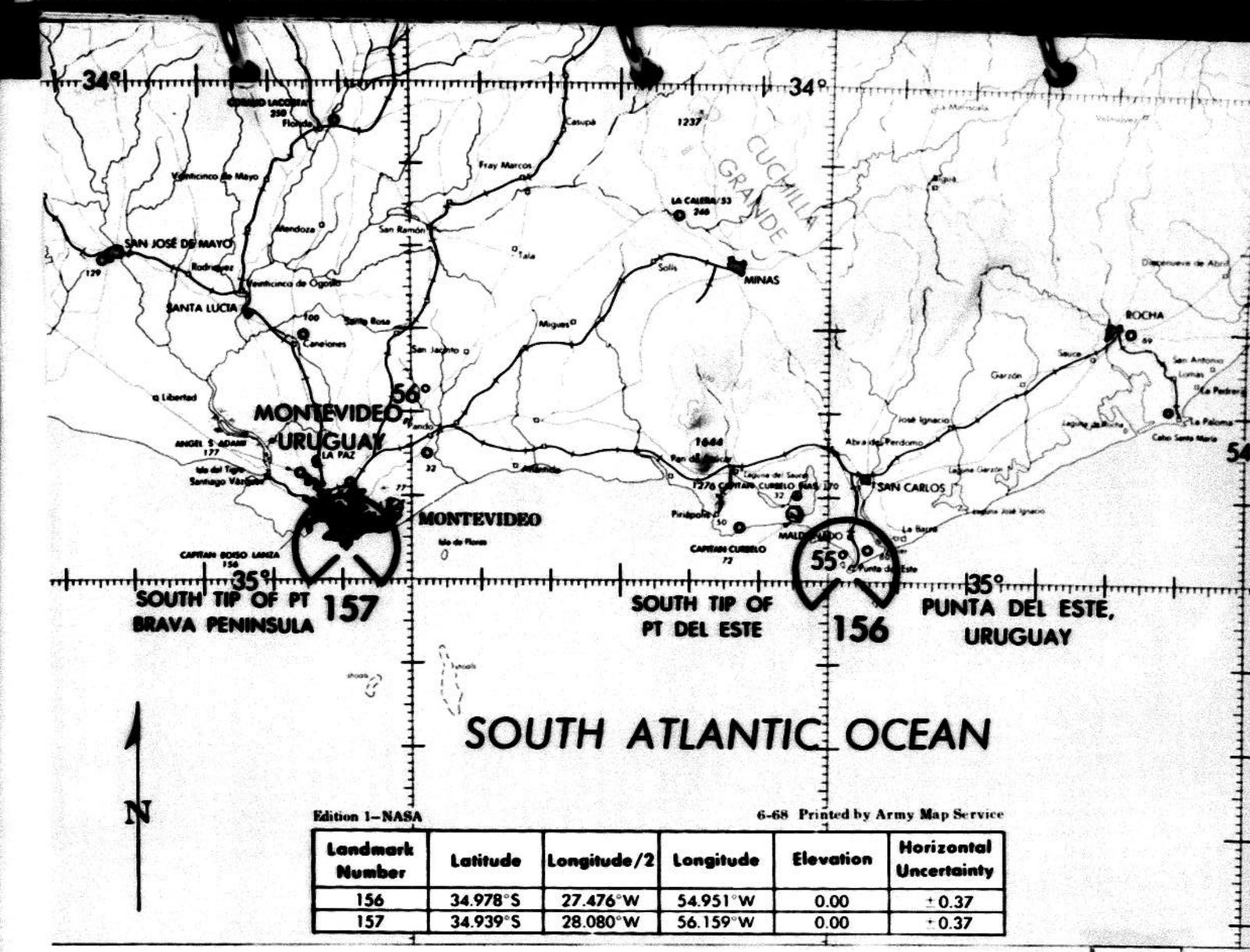
Edition 1—NASA

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
153	30.440°S	25.452°W	50.905°W	0.00	±0.76

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
154	32.185°S	26.038°W	52.075°W	0.00	±0.36
155	31.790°S	26.110°W	52.219°W	0.00	±0.70

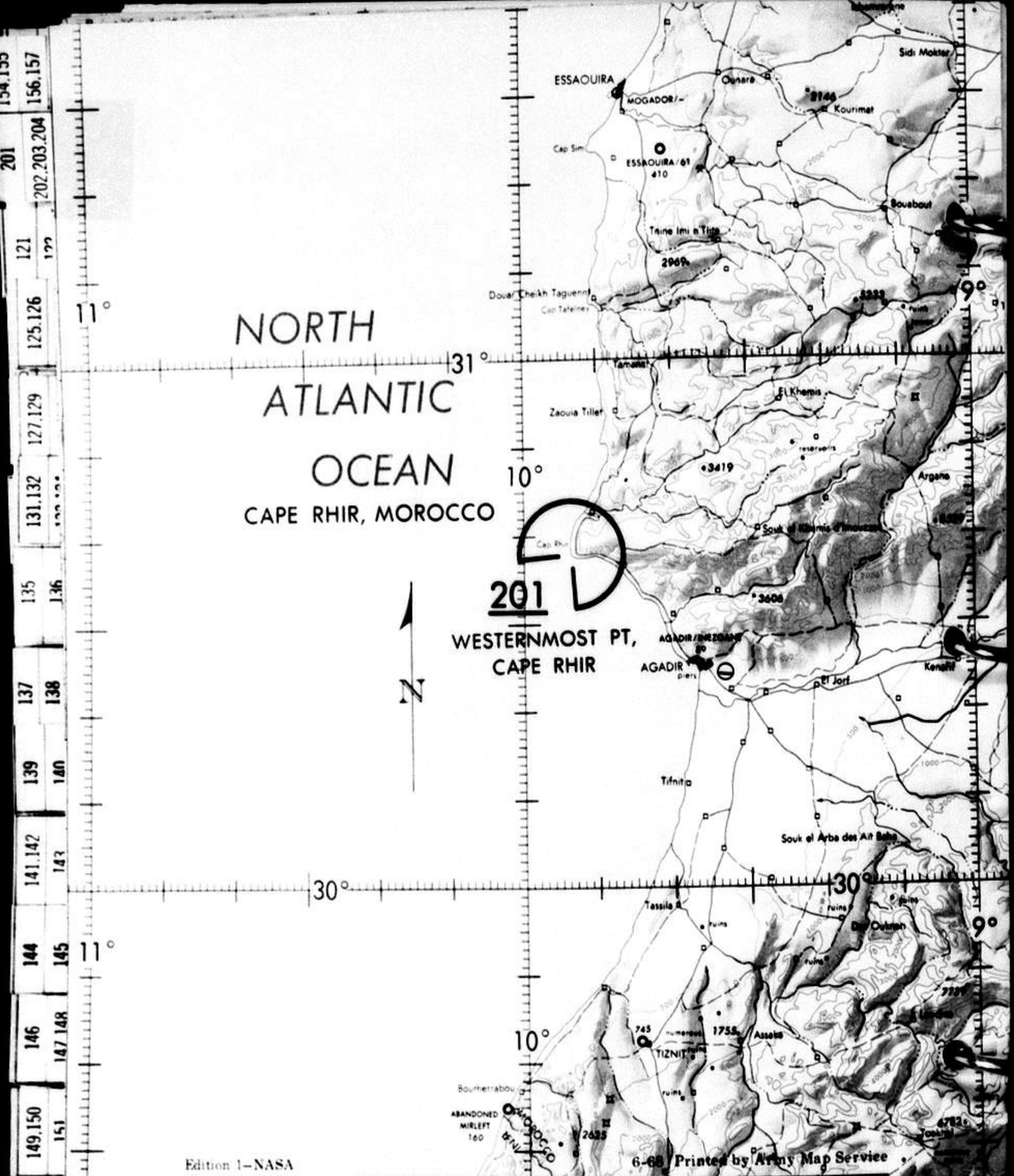
Edition 1—NASA 6-68 Printed by Army Map Service



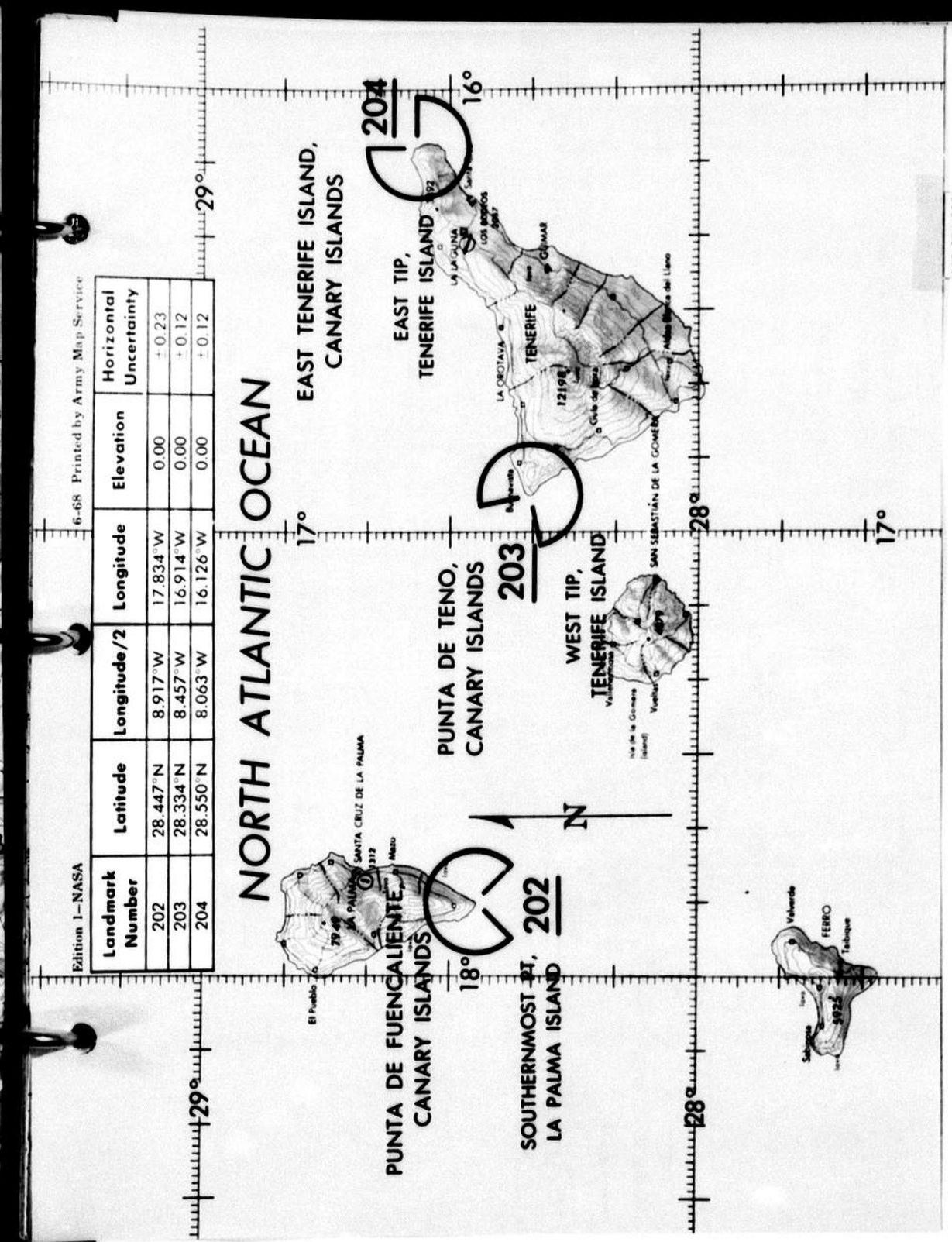


Edition 1—NASA 6-68 Printed by Army Map Service

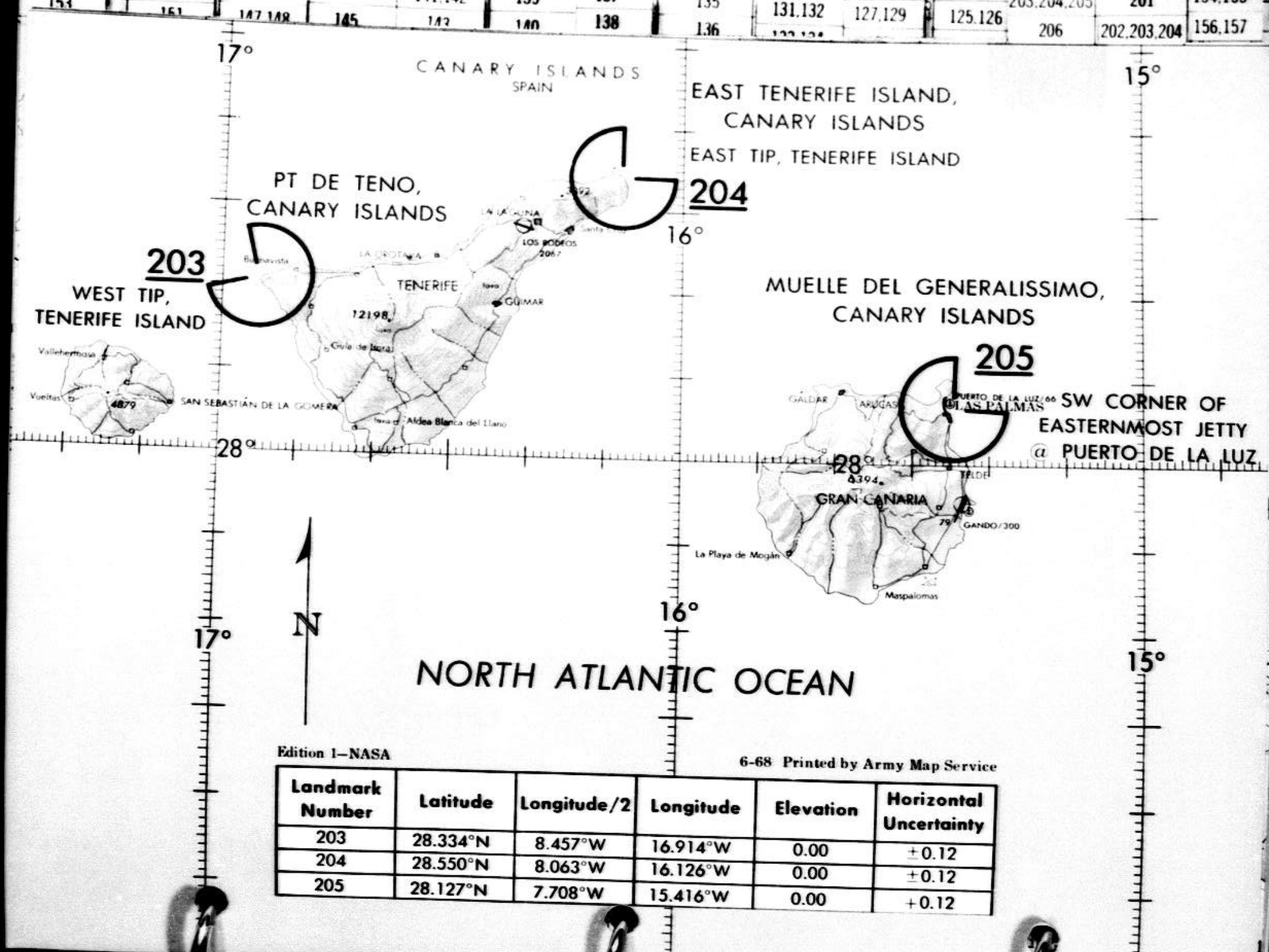
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
156	34.978°S	27.476°W	54.951°W	0.00	±0.37
157	34.939°S	28.080°W	56.159°W	0.00	±0.37



Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
201	30.633°N	4.946°W	9.891°W	0.00	±0.14



Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
202	28.447°N	8.917°W	17.834°W	0.00	±0.23
203	28.334°N	8.457°W	16.914°W	0.00	±0.12
204	28.550°N	8.063°W	16.126°W	0.00	±0.12



Edition 1—NASA

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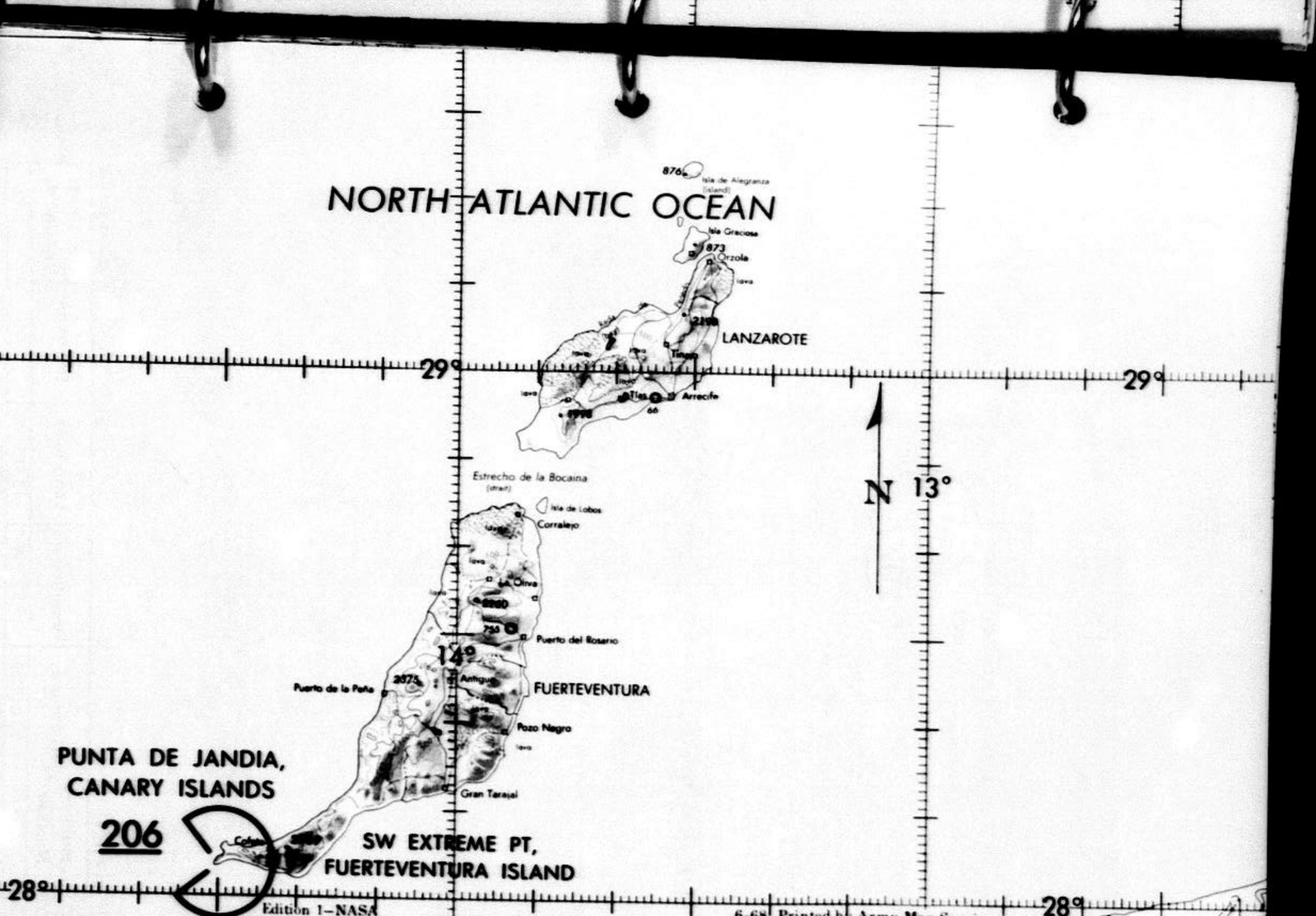
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
203	28.334°N	8.457°W	16.914°W	0.00	±0.12
204	28.550°N	8.063°W	16.126°W	0.00	±0.12
205	28.127°N	7.708°W	15.416°W	0.00	+0.12



Edition 1—NASA

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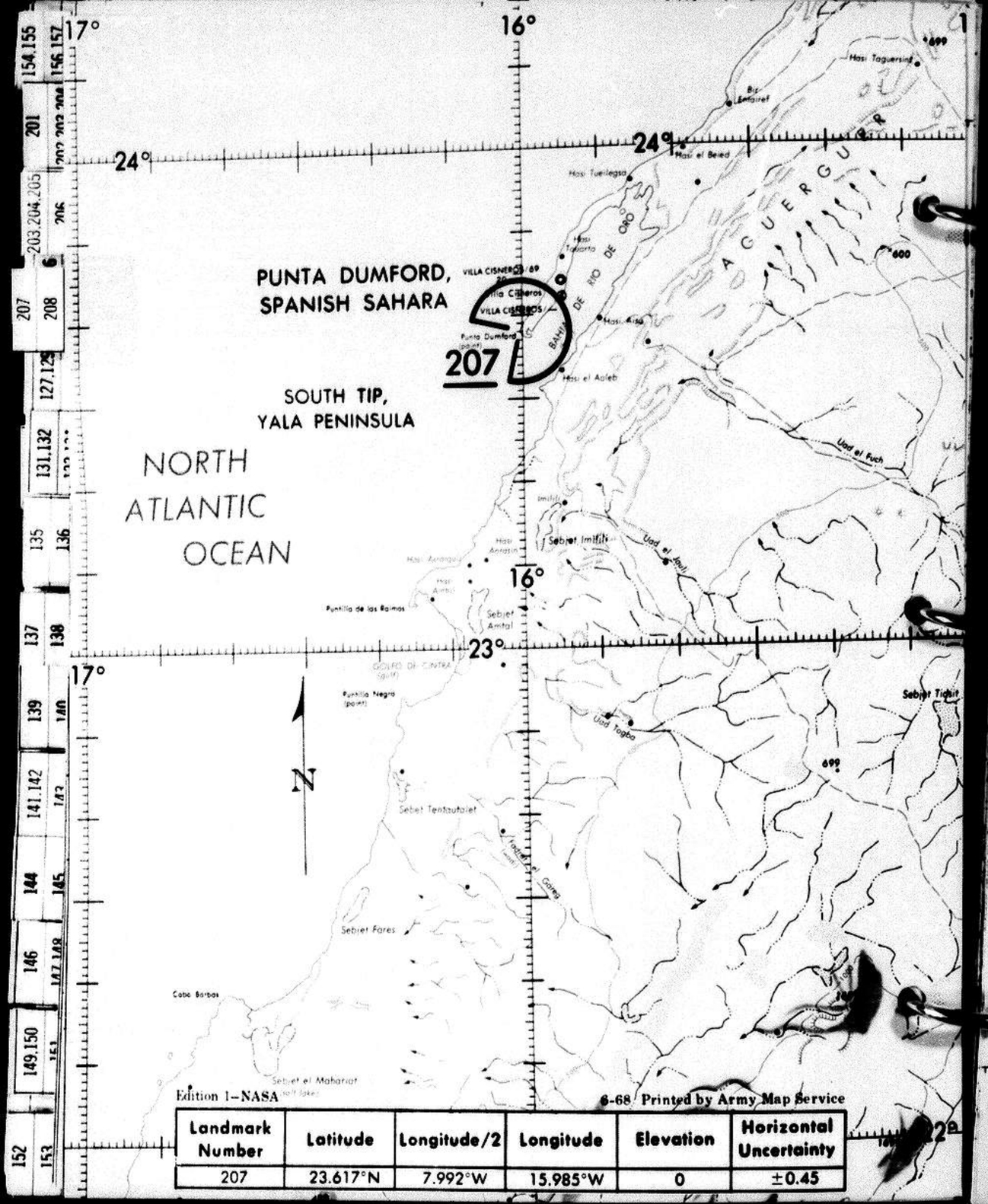
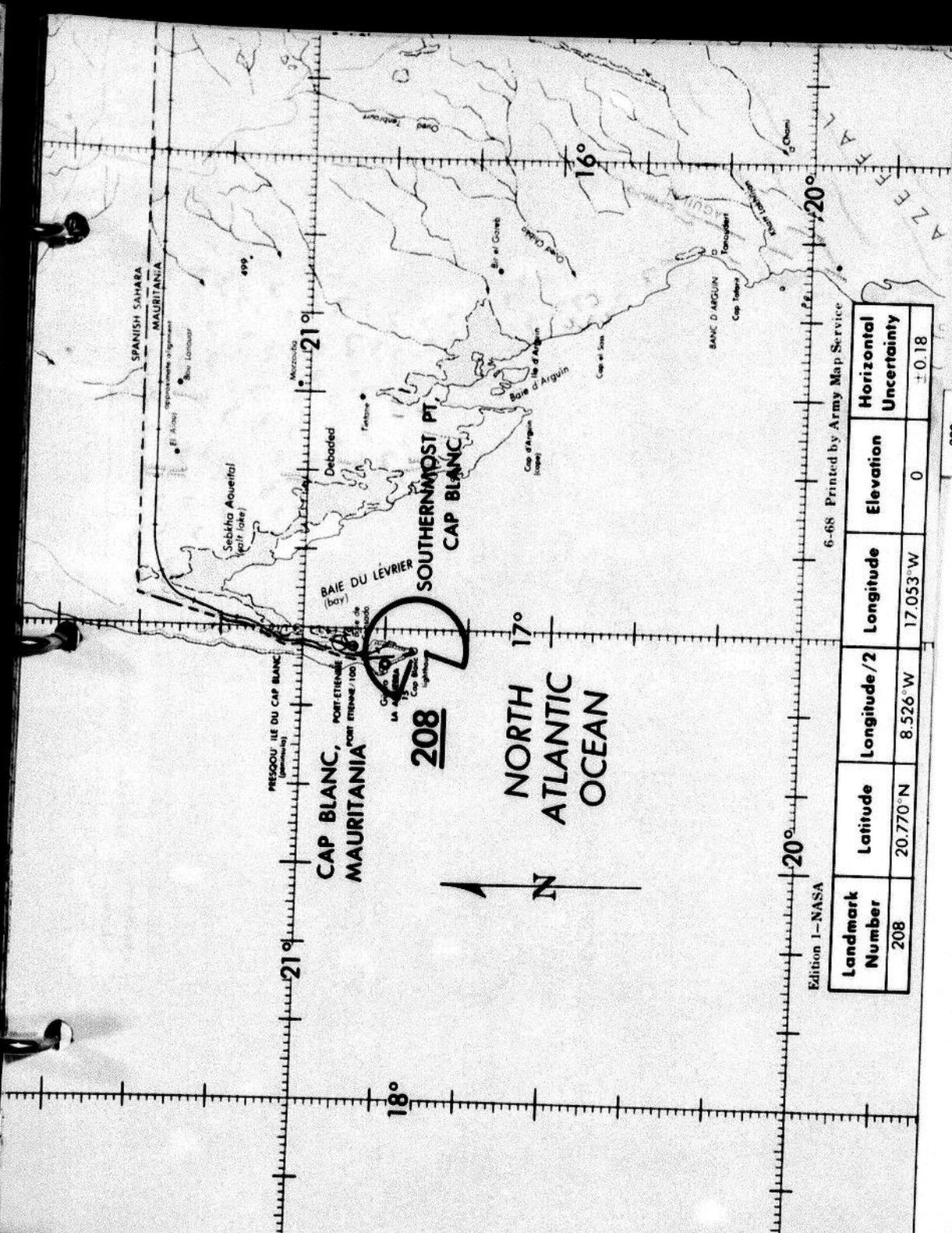
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
206	28.059°N	7.252°W	14.505°W	0.00	±0.12



Edition 1–NASA

6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
207	23.617°N	7.992°W	15.985°W	0	±0.45

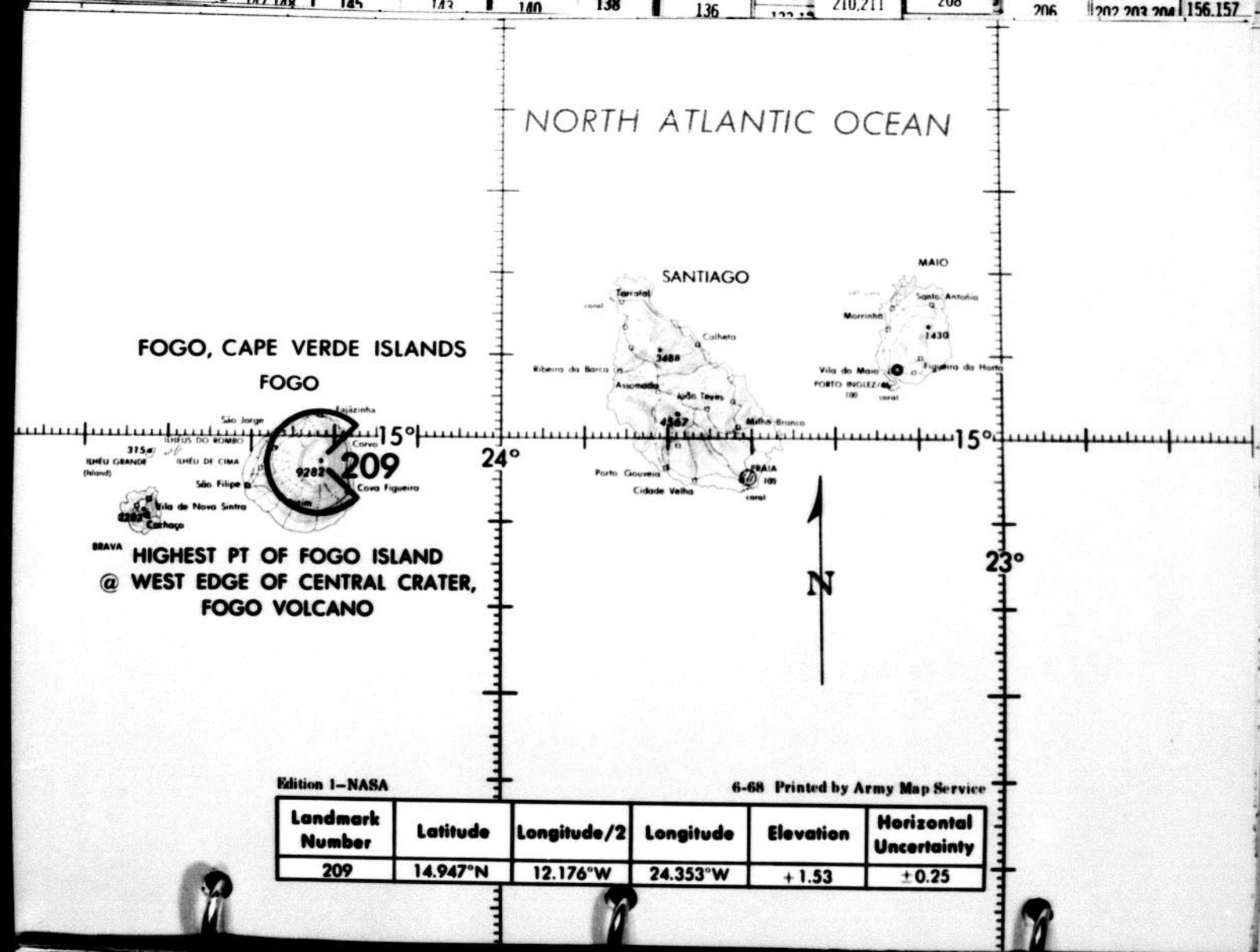


Edition 1–NASA

6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
208	20.770°N	8.526°W	17.053°W	0	±0.18

209
210.211



Edition 1–NASA

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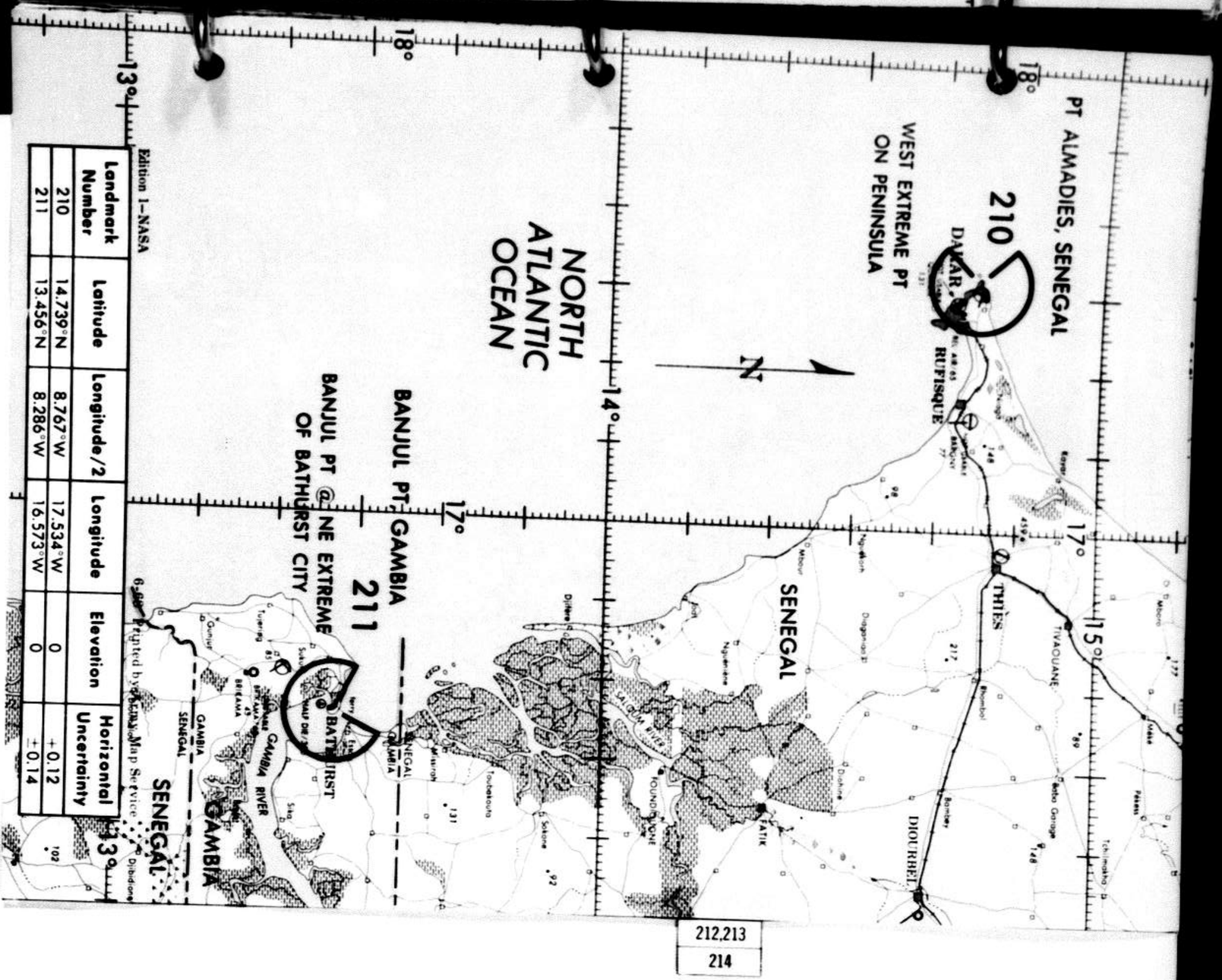
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
209	14.947°N	12.176°W	24.353°W	+1.53	±0.25

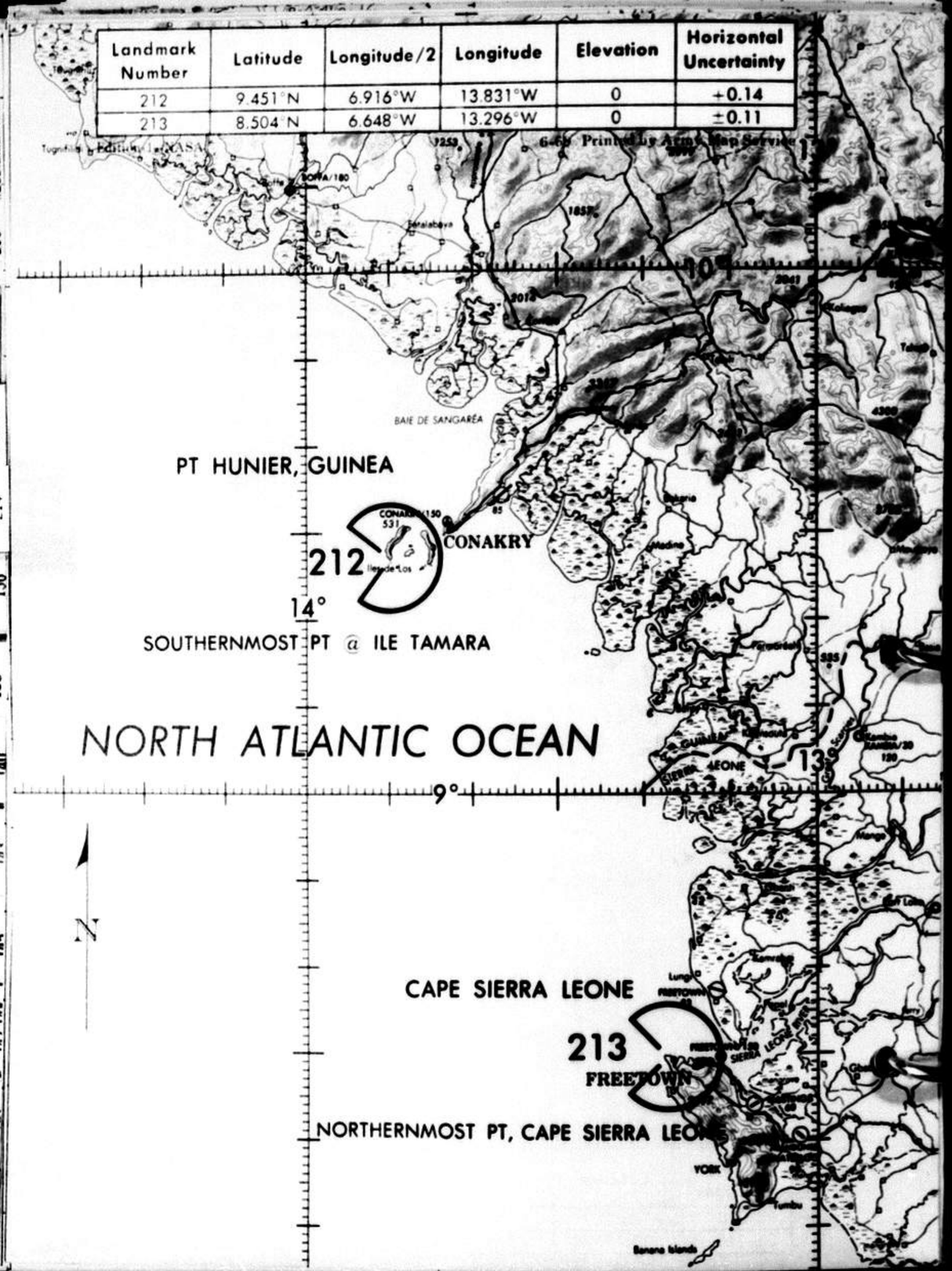


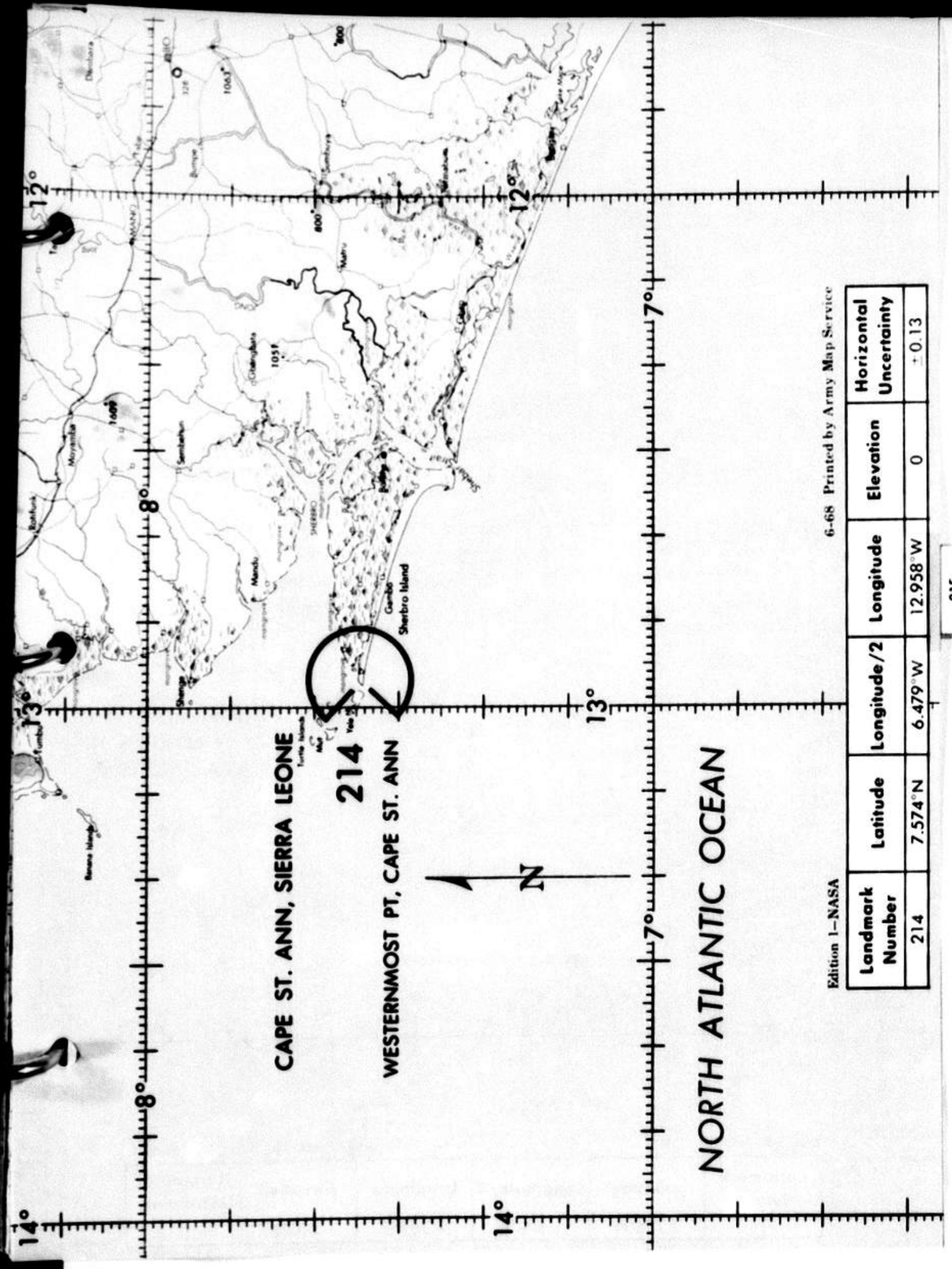
Edition 1–NASA

6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
210	14.739°N	8.767°W	17.534°W	0	+0.12
211	13.456°N	8.286°W	16.573°W	0	±0.14

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
212	9.451°N	6.916°W	13.831°W	0	±0.14
213	8.504°N	6.648°W	13.296°W	0	±0.11



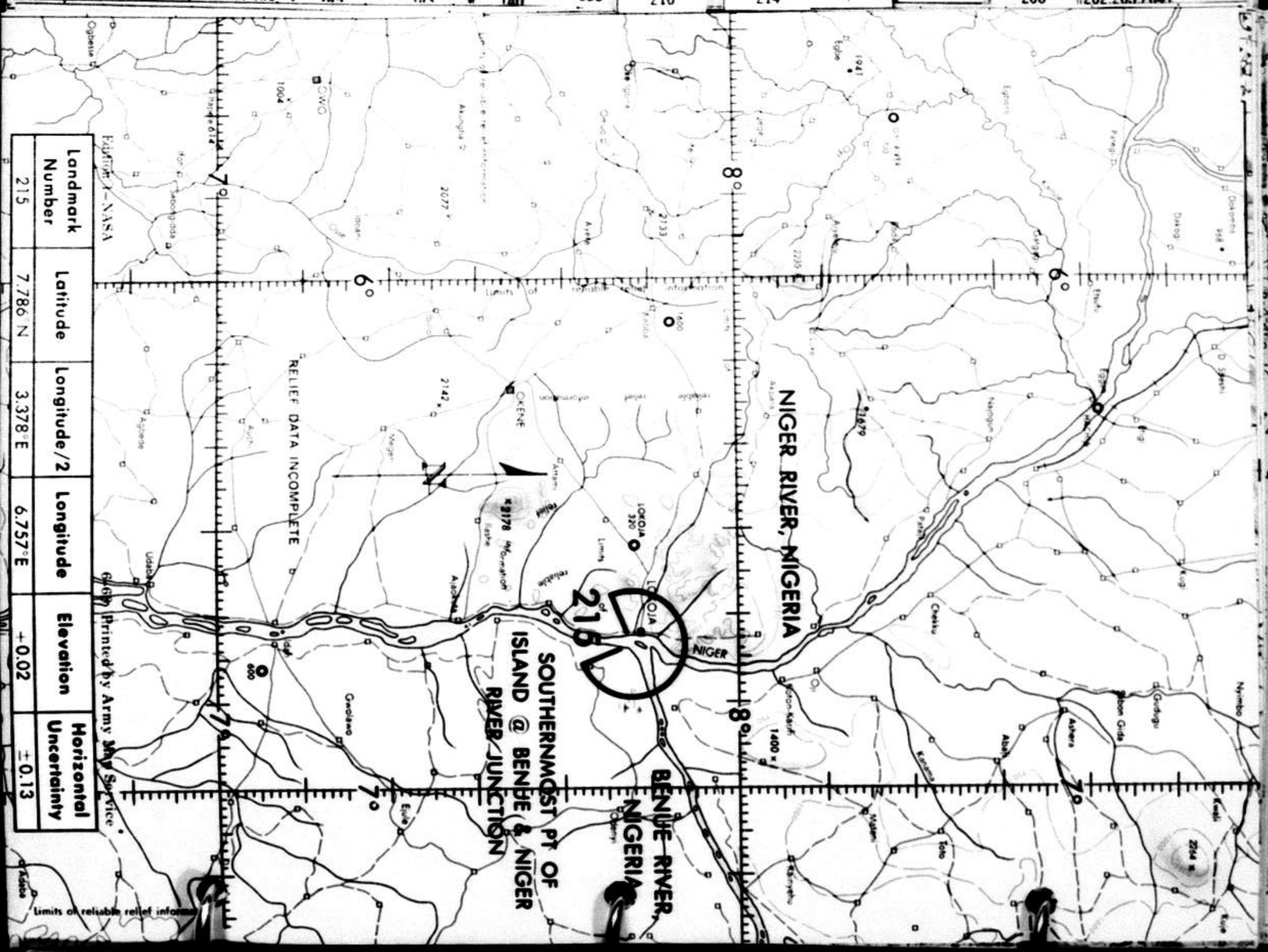


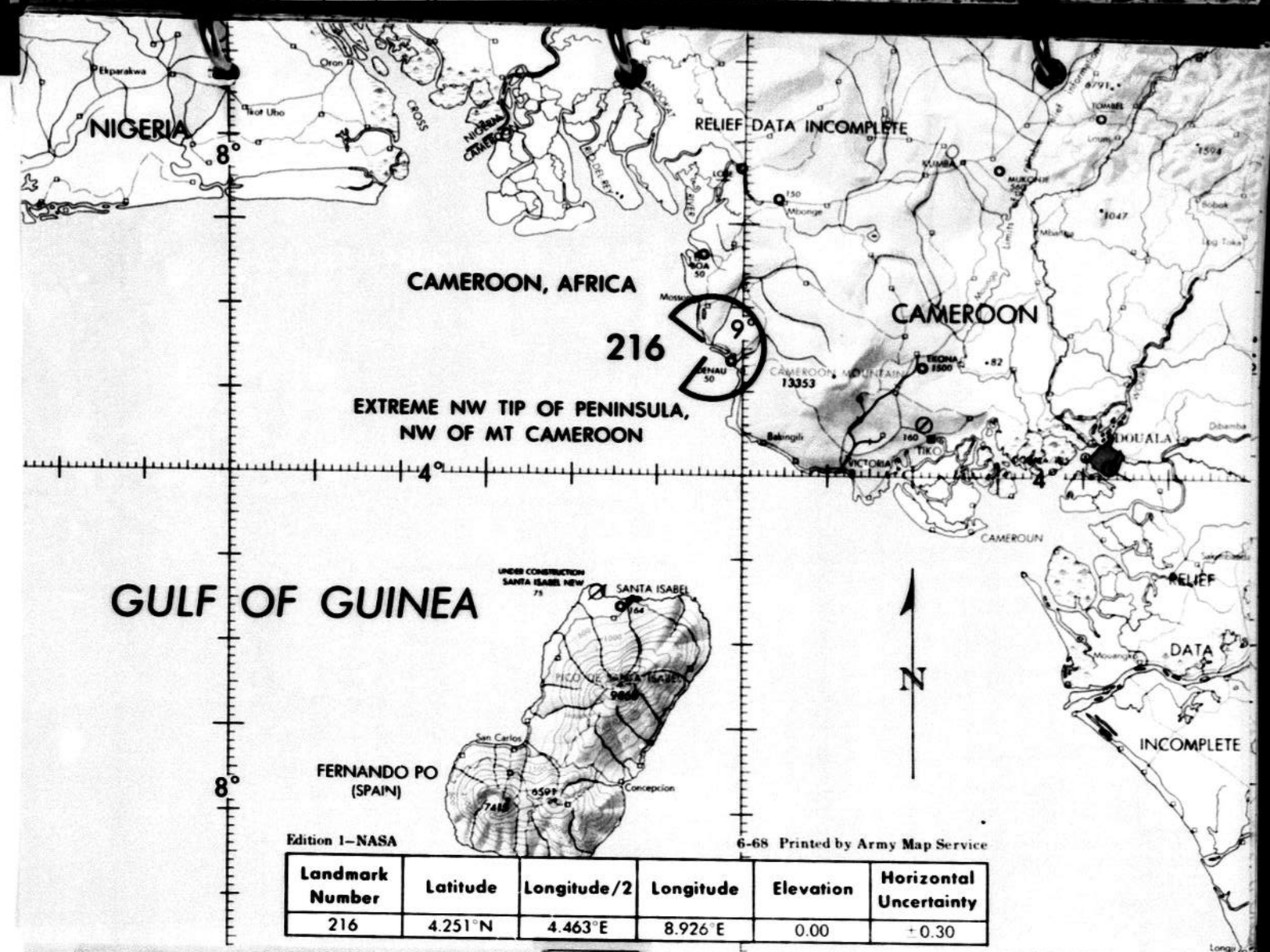
6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
214	7.574°N	6.479°W	12.958°W	0	±0.13

Edition 1-NASA

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
215	7.786°N	3.378°E	6.757°E	±0.02	±0.13





Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
216	4.251°N	4.463°E	8.926°E	0.00	±0.30

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
217	.357°N	4.678°E	9.355°E	0.00	±0.22
218	.620°S	4.358°E	8.716°E	0.00	±0.18

Edition 1–NASA

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PT PONGARA, GABON

217

NORTH TIP OF SHORELINE ON ESTUARY

PT ODDEN, GABON

218

NORTH TIP OF CAPE LOPEZ PENINSULA

GULF OF GUINEA

Landmark Number	Latitude	Longitude	Longitude/2	Elevation	Horizontal Uncertainty
219	3.389°S	10.663°E	5.332°E	0.00	±0.30

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CONGO

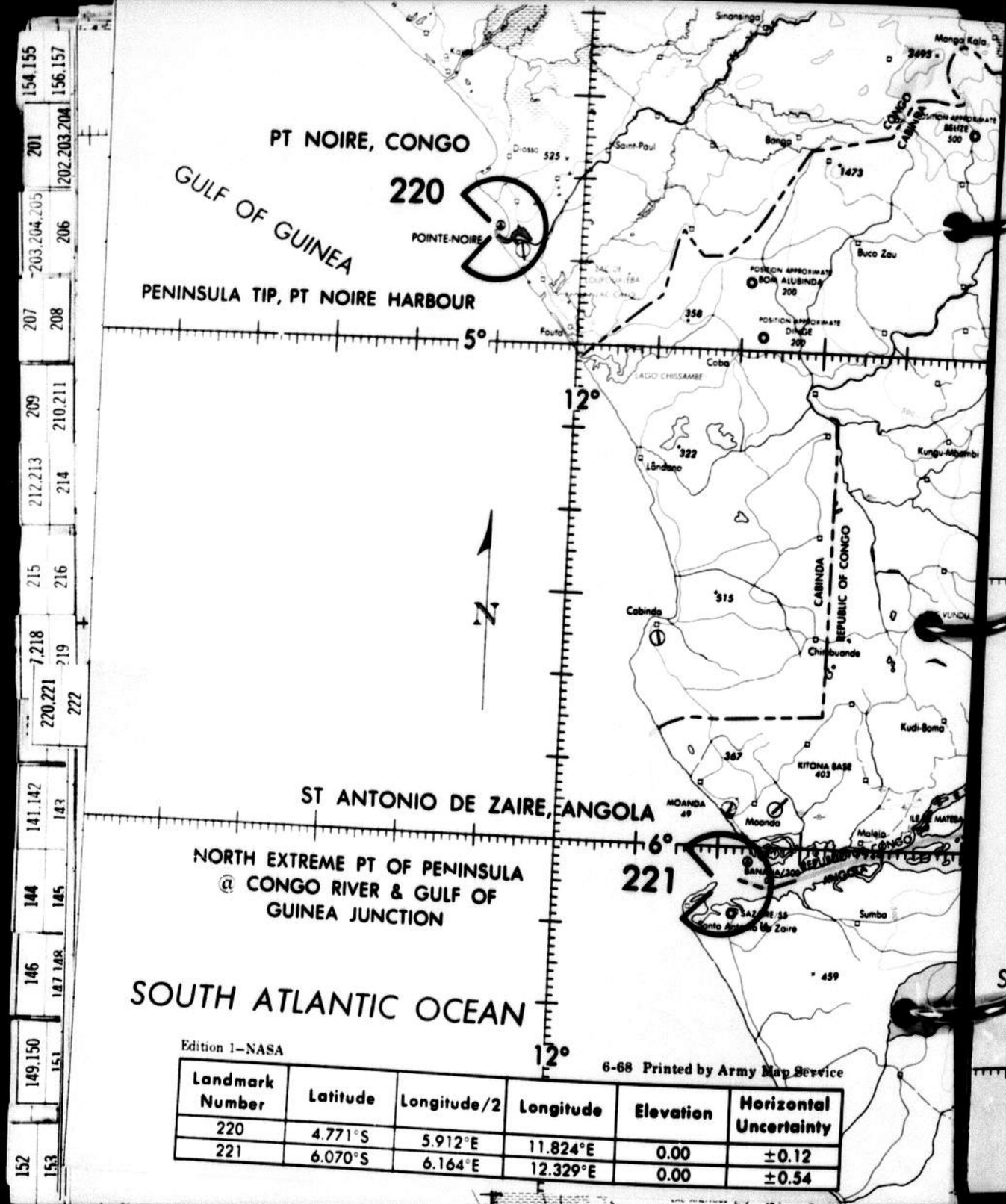
GABON

MAYOUMBA, GABON

219

EXTREME NORTH TIP OF SAND BAR BEYOND MAYOUMBA CITY

GULF OF GUINEA



Edition 1–NASA

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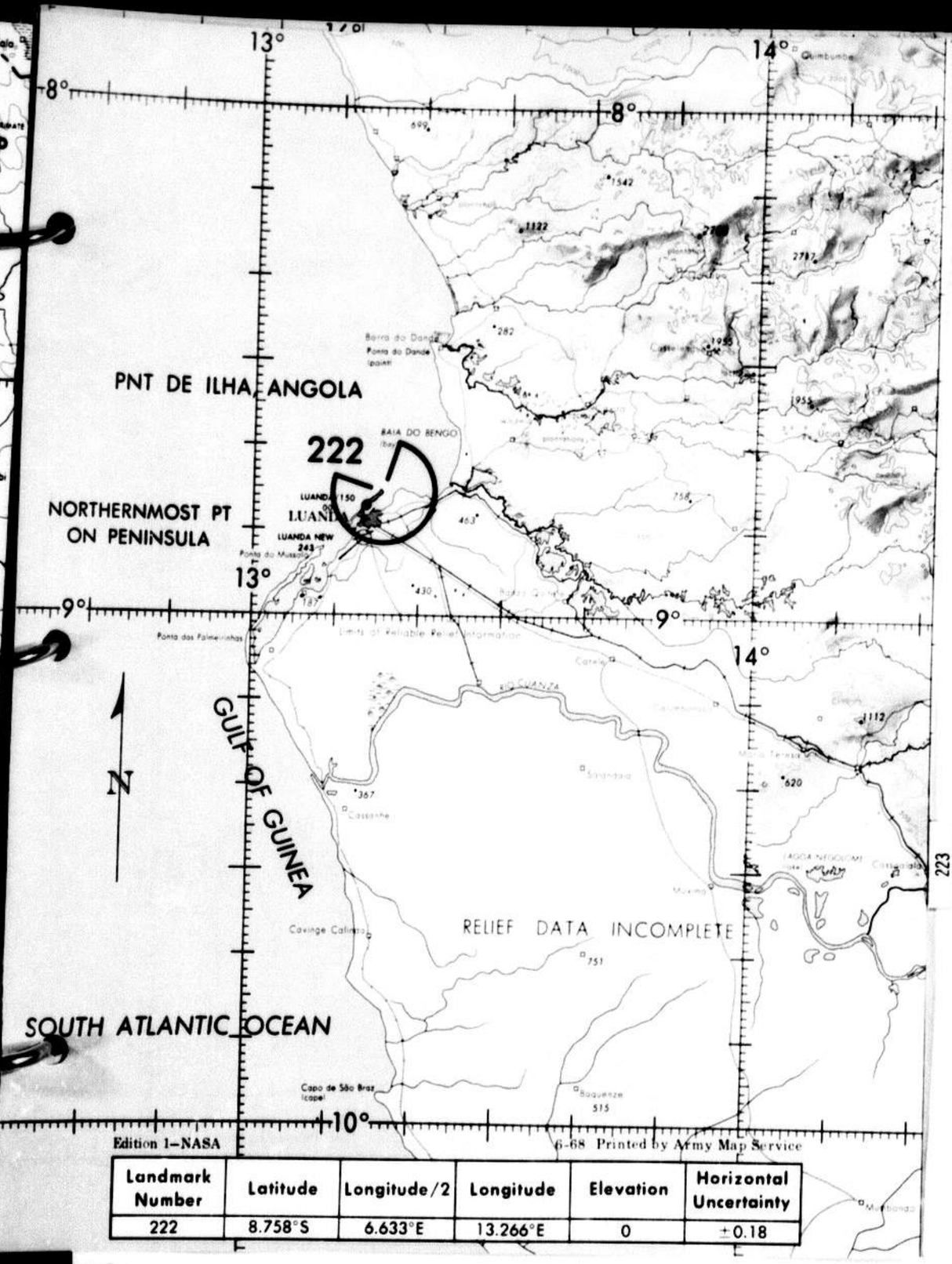
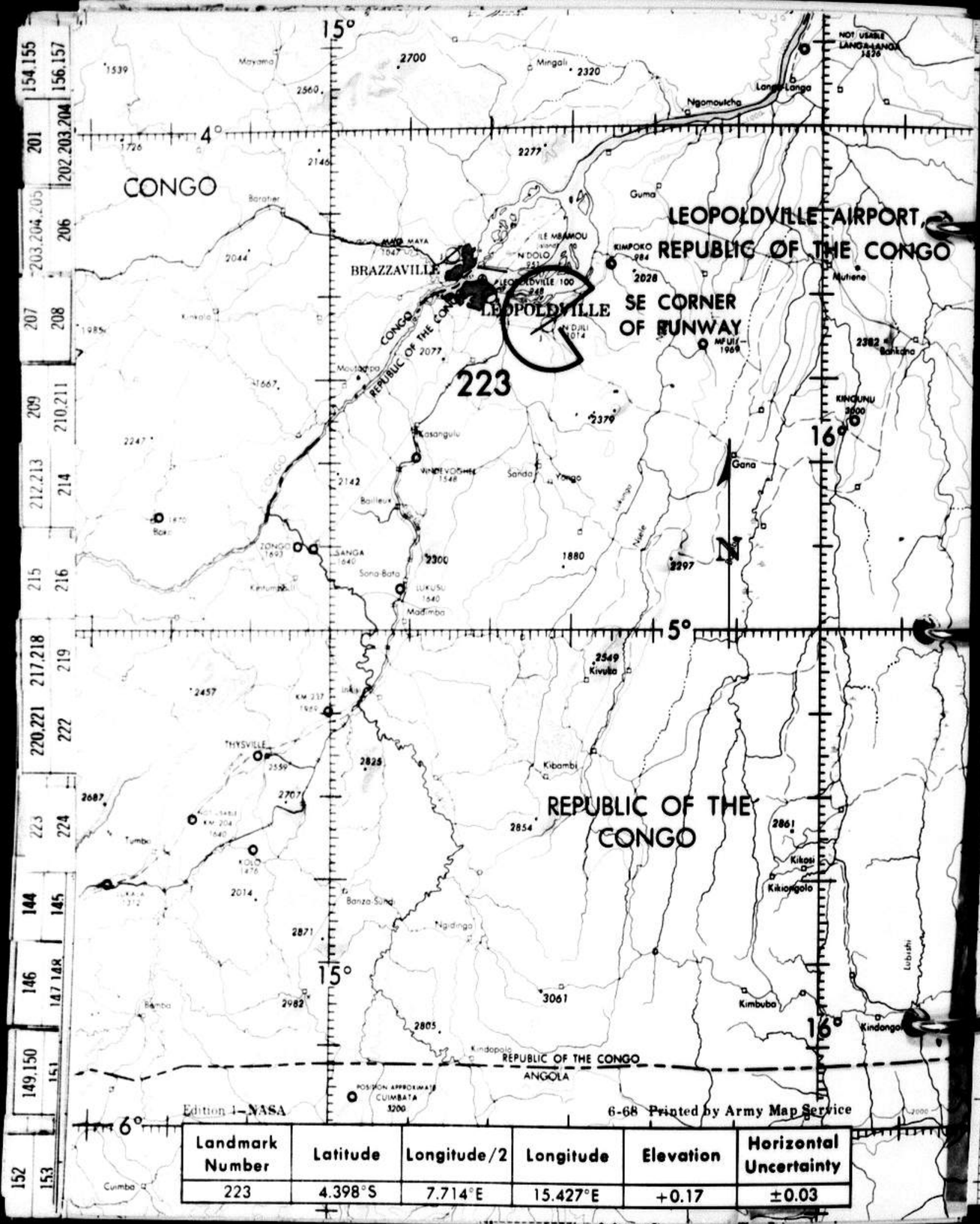
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
220	4.771°S	5.912°E	11.824°E	0.00	±0.12
221	6.070°S	6.164°E	12.329°E	0.00	±0.54



Edition 1–NASA

6-68 Printed by Army Map Service

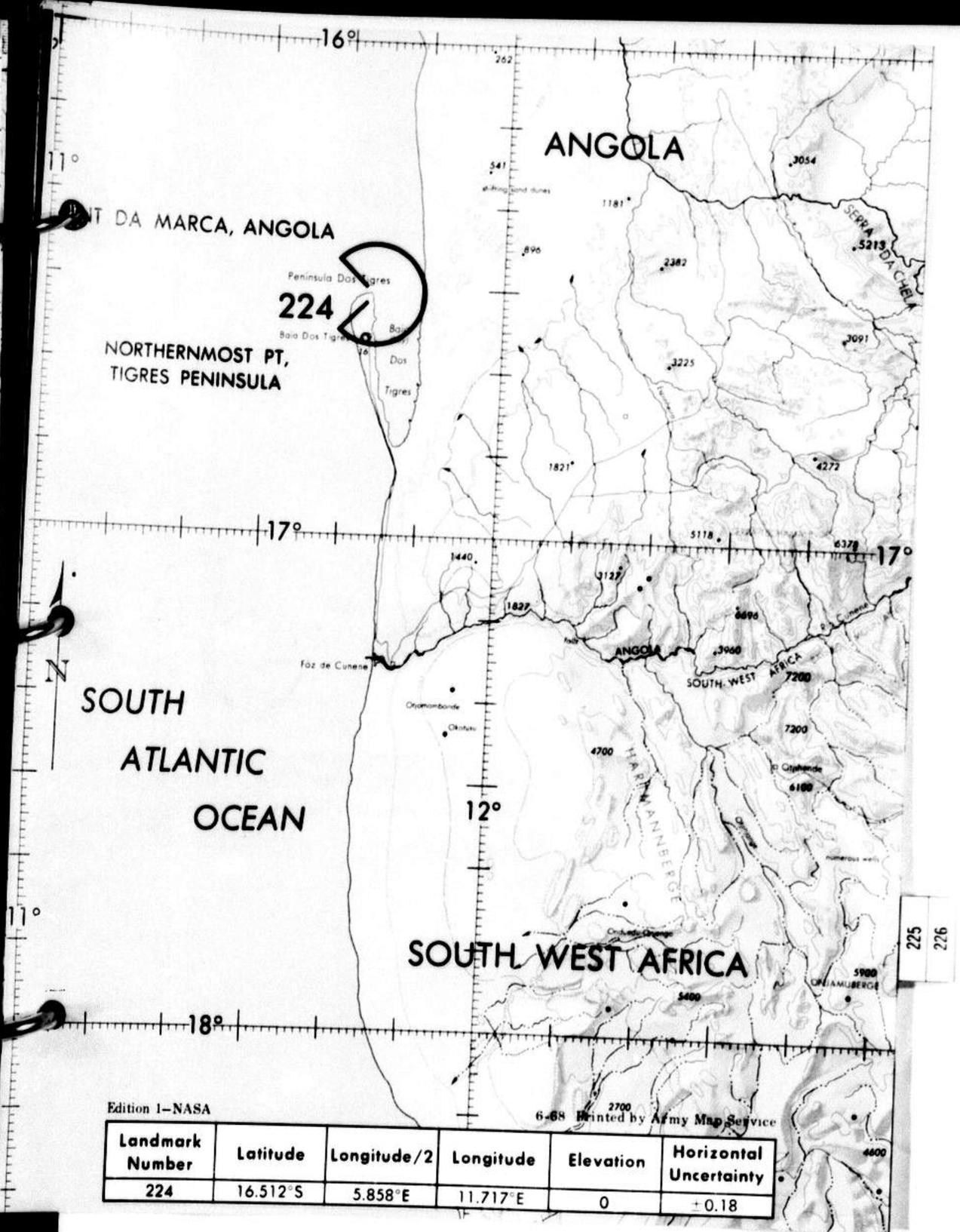
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
222	8.758°S	6.633°E	13.266°E	0	±0.18



Edition 1–NASA

6-68 Printed by Army Map Service

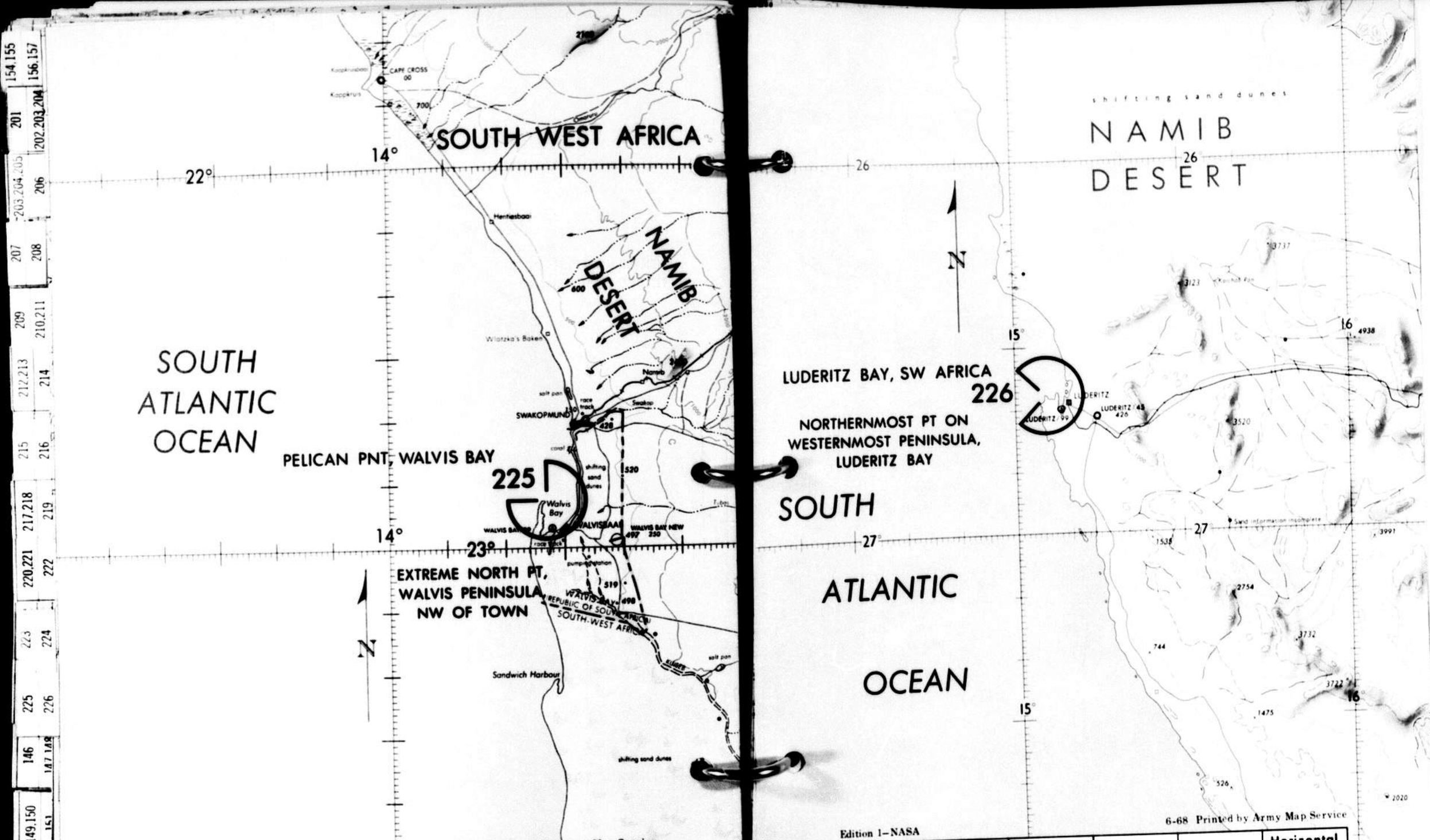
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
223	4.398°S	7.714°E	15.427°E	+0.17	±0.03



Edition 1–NASA

6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
224	16.512°S	5.858°E	11.717°E	0	±0.18



Edition 1–NASA

6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
225	22.882°S	7.222°E	14.445°E	0	±0.16

Edition 1–NASA

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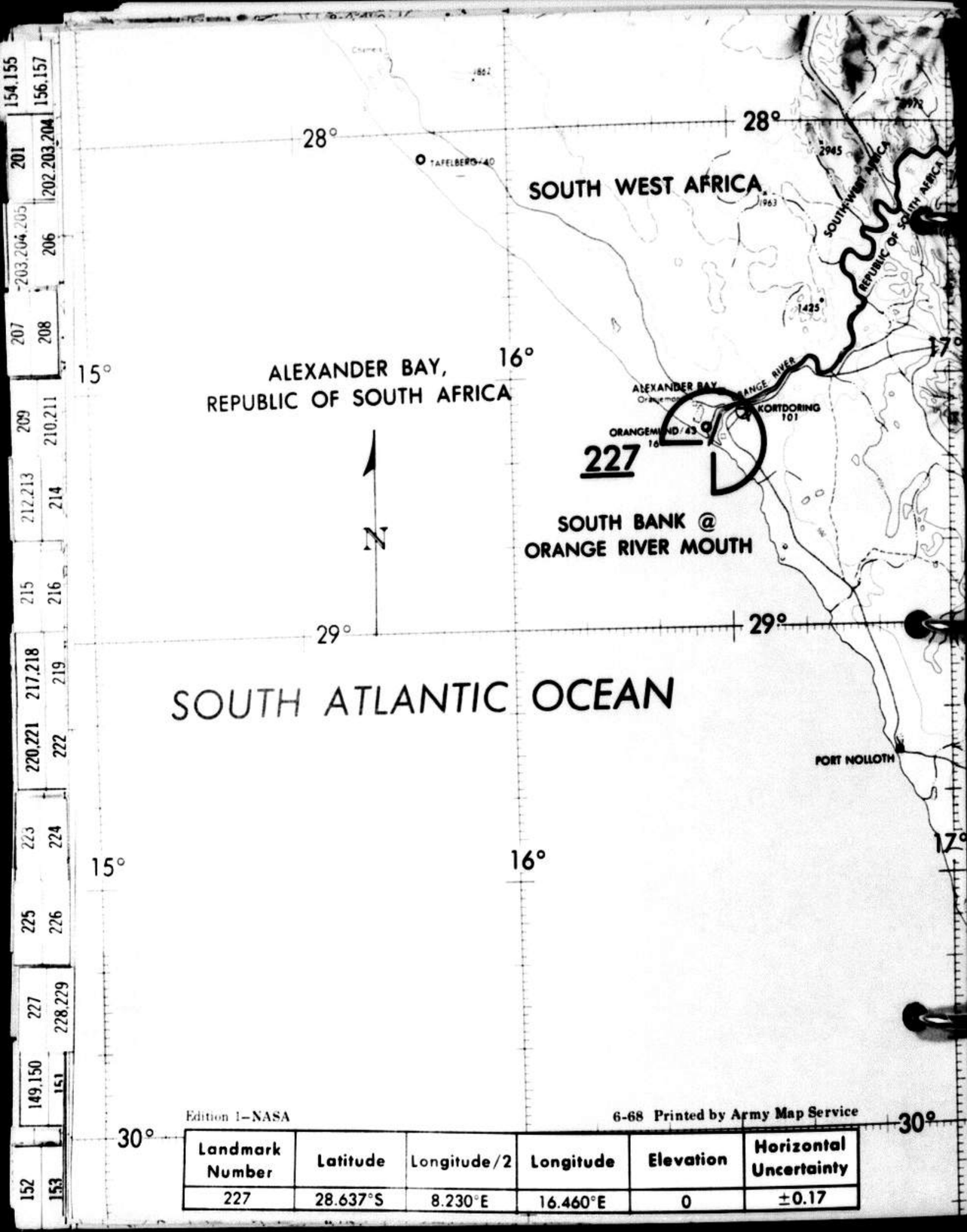
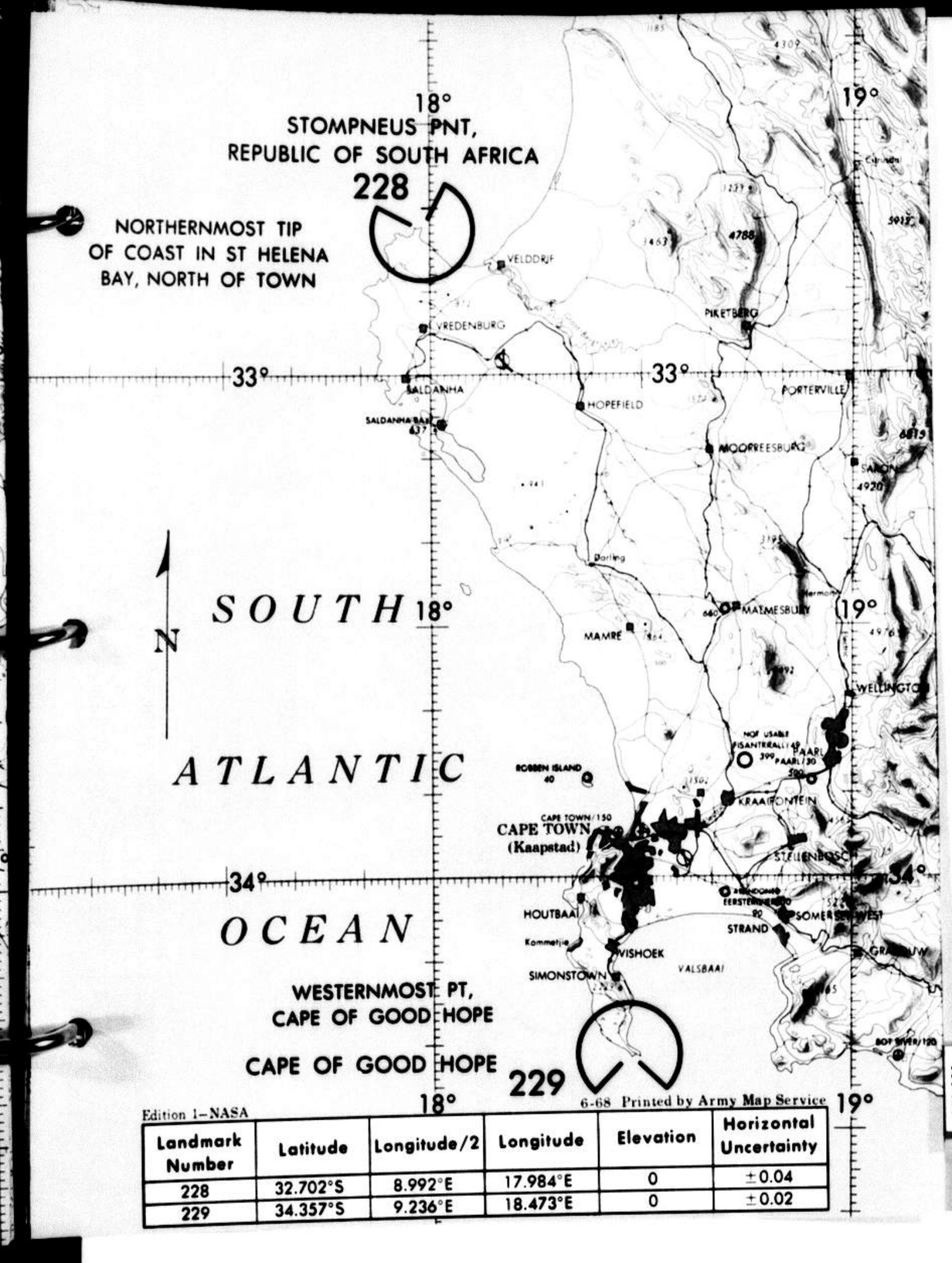
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
226	26.631°S	7.546°E	15.092°E	0	±0.54



Edition 1–NASA

6-68 Printed by Army Map Service

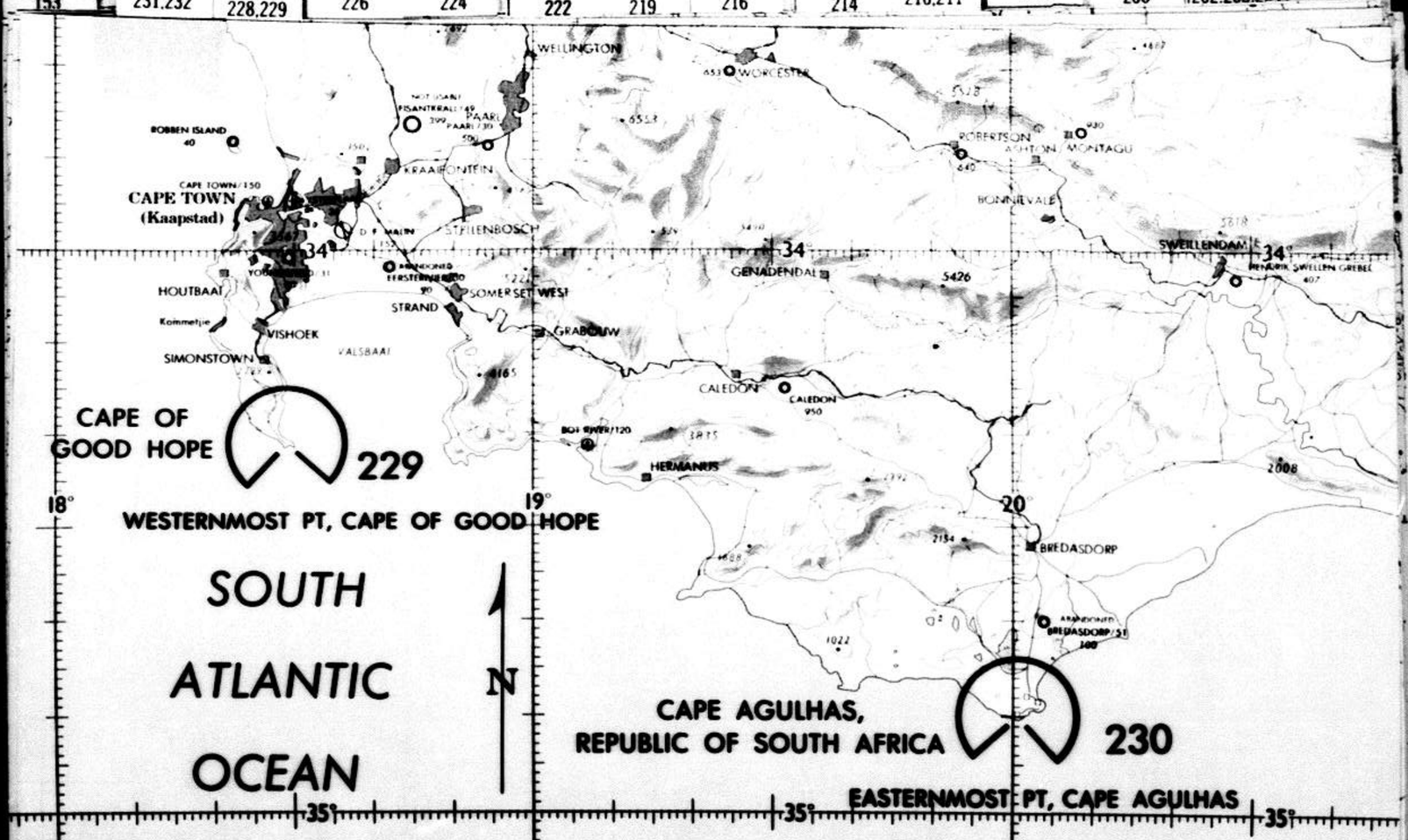
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
227	28.637°S	8.230°E	16.460°E	0	±0.17



Edition 1–NASA

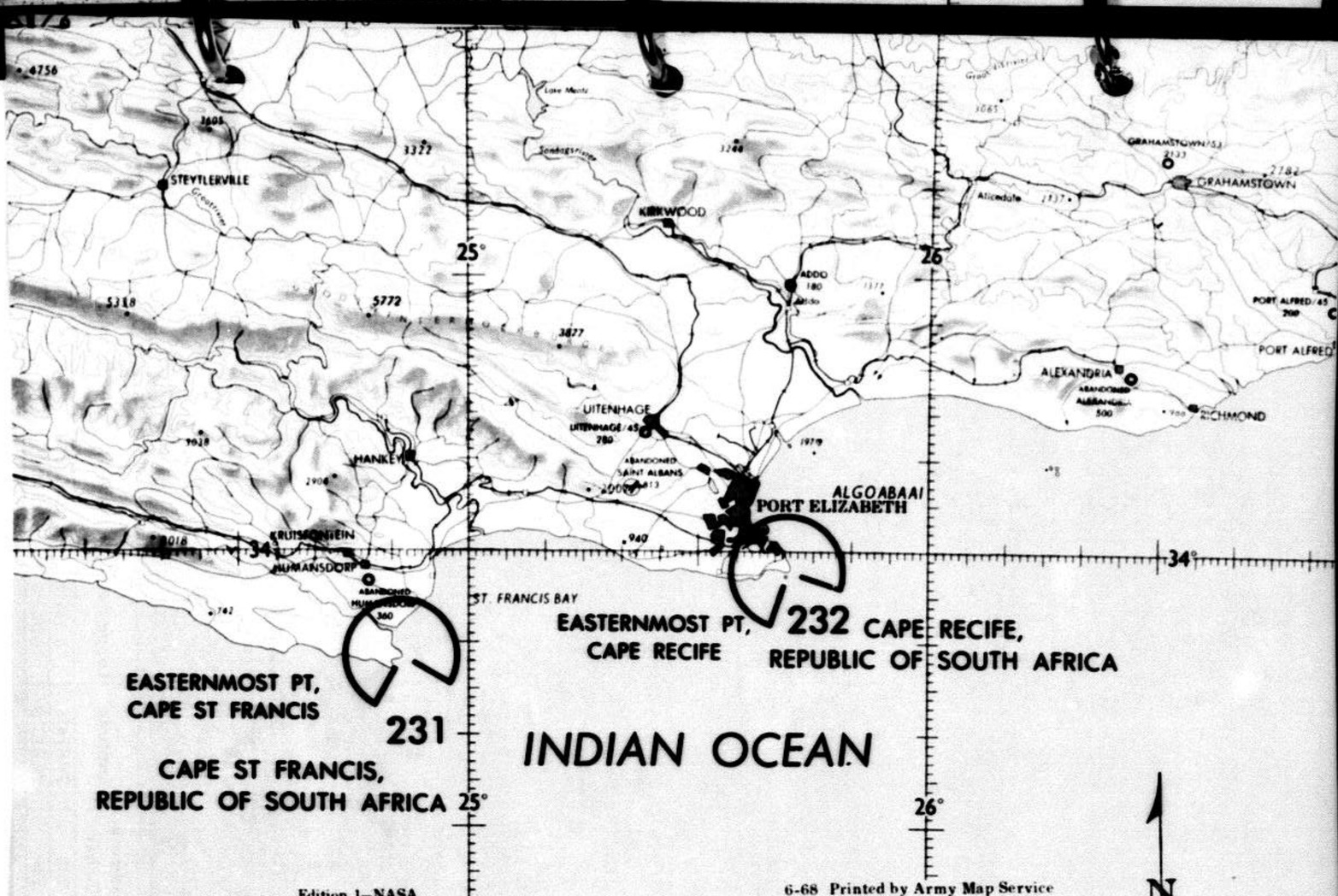
6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
228	32.702°S	8.992°E	17.984°E	0	±0.04
229	34.357°S	9.236°E	18.473°E	0	±0.02



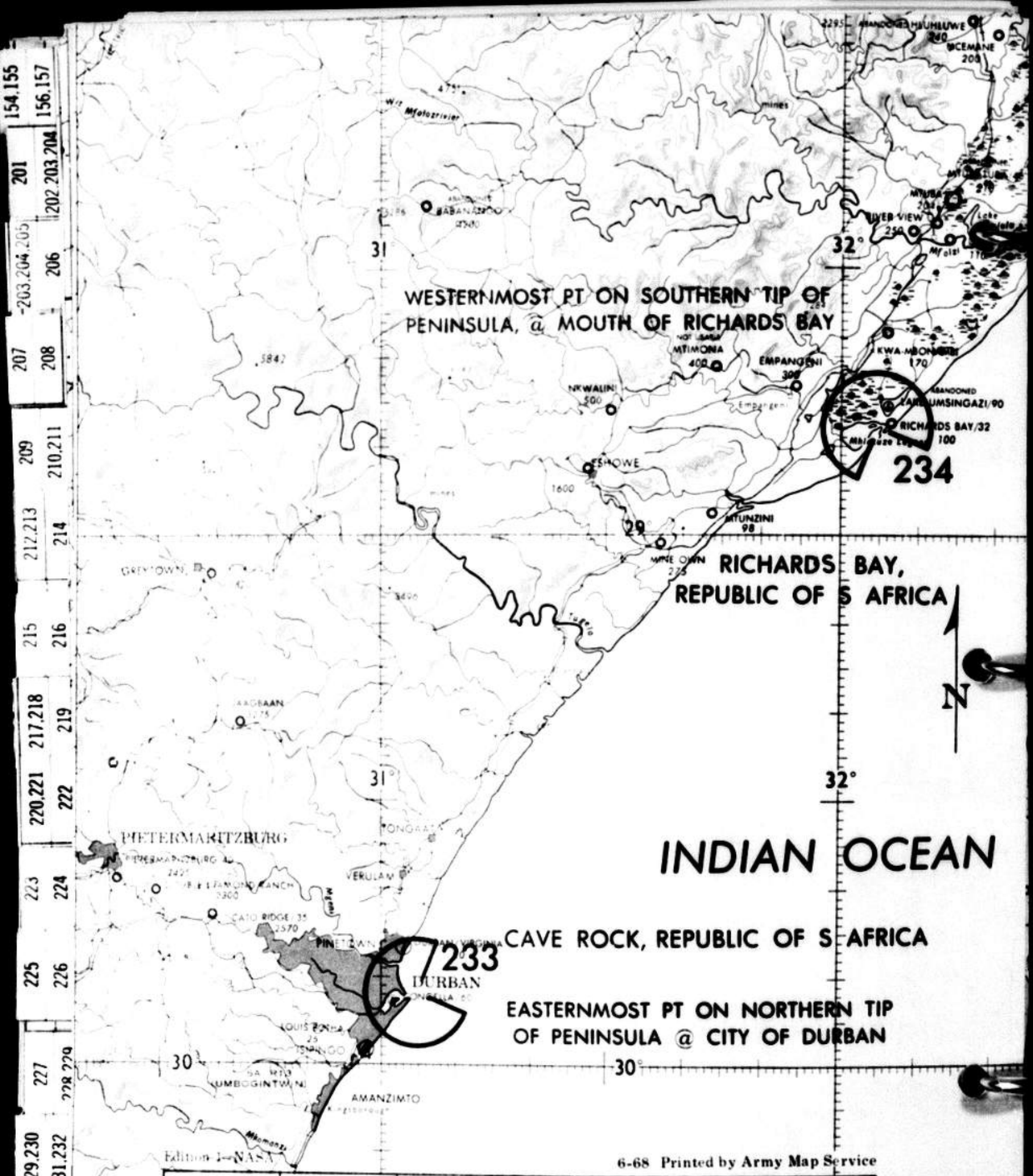
Edition 1—NASA 6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
229	34.357°S	9.236°E	18.473°E	0.00	±0.02
230	34.832°S	10.008°E	20.015°E	0.00	±0.04

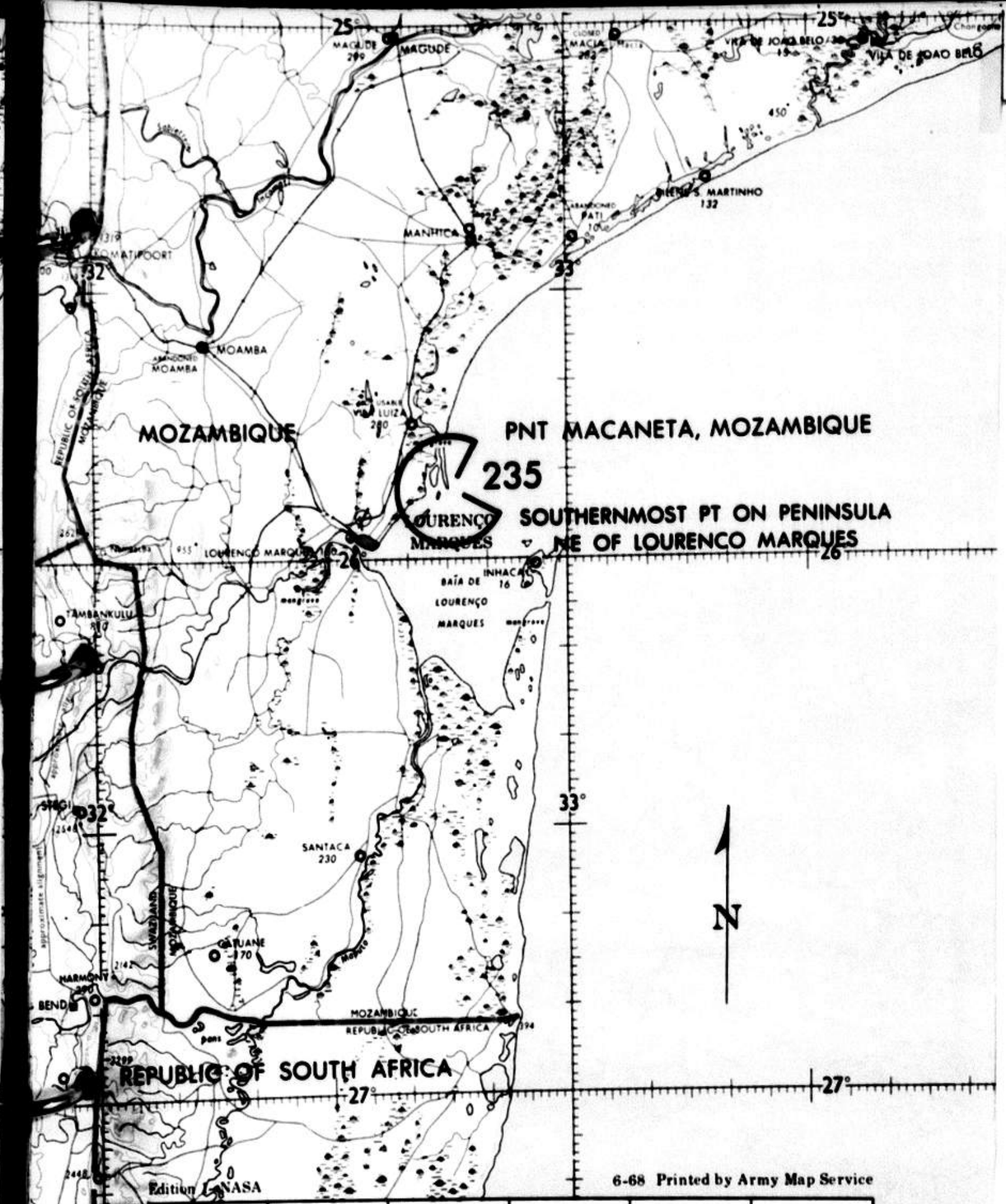


Edition 1—NASA 6-68 Printed by Army Map Service

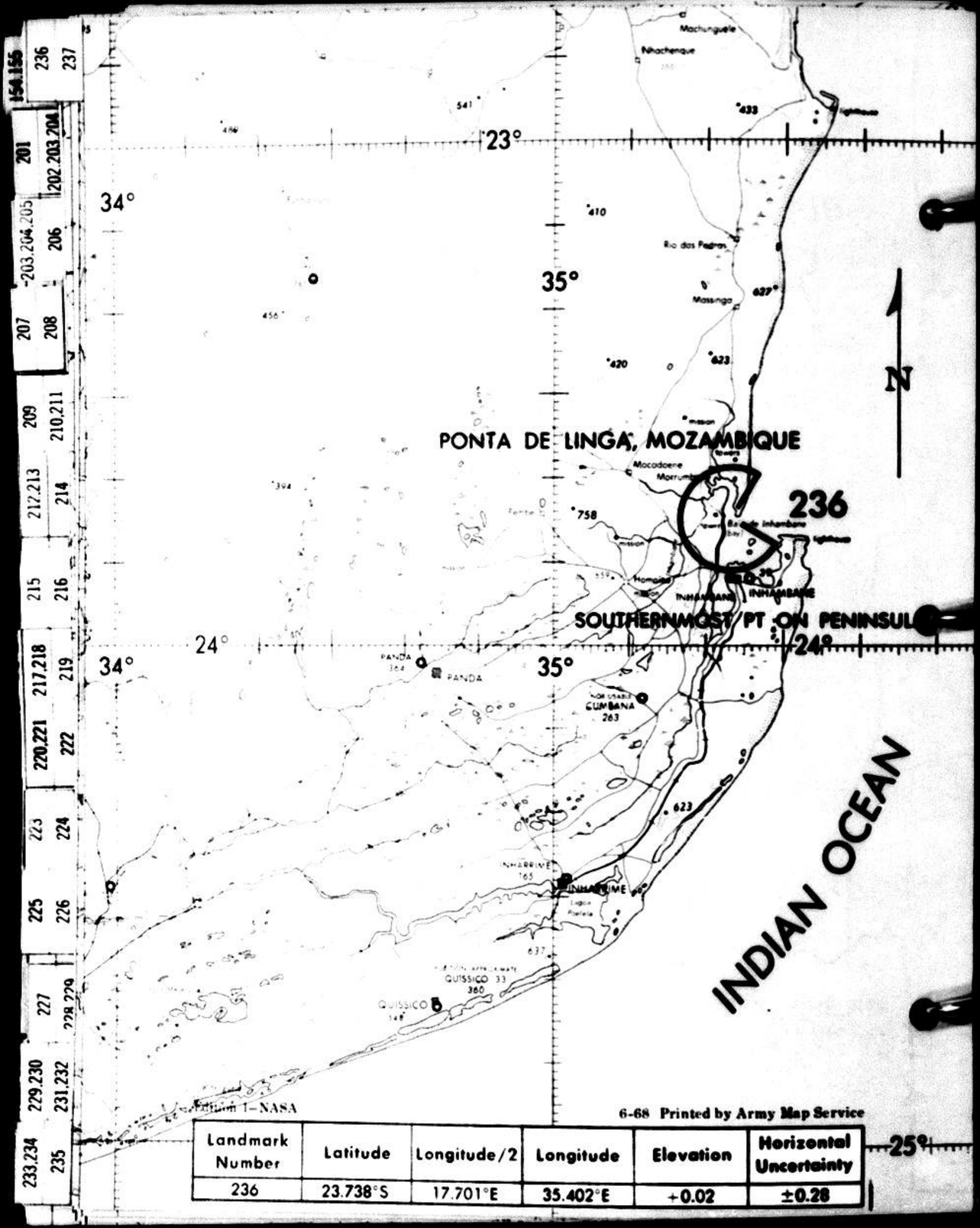
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
231	34.197°S	12.436°E	24.872°E	+.02	±0.03
232	34.029°S	12.853°E	25.706°E	+.02	±0.03



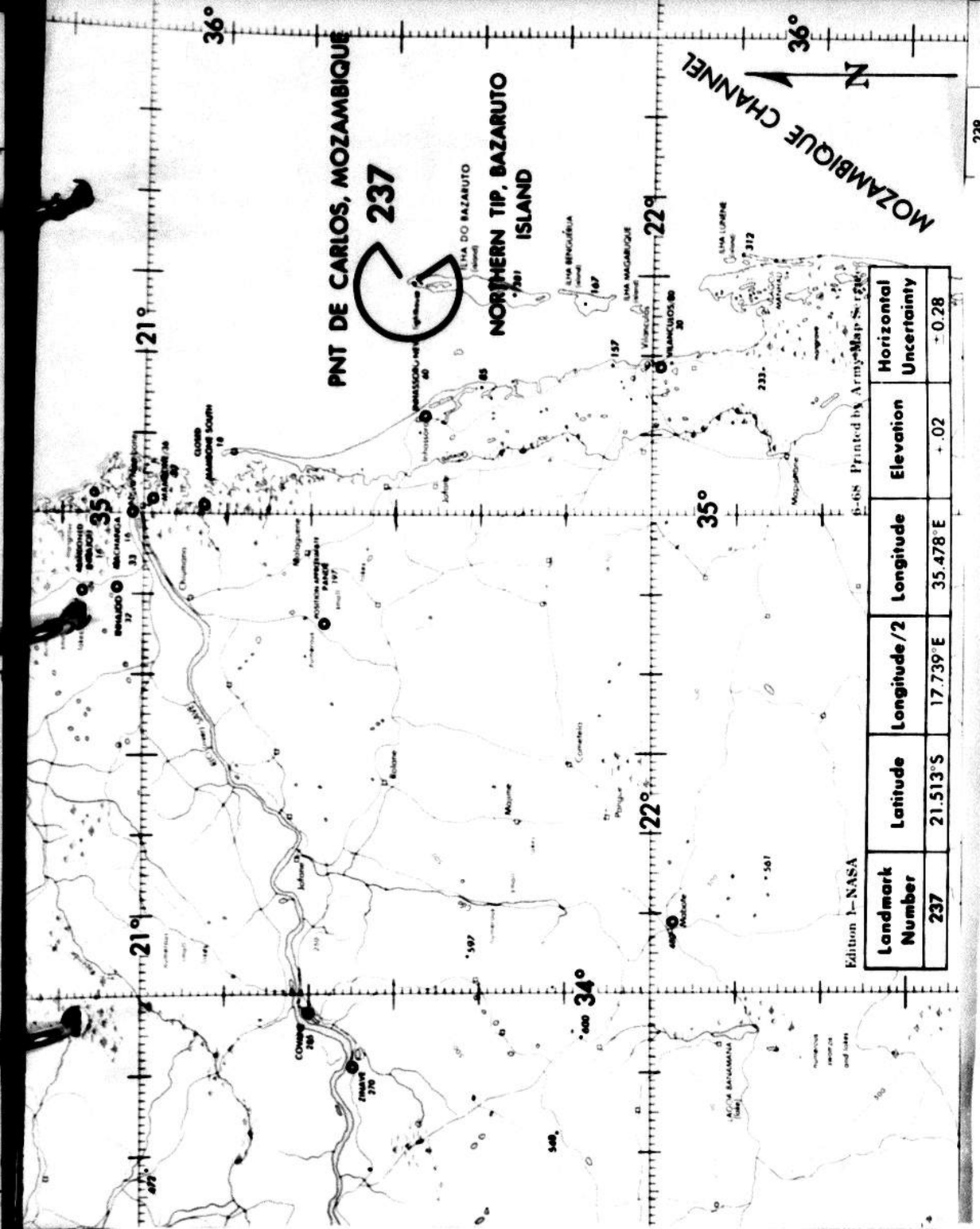
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
233	29.874°S	15.531°E	31.062°E	+.02	±0.04
234	28.813°S	16.042°E	32.084°E	+.02	±0.04



Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
235	25.869°S	16.376°E	32.752°E	+.02	±0.28

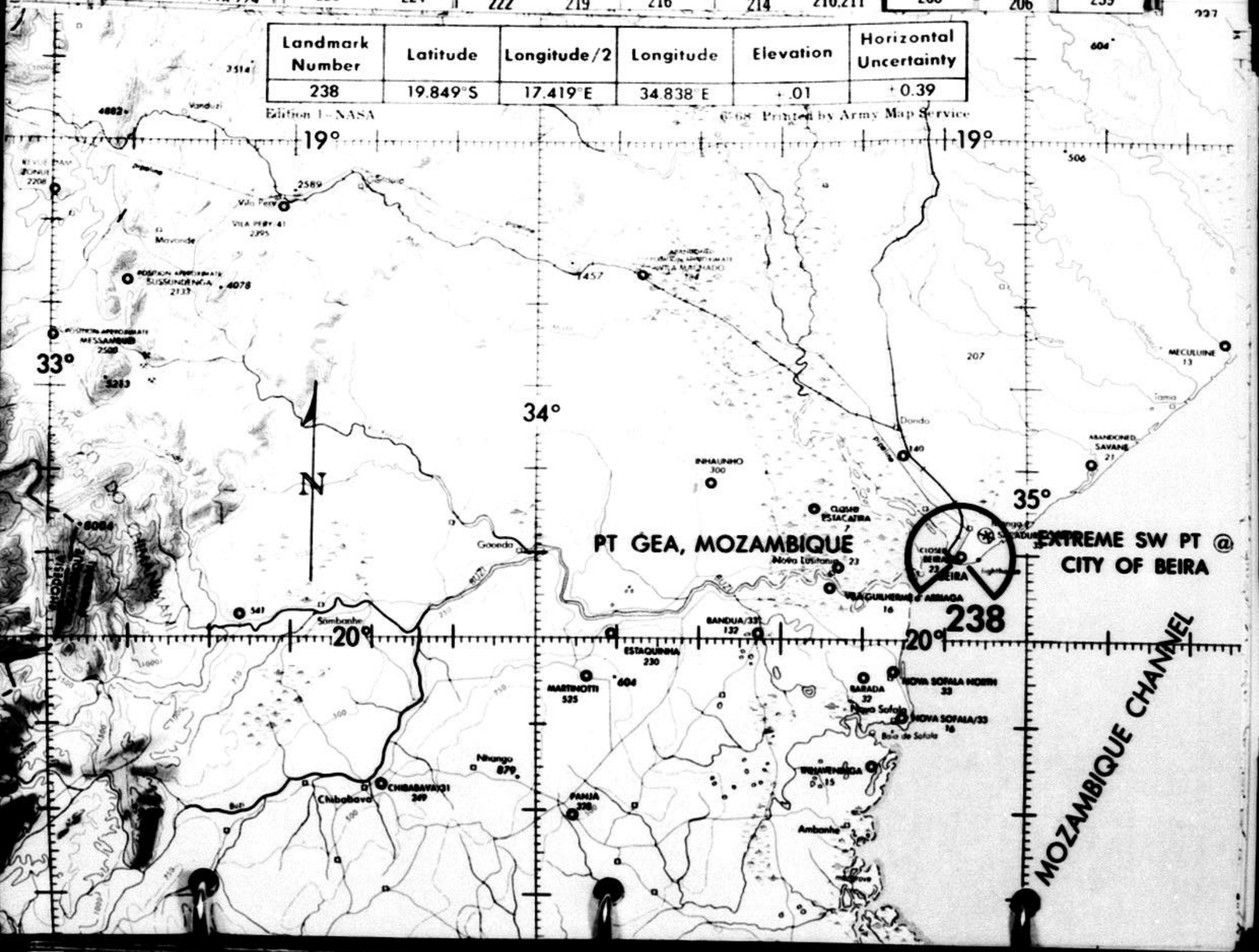


Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
236	23.738°S	17.701°E	35.402°E	+0.02	±0.28

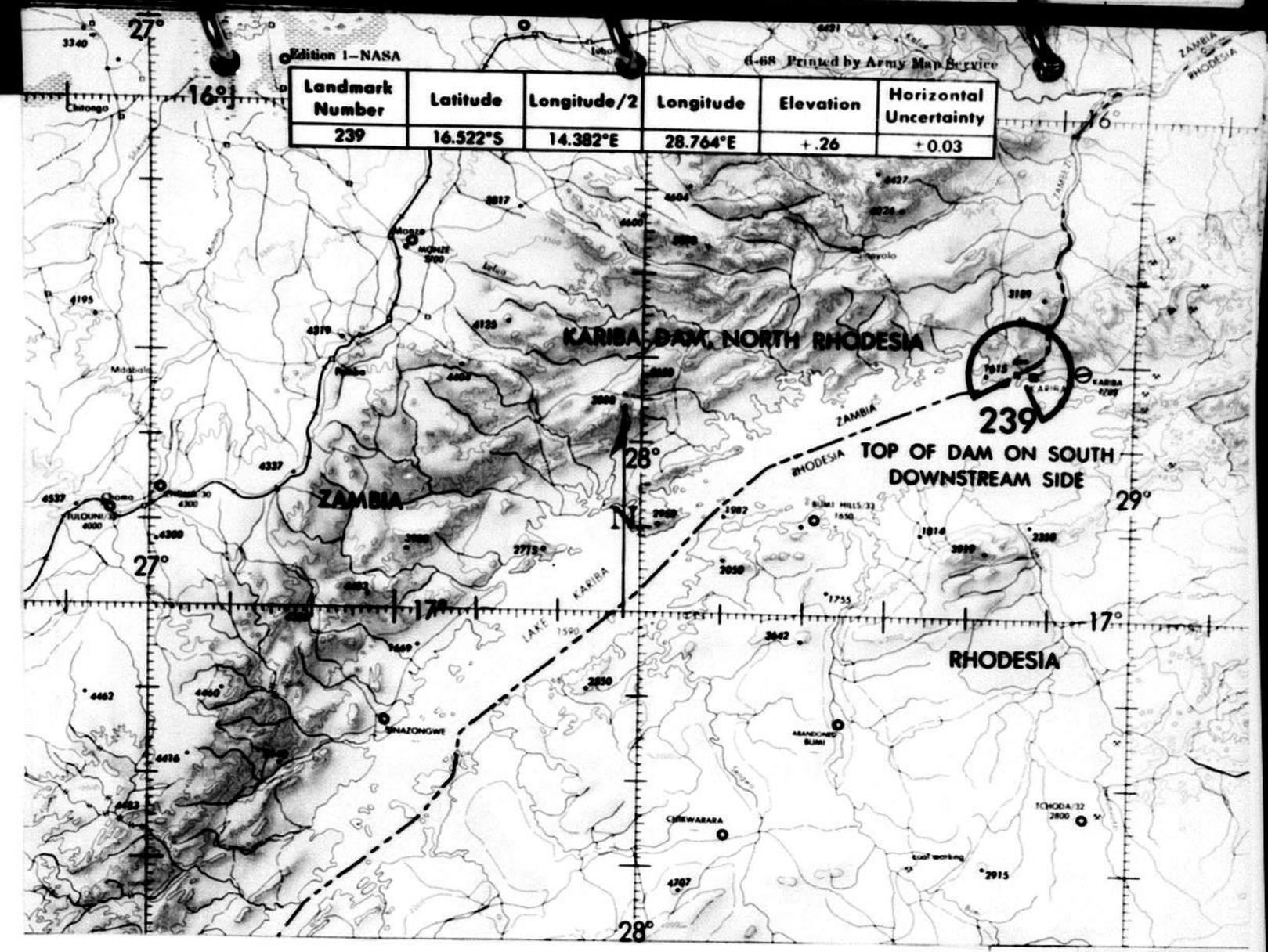


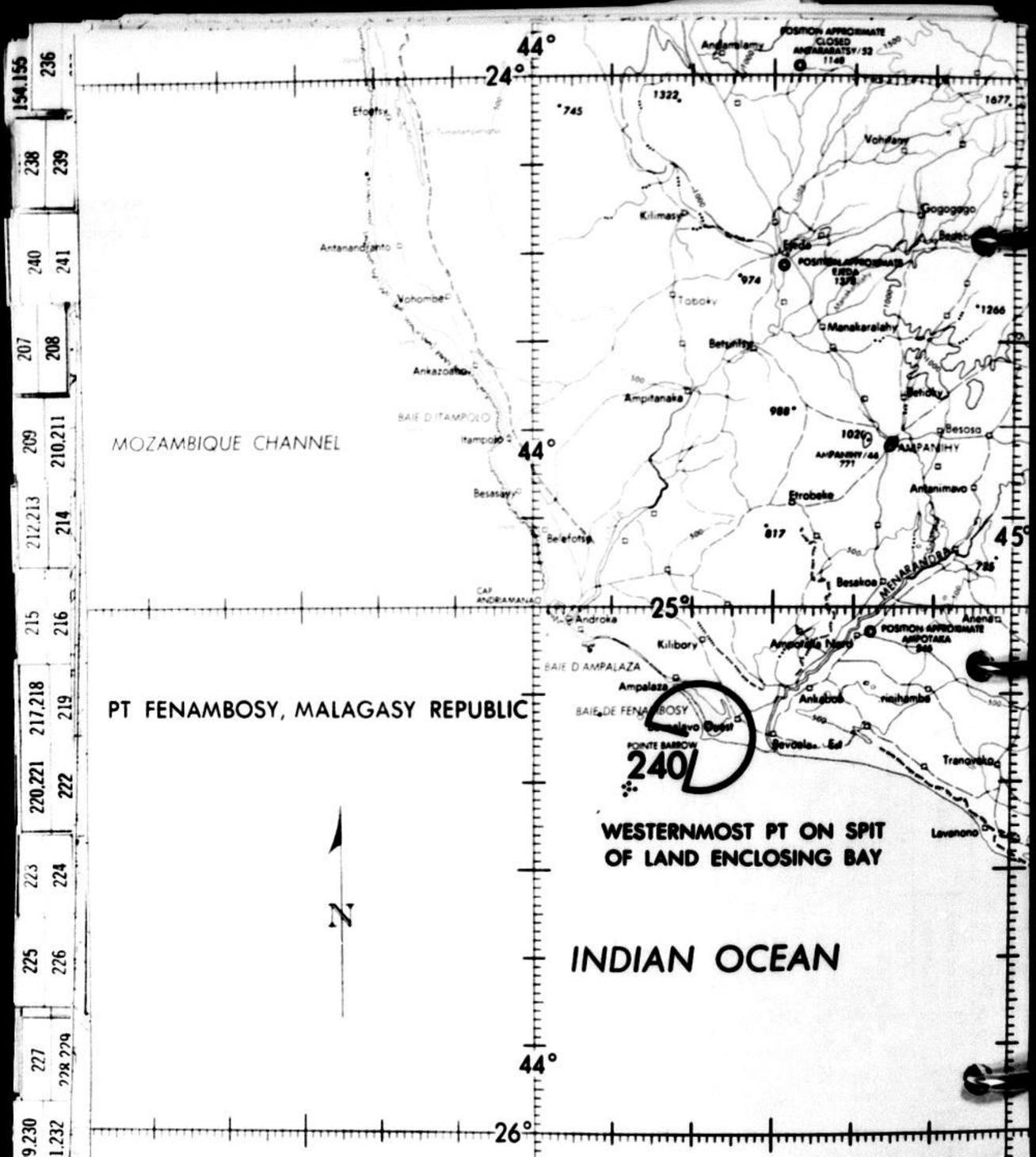
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
237	21.513°S	17.739°E	35.478°E	+.02	±0.28

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
238	19.849°S	17.419°E	34.838°E	+.01	+0.39



Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
239	16.522°S	14.382°E	28.764°E	+.26	+0.03




MOZAMBIQUE CHANNEL
PT FENAMBOSY, MALAGASY REPUBLIC
WESTERNMOST PT ON SPIT
OF LAND ENCLOSING BAY
240
INDIAN OCEAN
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44°
24°
25°
26°
45°
Antananarivo
Tamatave
Fenerive
Ampanihy
Besakoe
Ankaboa
Tranoroko
Levanono
Vohitsara
Ambodiatafa
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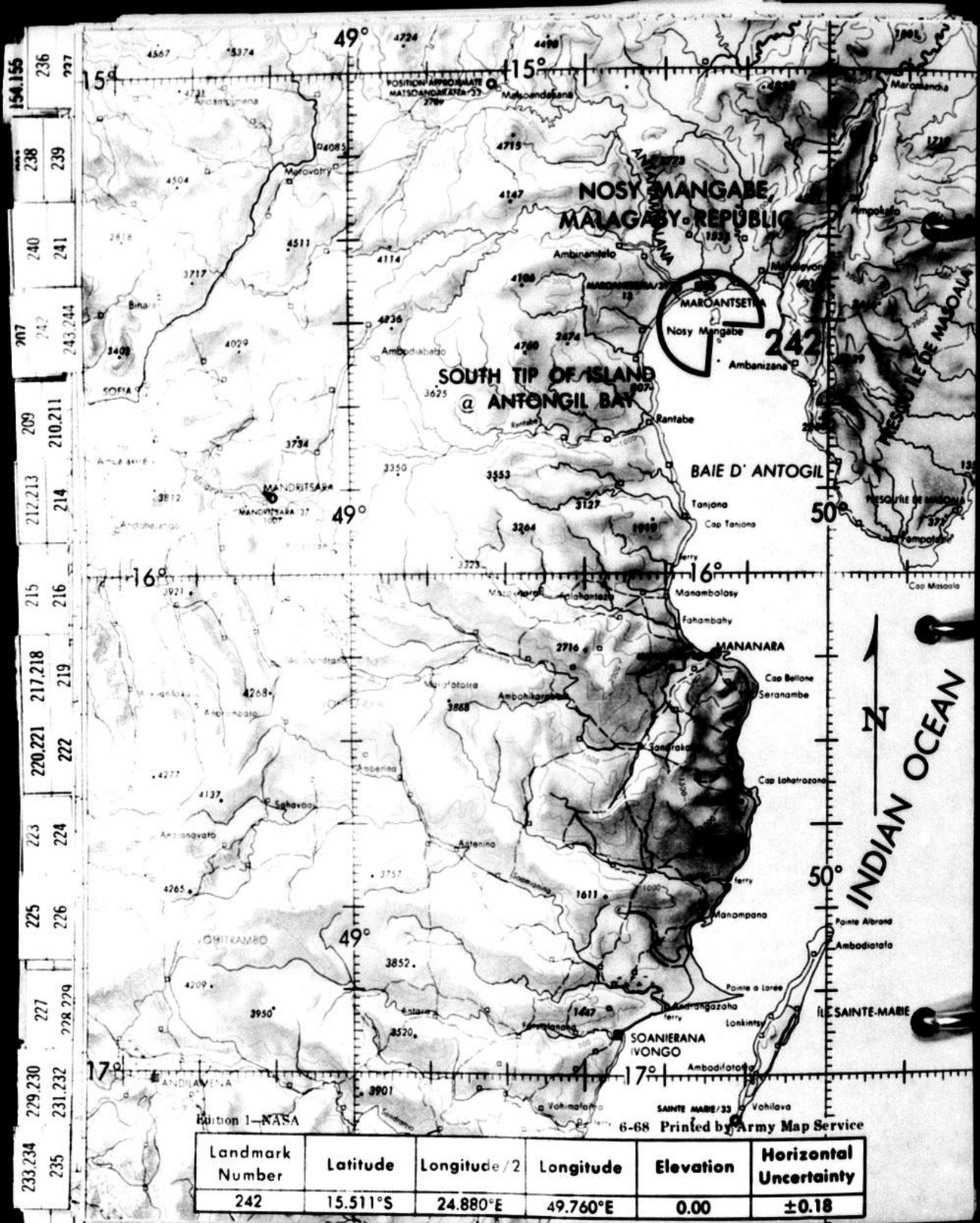
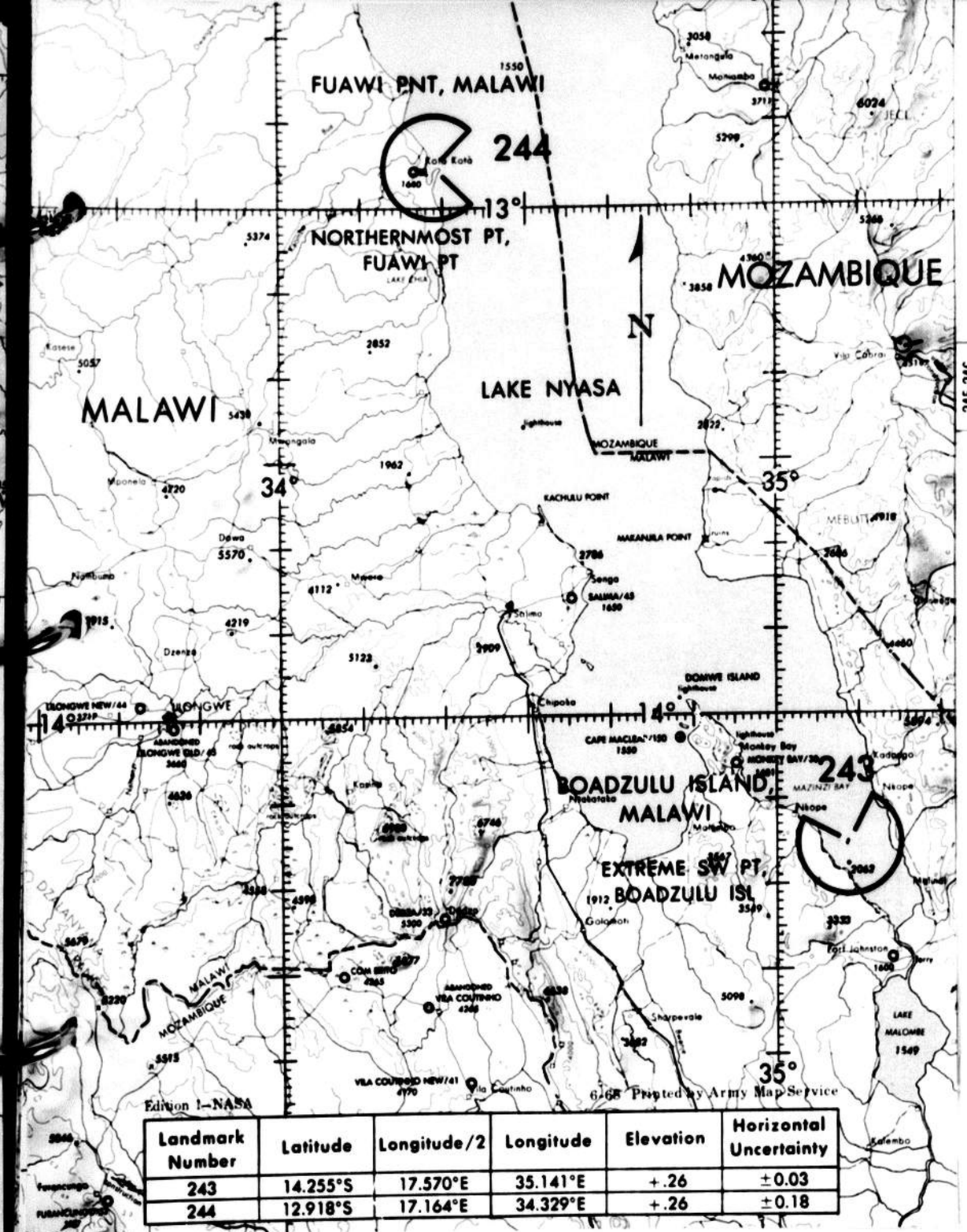


Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
242	15.511°S	24.880°E	49.760°E	0.00	±0.18



Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
243	14.255°S	17.570°E	35.141°E	+.26	±0.03
244	12.918°S	17.164°E	34.329°E	+.26	±0.18

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
245	12.381°S	22.258°E	44.517°E	0.00	±0.16
246	11.756°S	21.680°E	43.359°E	±1.27	±0.16

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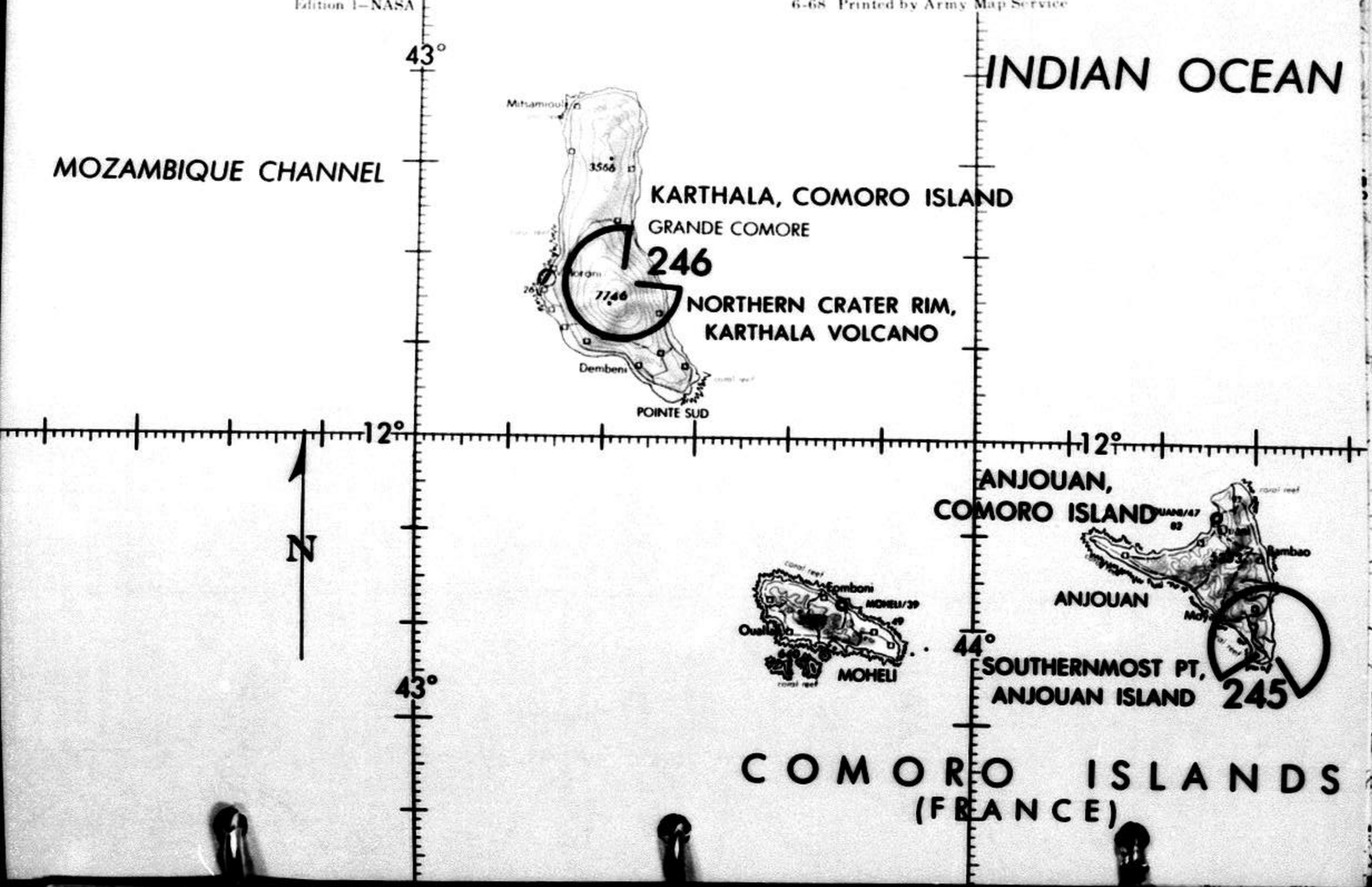

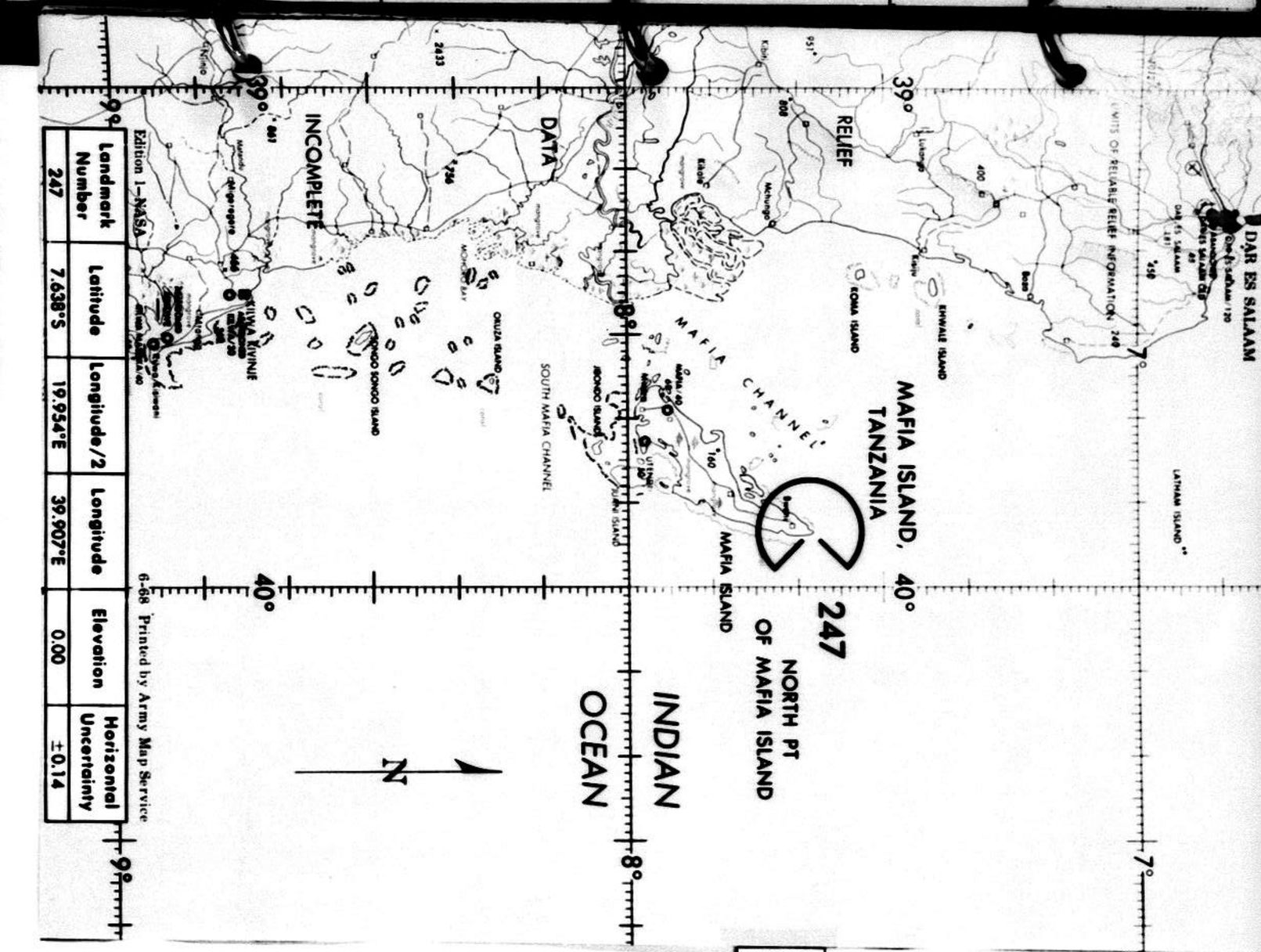

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
247	7.638°S	19.954°E	39.907°E	0.00	±0.14

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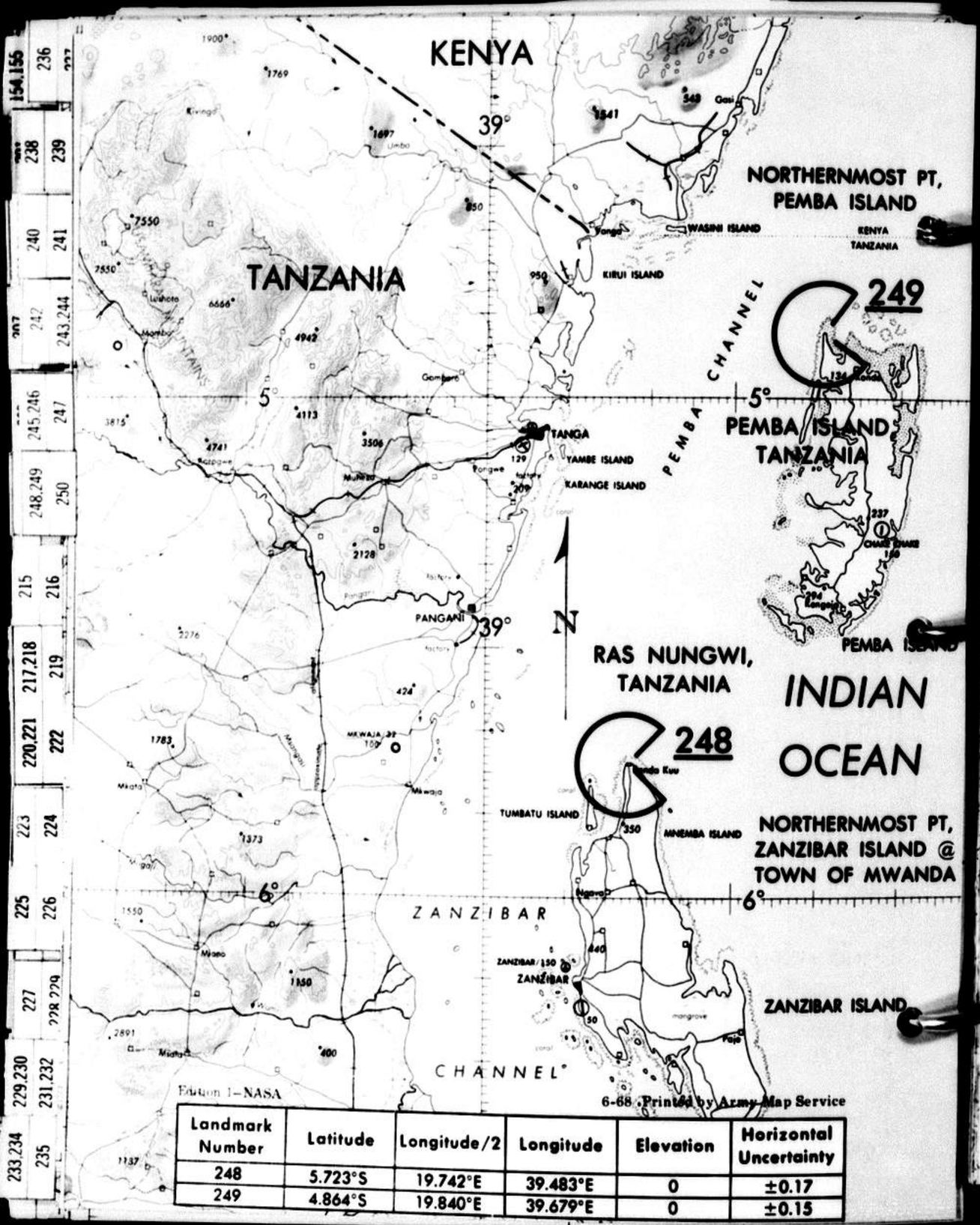
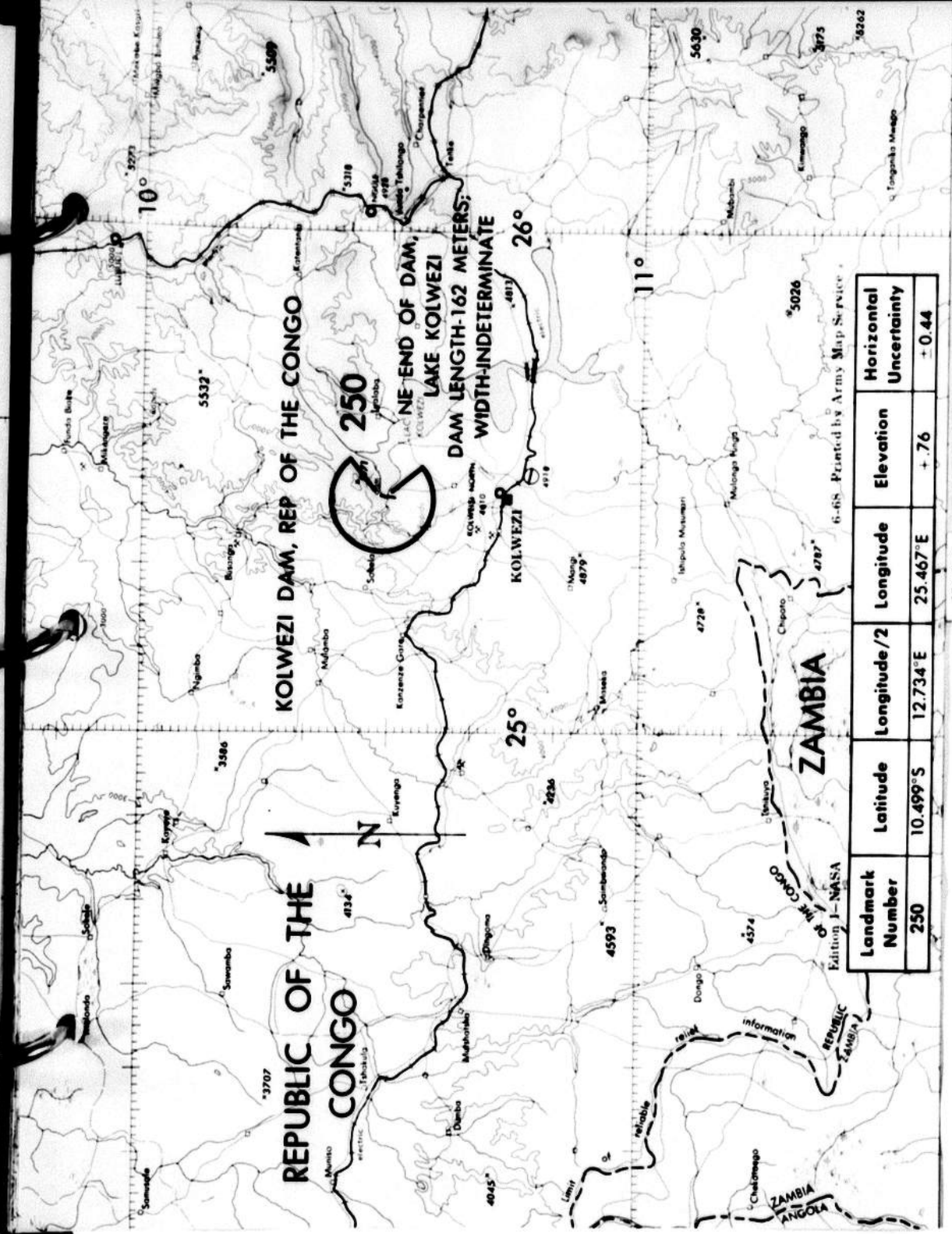
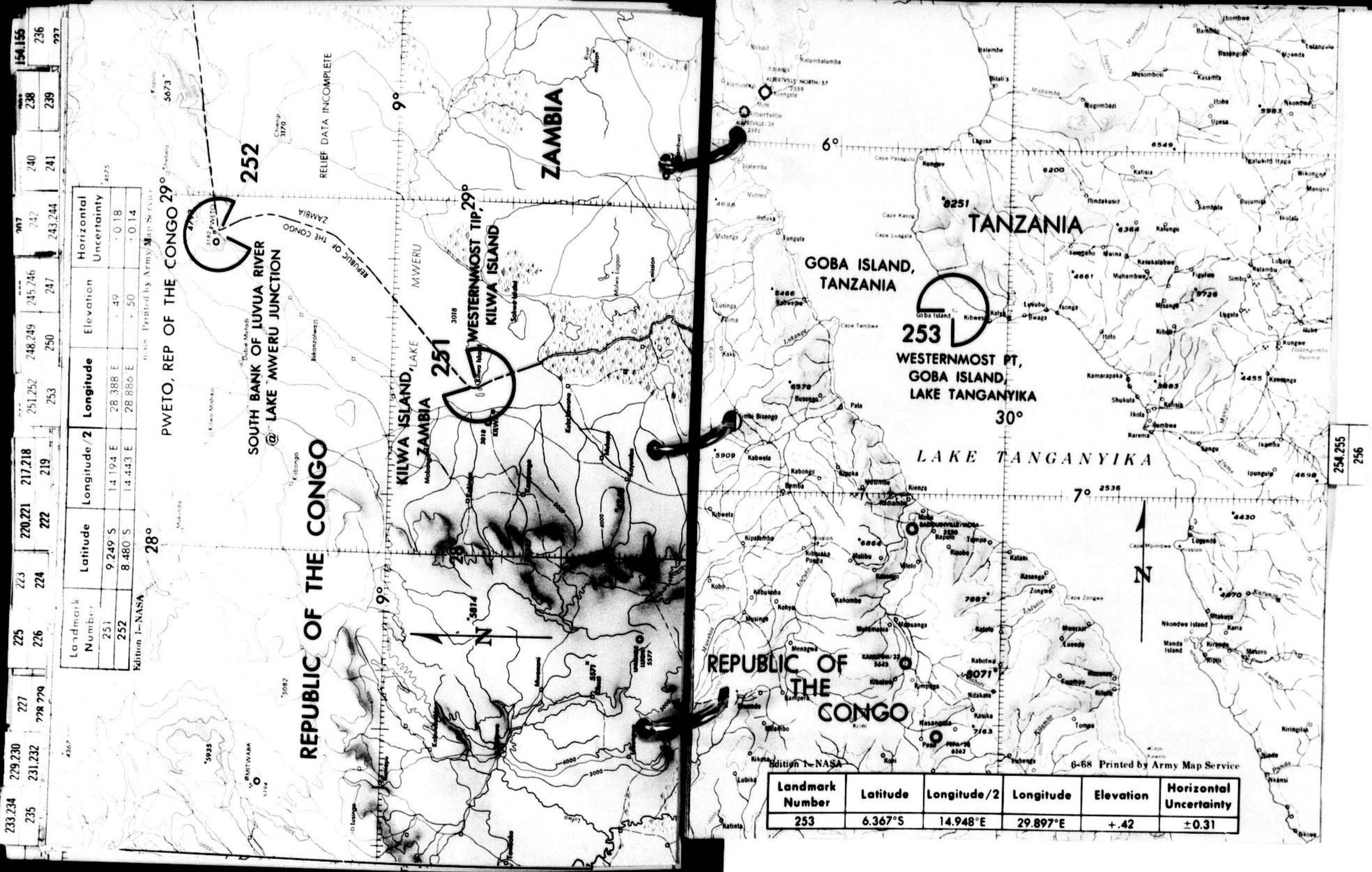


Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
248	5.723°S	19.742°E	39.483°E	0	±0.17
249	4.864°S	19.840°E	39.679°E	0	±0.15

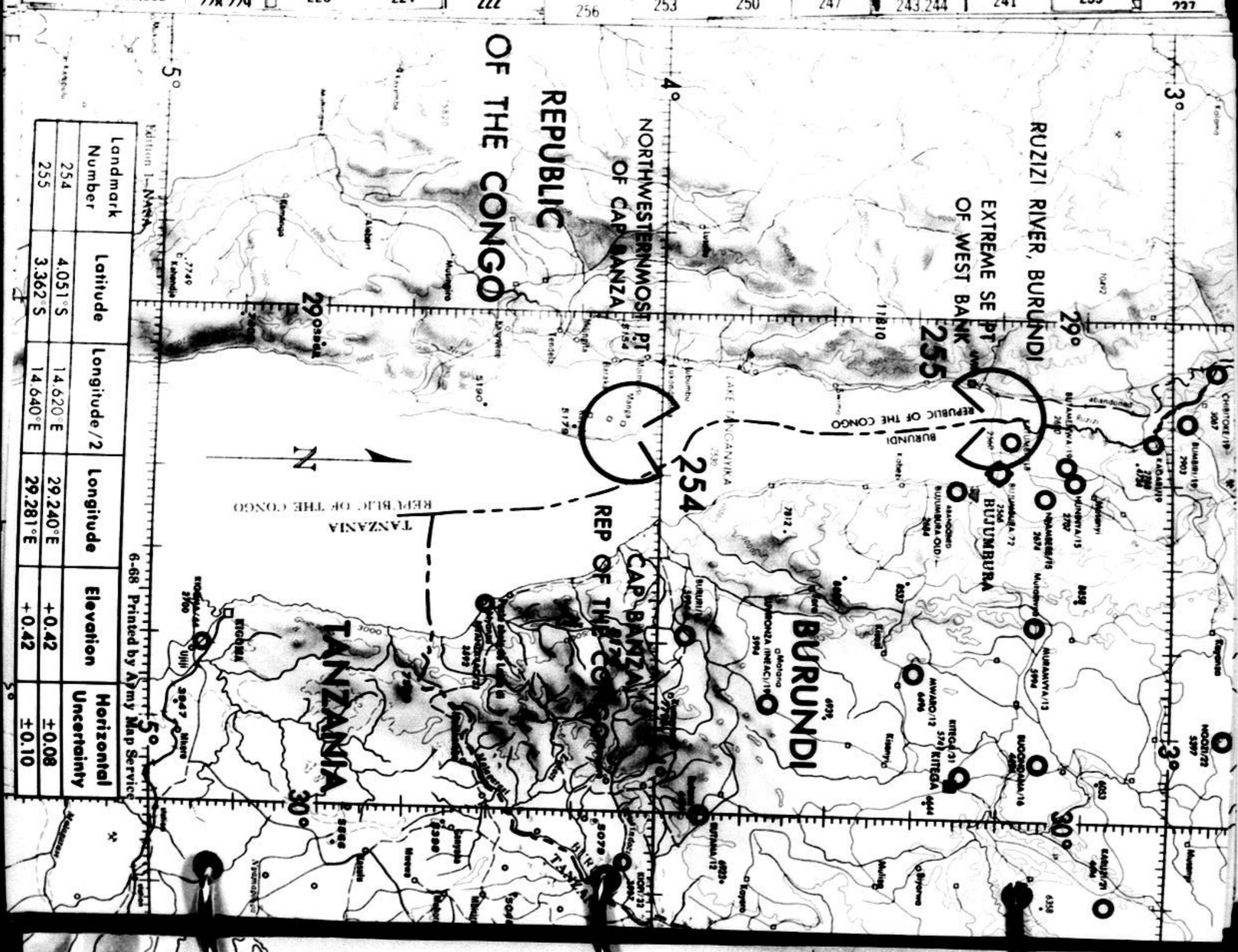


Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
250	10.499°S	12.734°E	25.467°E	+.76	±0.44

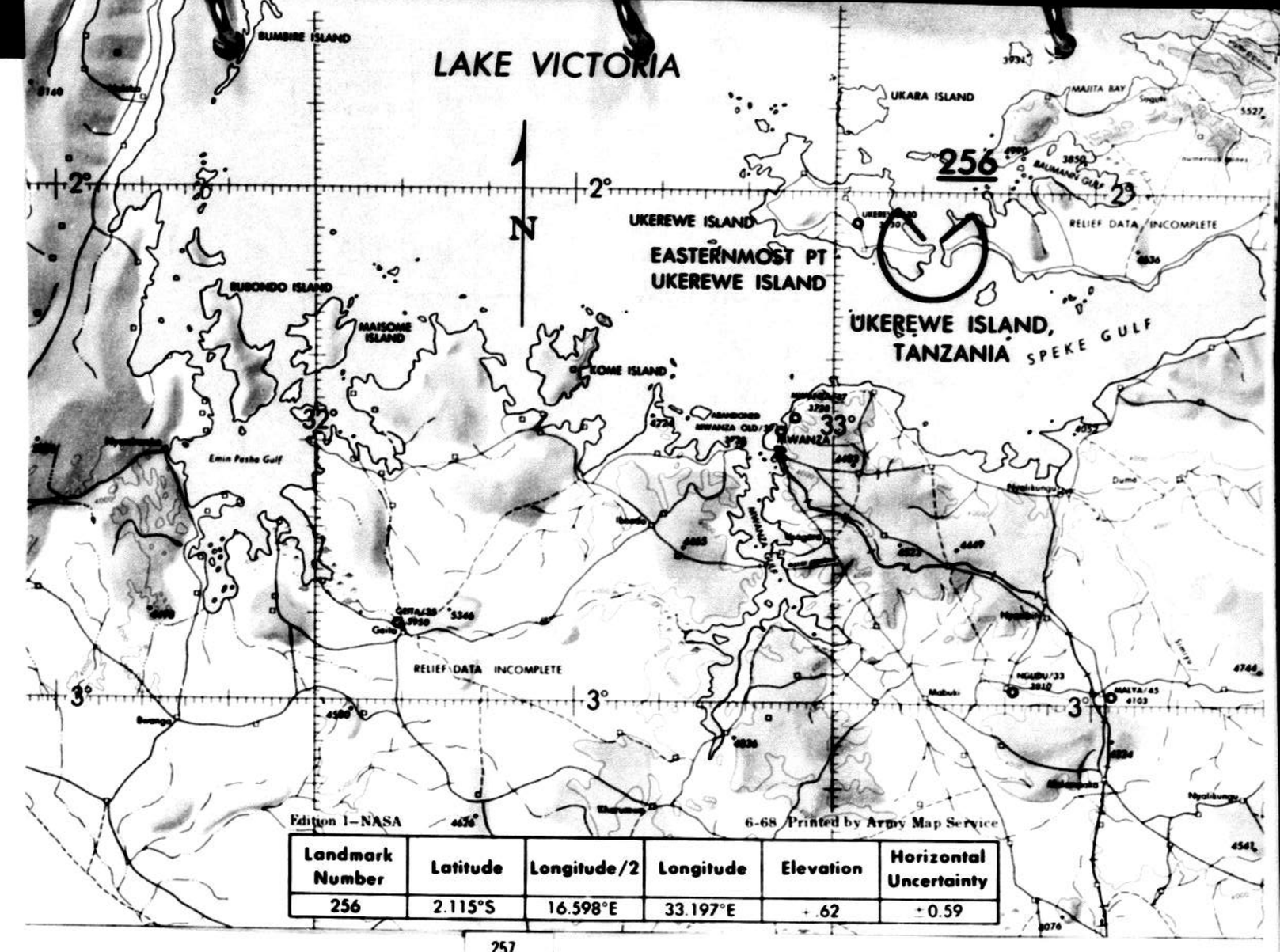


Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
251	9.249°S	14.194°E	28.388°E	+.49	±0.18
252	8.480°S	14.443°E	28.886°E	+.50	±0.14

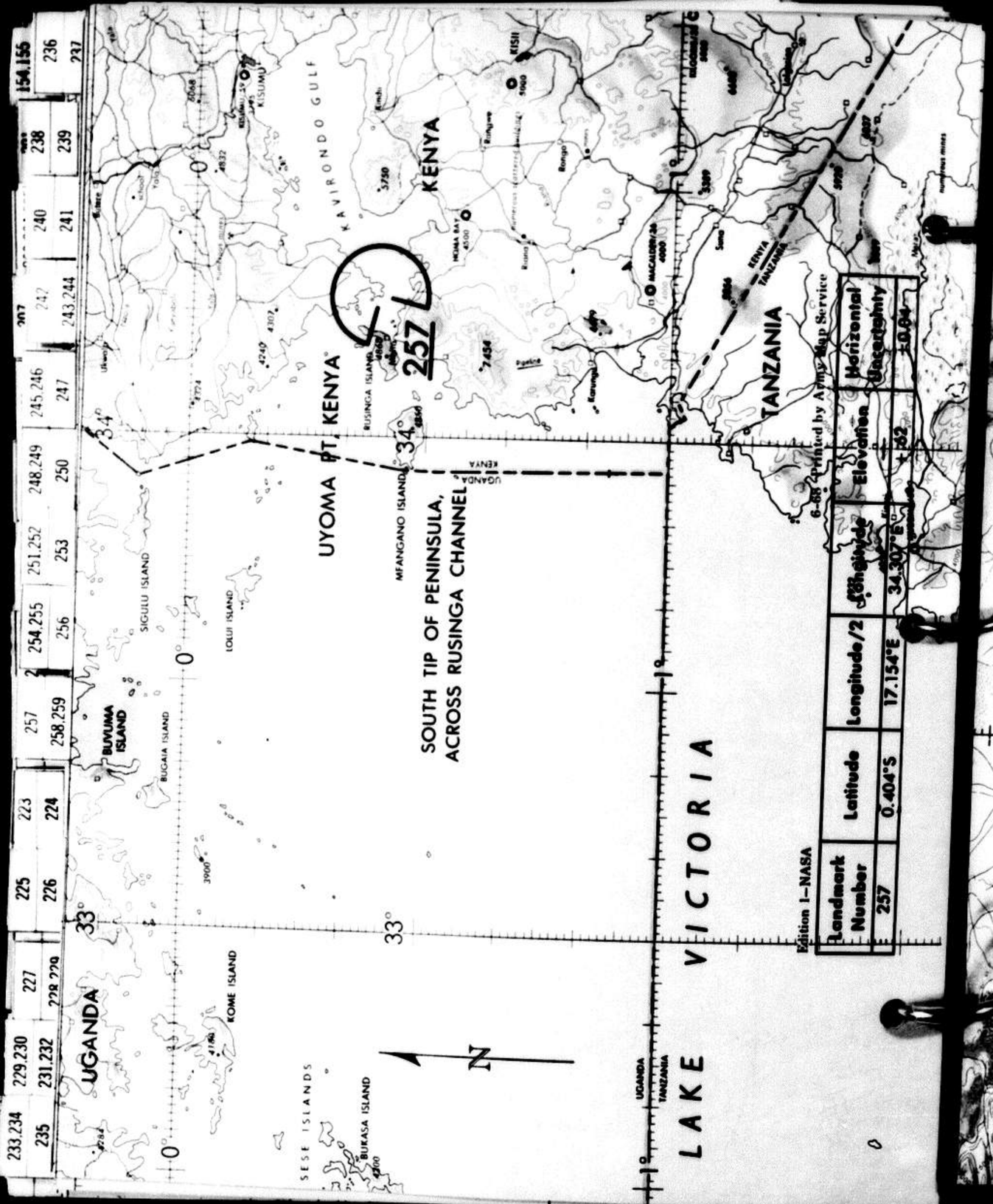
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
253	6.367°S	14.948°E	29.897°E	+.42	±0.31

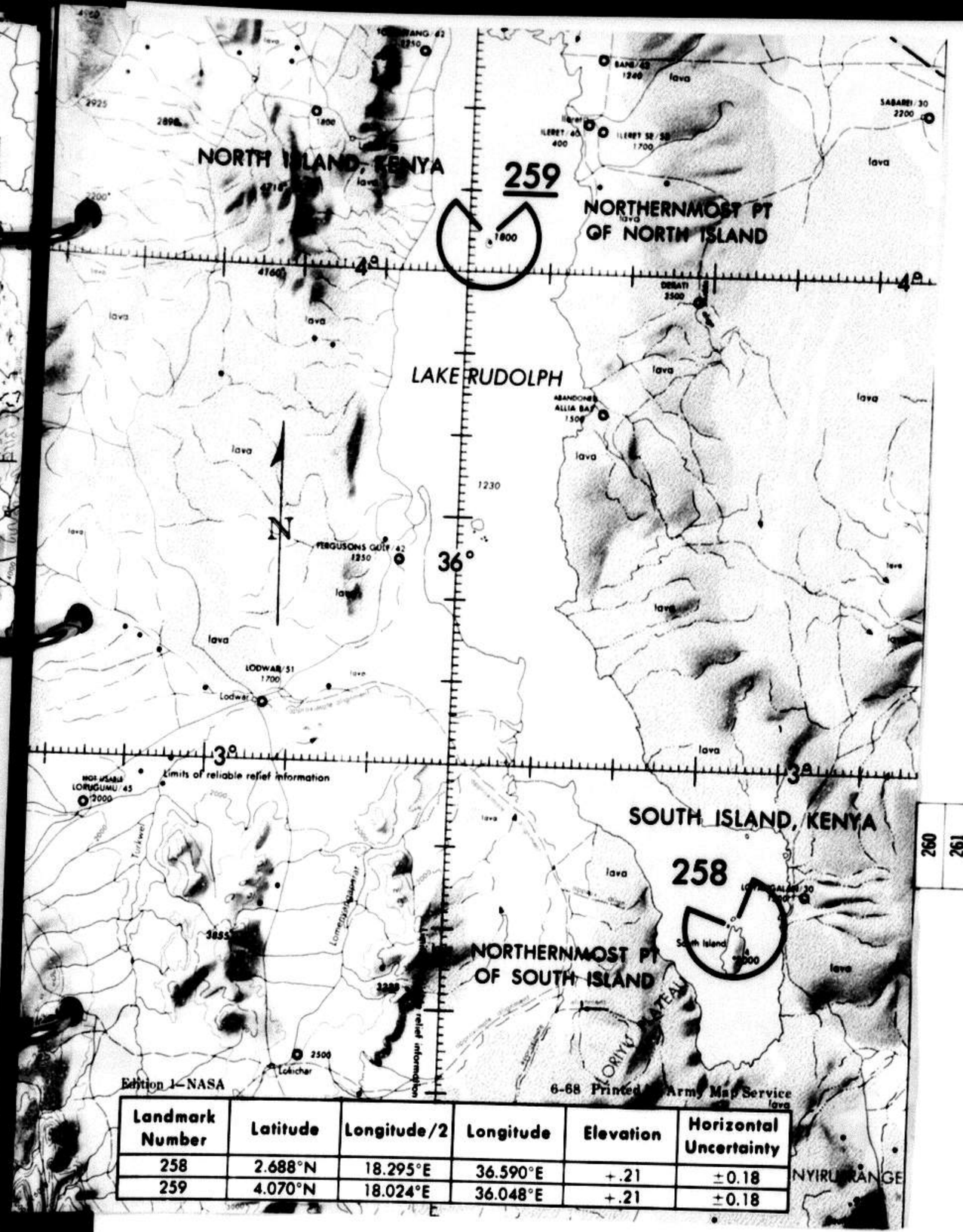


Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
254	4.051°S	14.620°E	29.240°E	+0.42	±0.08
255	3.362°S	14.640°E	29.281°E	+0.42	±0.10

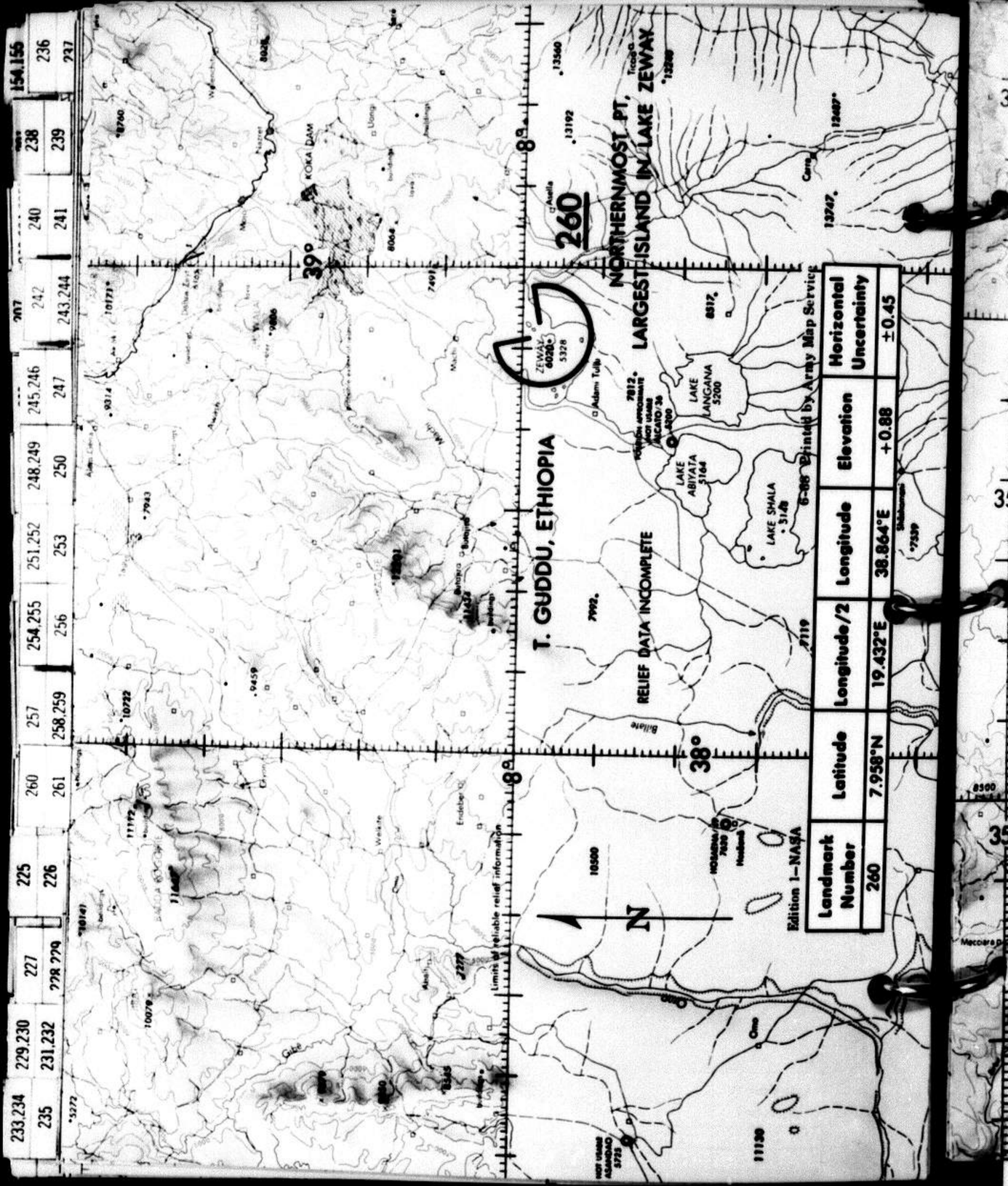


Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
256	2.115°S	16.598°E	33.197°E	+.62	±0.59

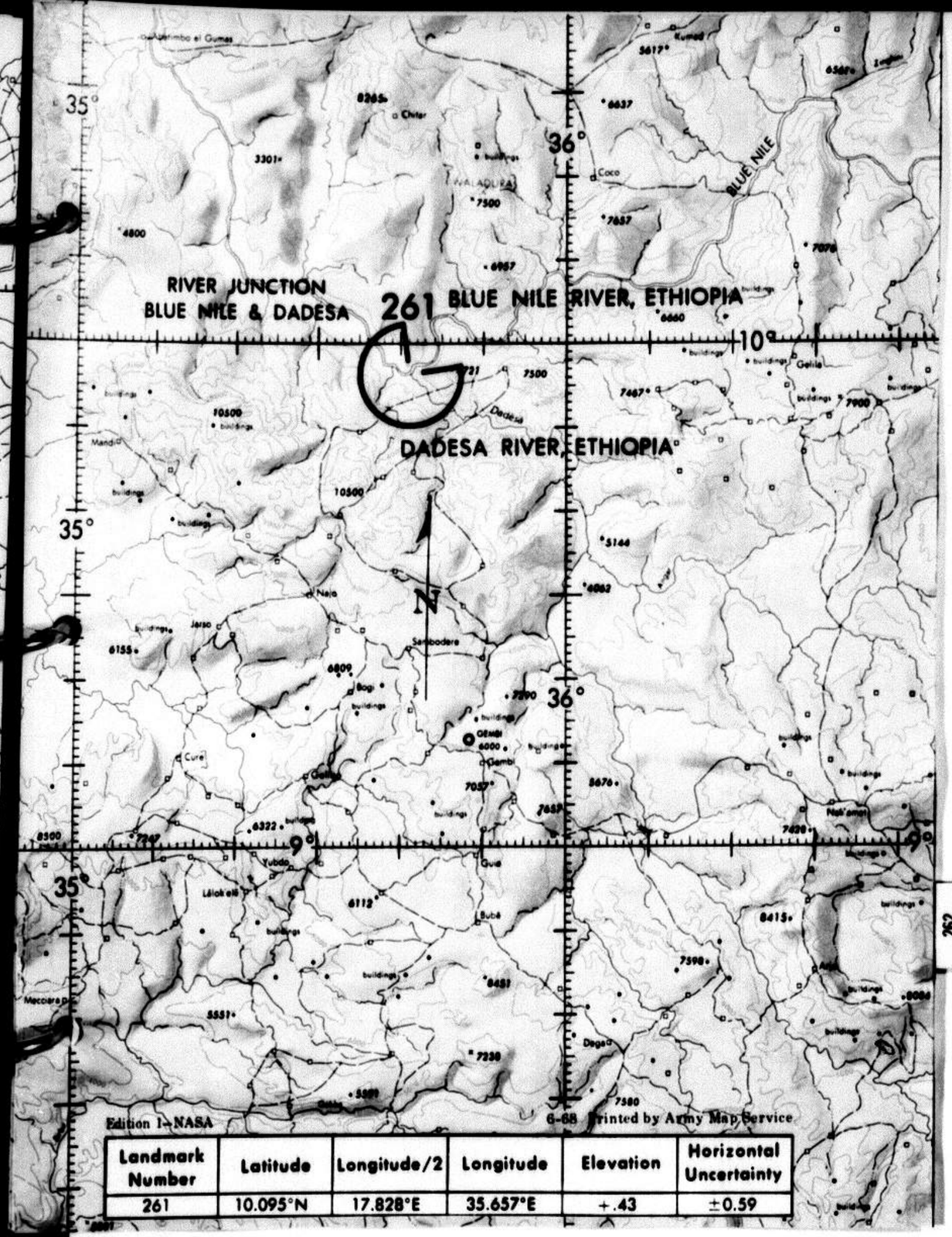




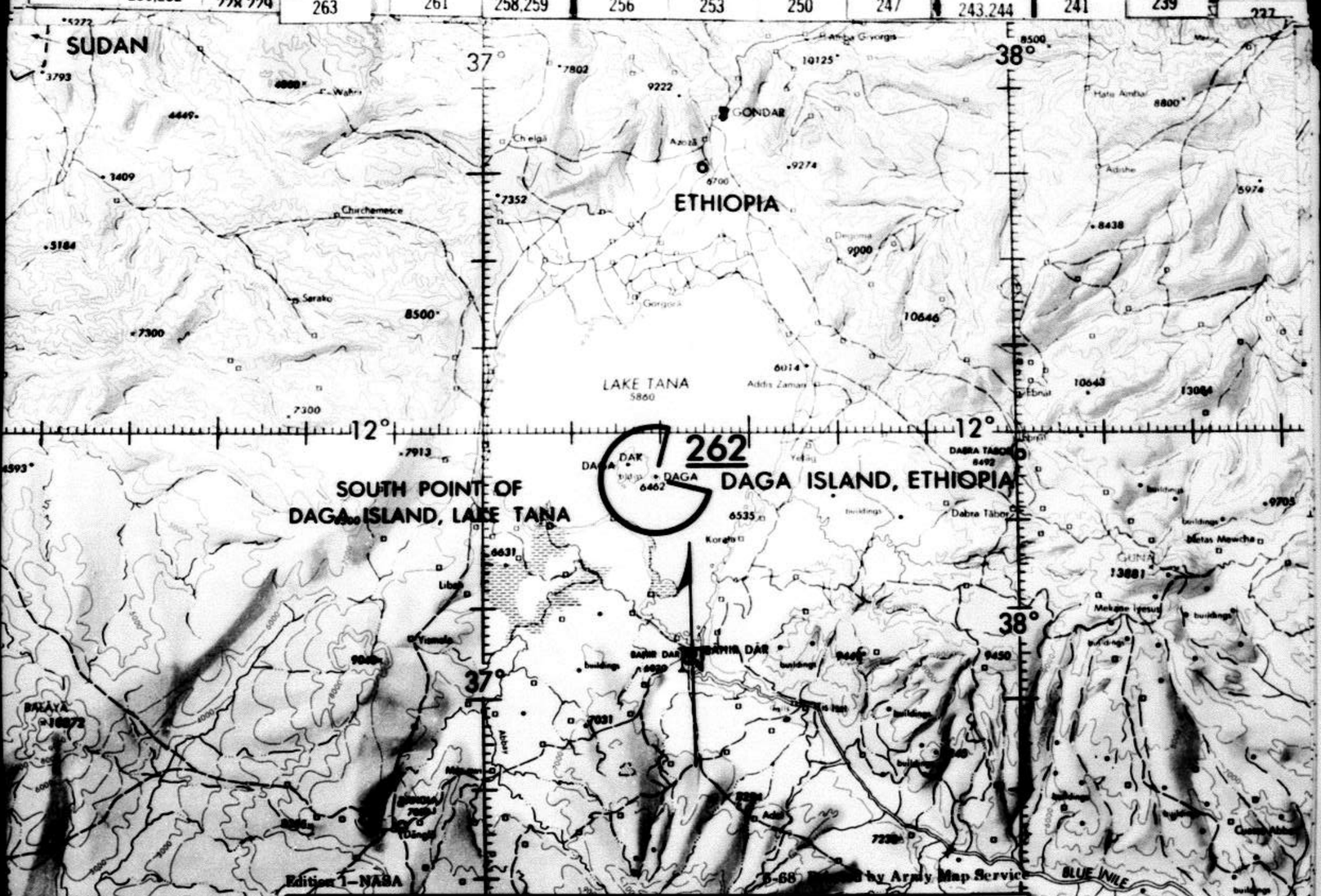
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
258	2.688°N	18.295°E	36.590°E	+.21	±0.18
259	4.070°N	18.024°E	36.048°E	+.21	±0.18



Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
260	7.958°N	19.432°E	38.864°E	+0.88	±0.45



Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
261	10.095°N	17.828°E	35.657°E	+.43	±0.59



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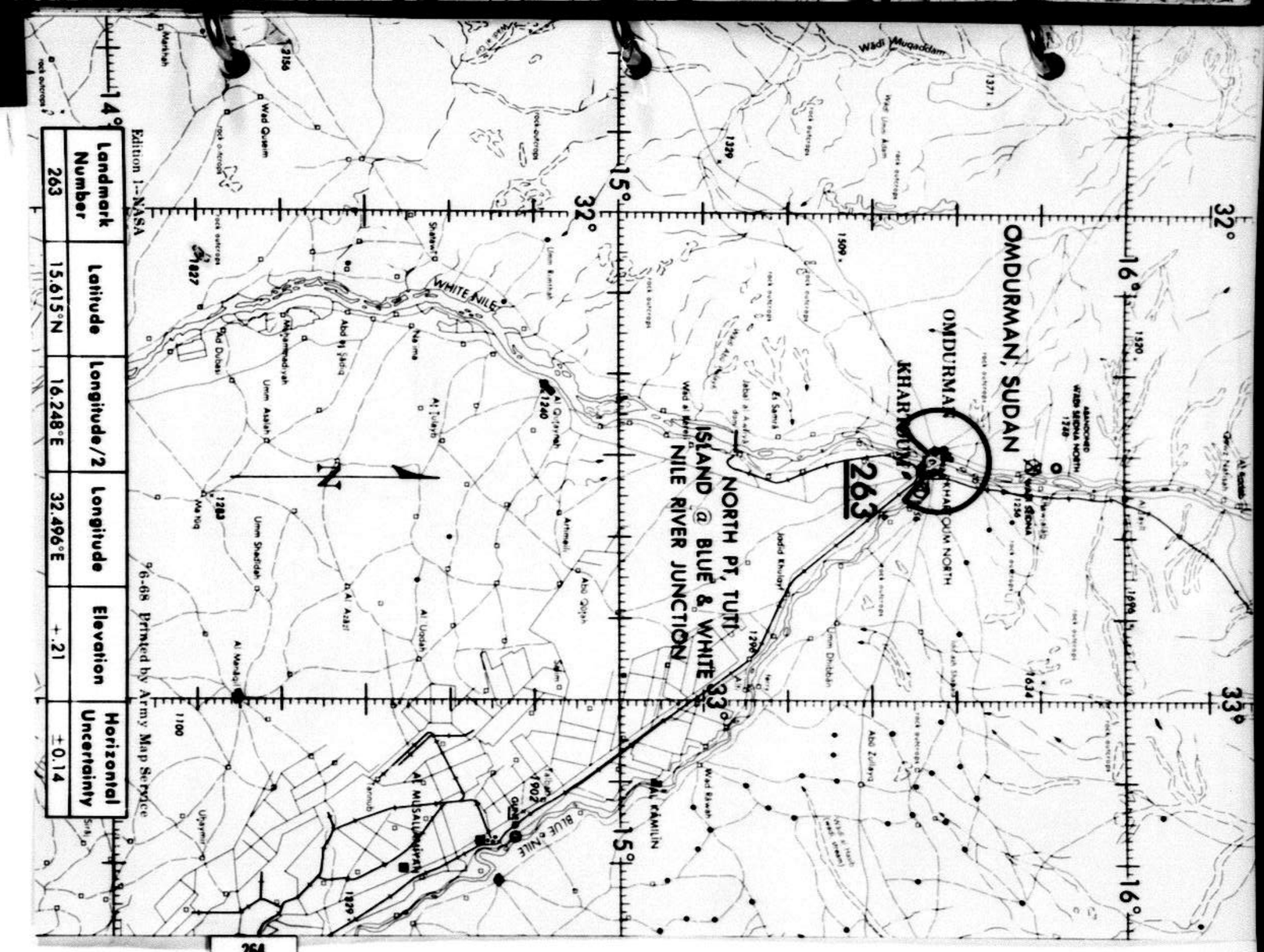
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
262	11.869°N	18.672°E	37.344°E	+.99	±0.35



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Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
263	15.615°N	16.248°E	32.496°E	+.21	±0.14

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
264	10.538°N	25.594°E	51.188°E	0	±0.20

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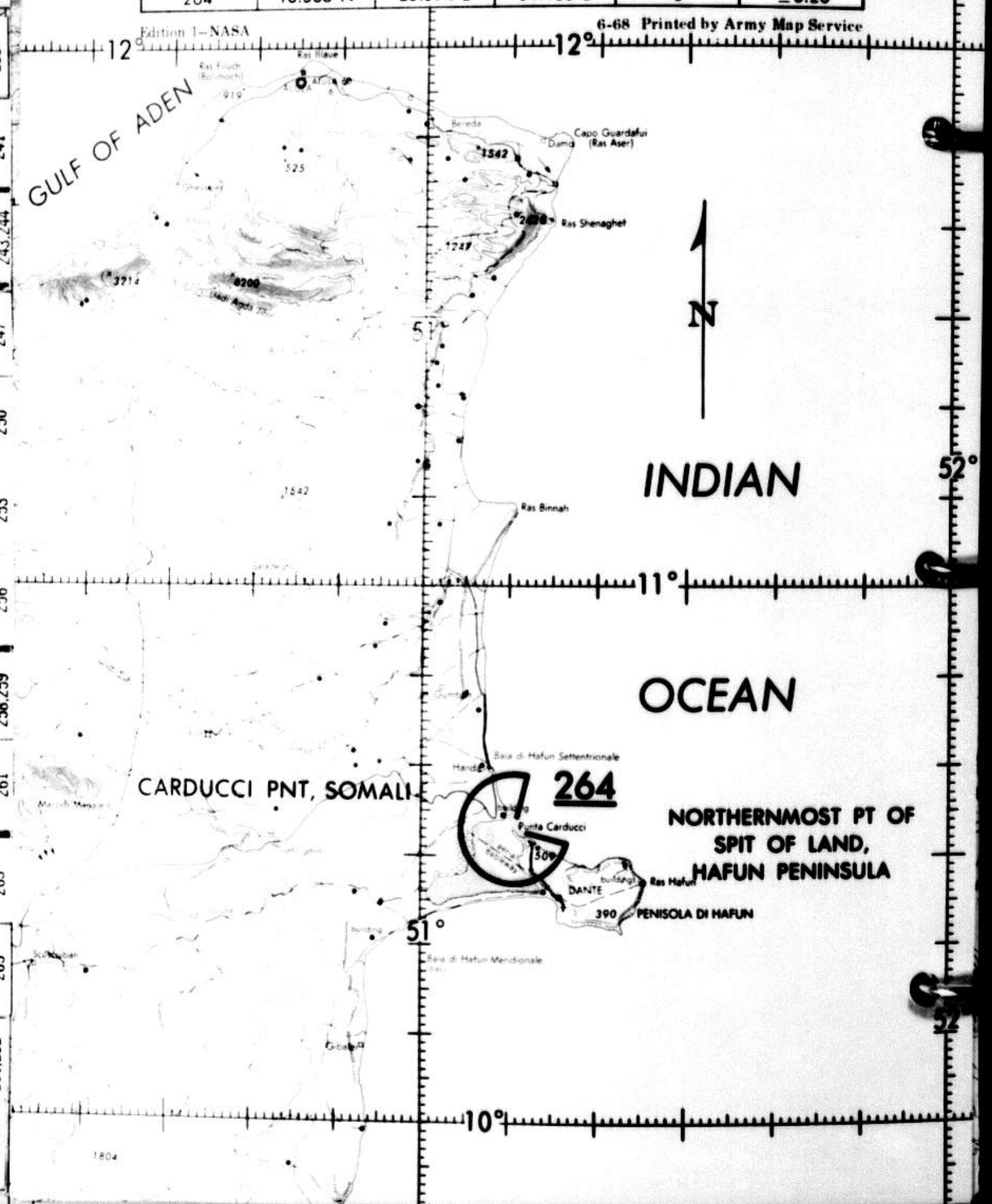

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
265	31.329°N	15.035°E	30.070°E	+0.01	±0.03

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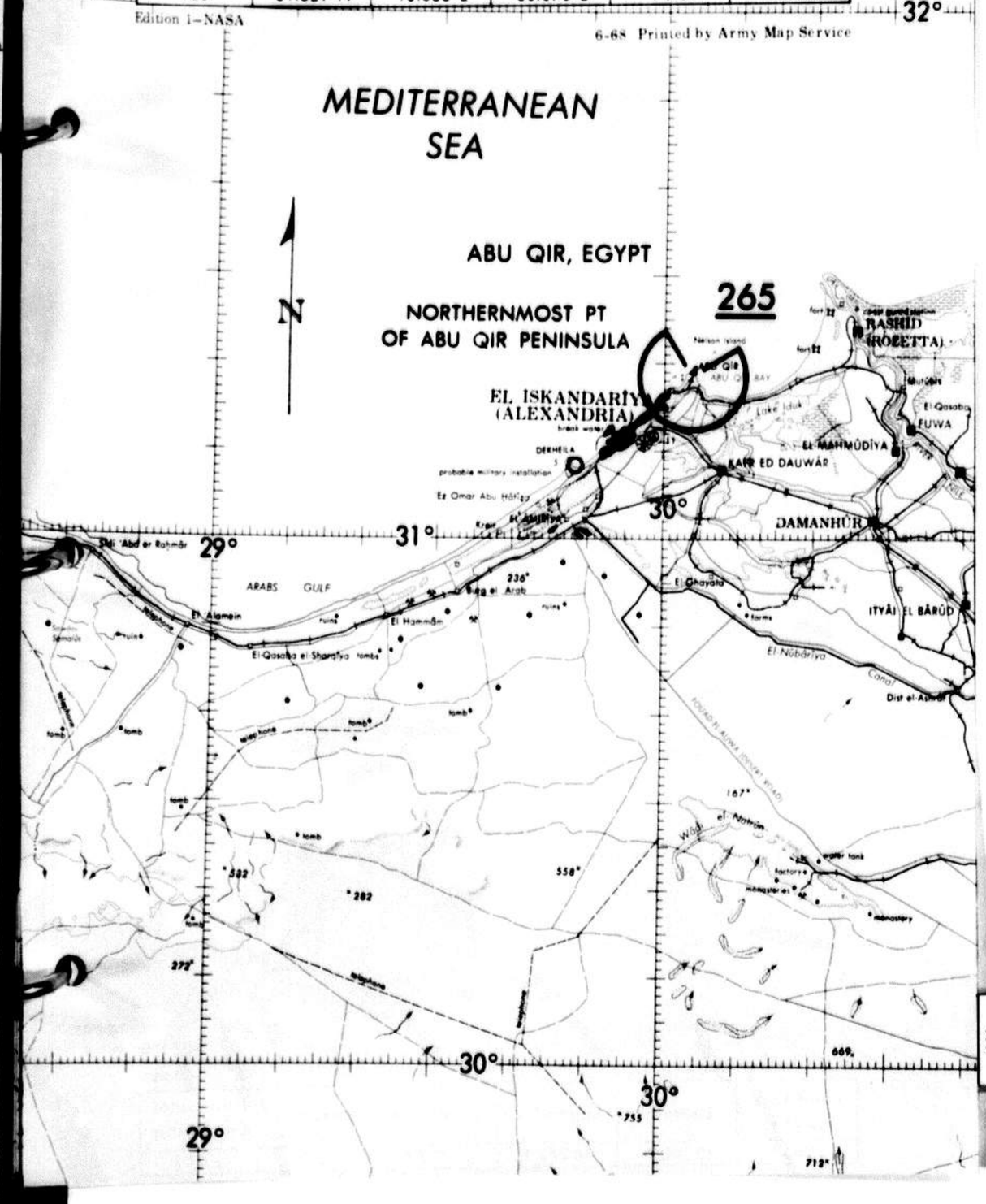
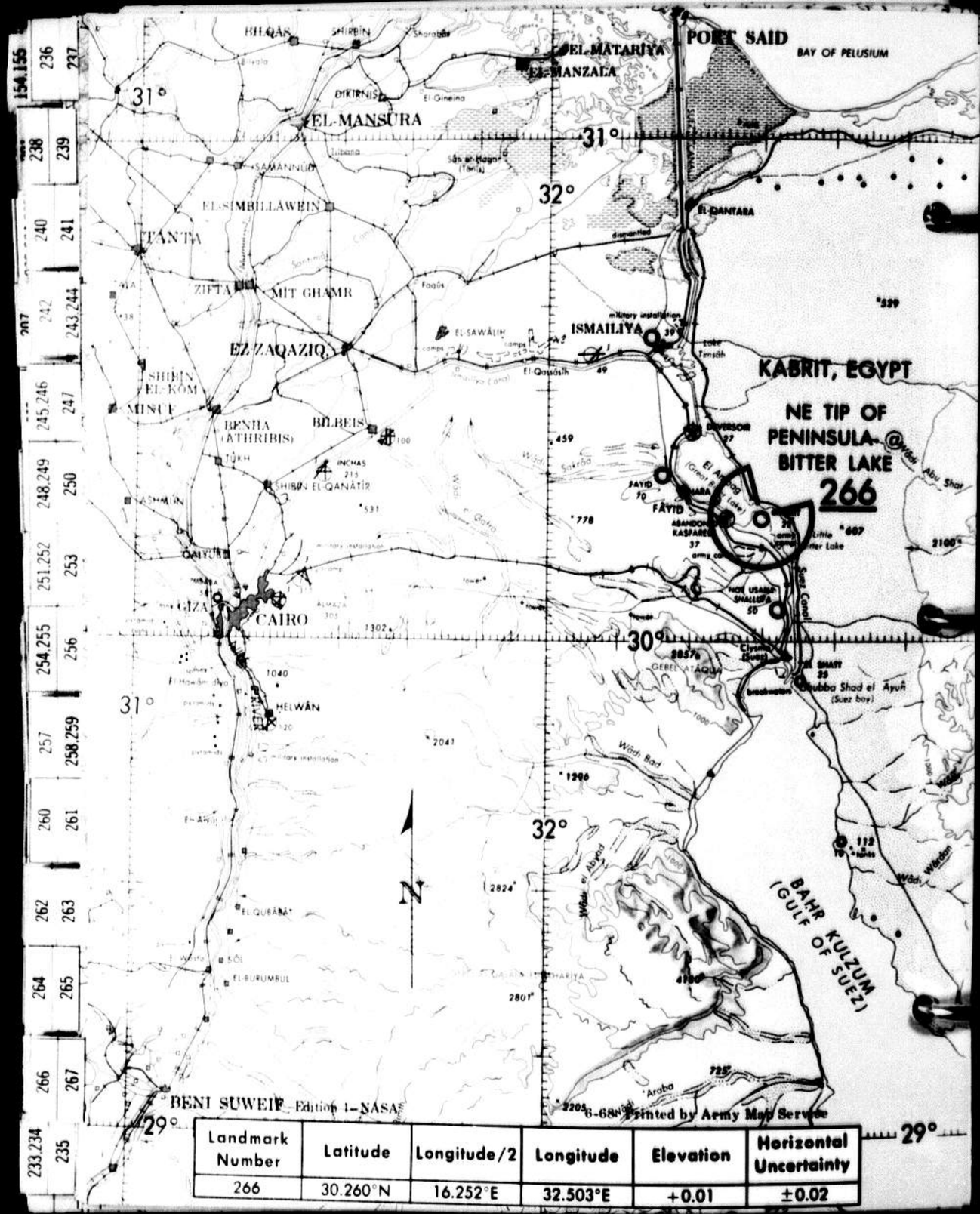
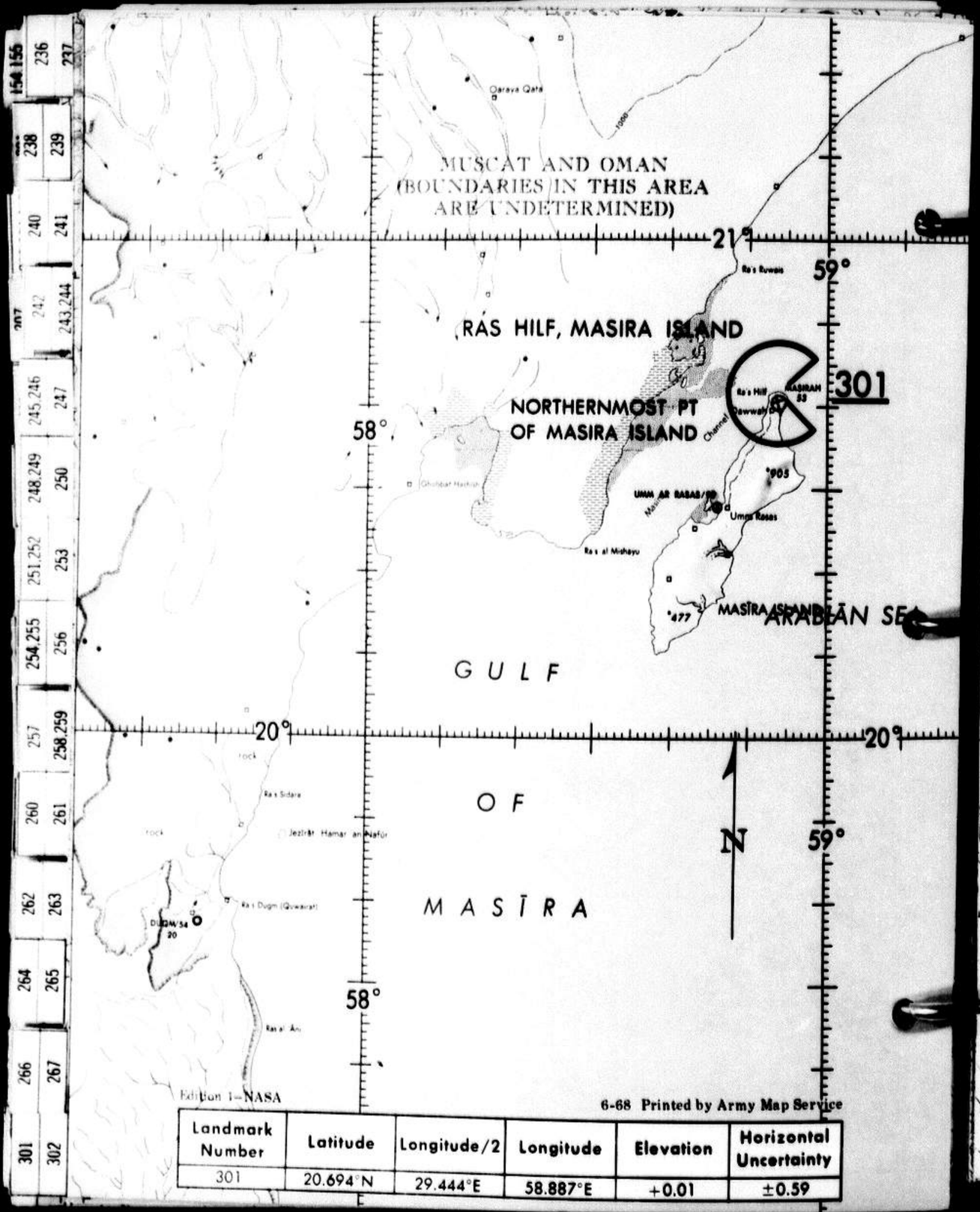


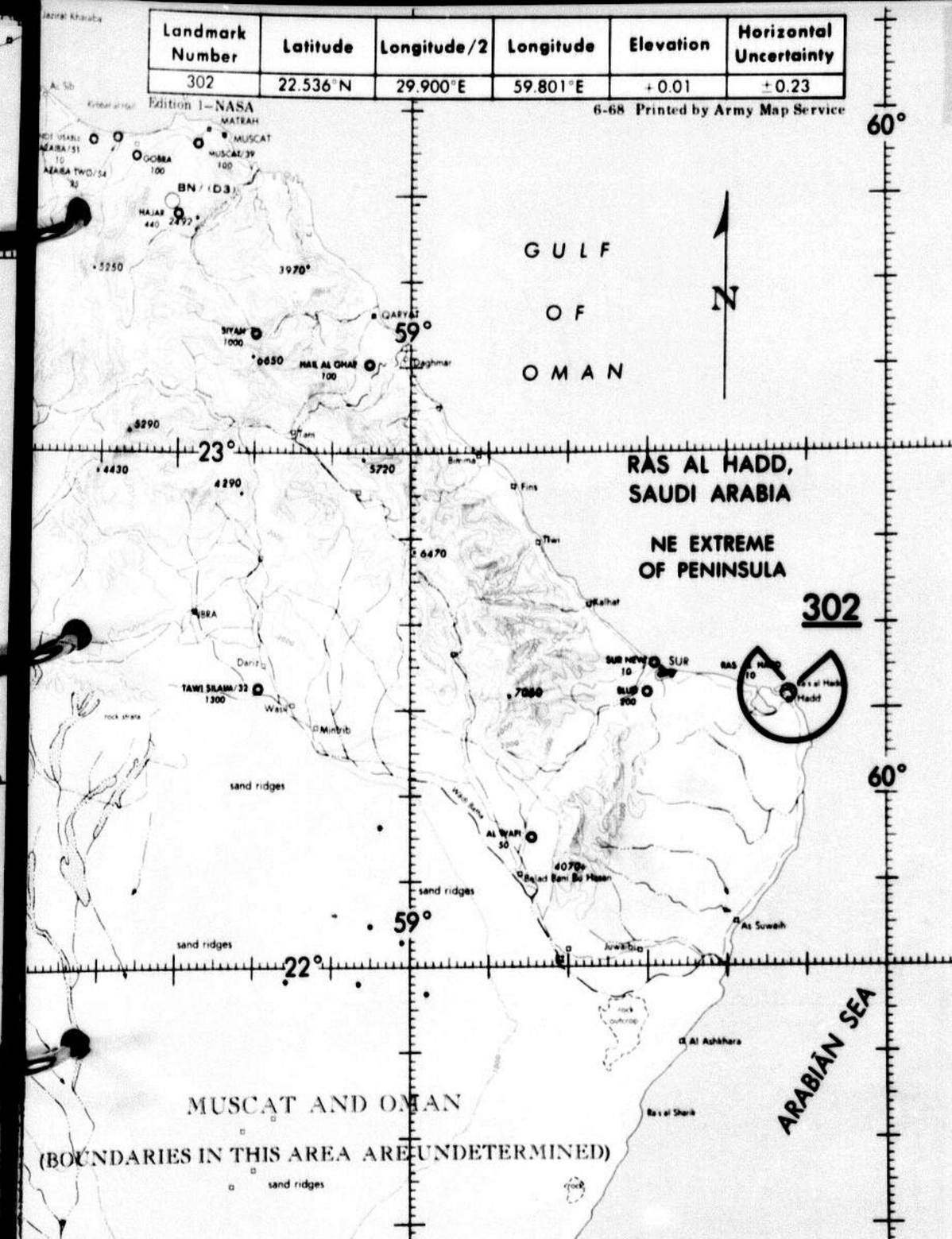


Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
266	30.260°N	16.252°E	32.503°E	+0.01	±0.02

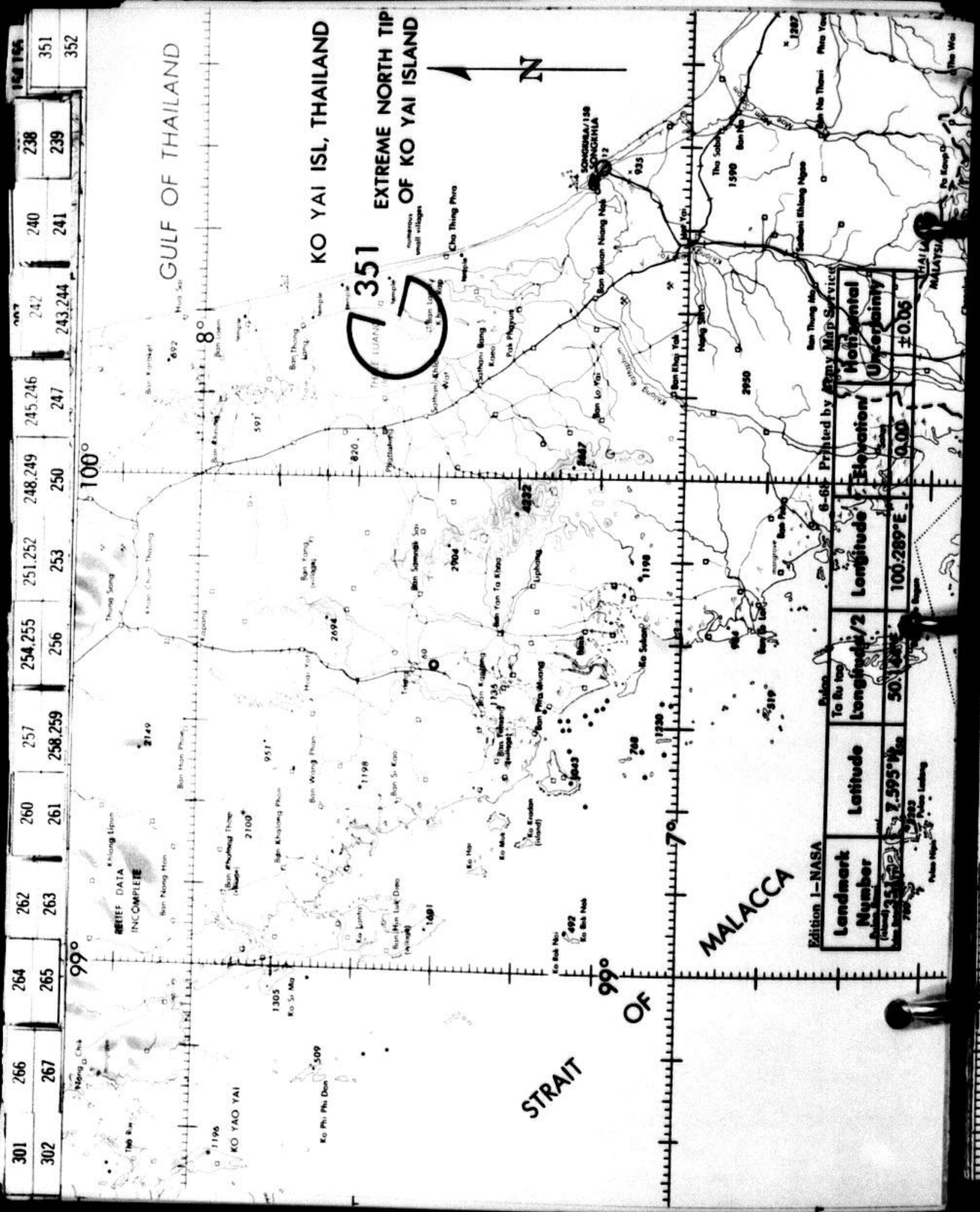
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
267	31.350°N	17.751°E	35.502°E	−0.20	±0.04

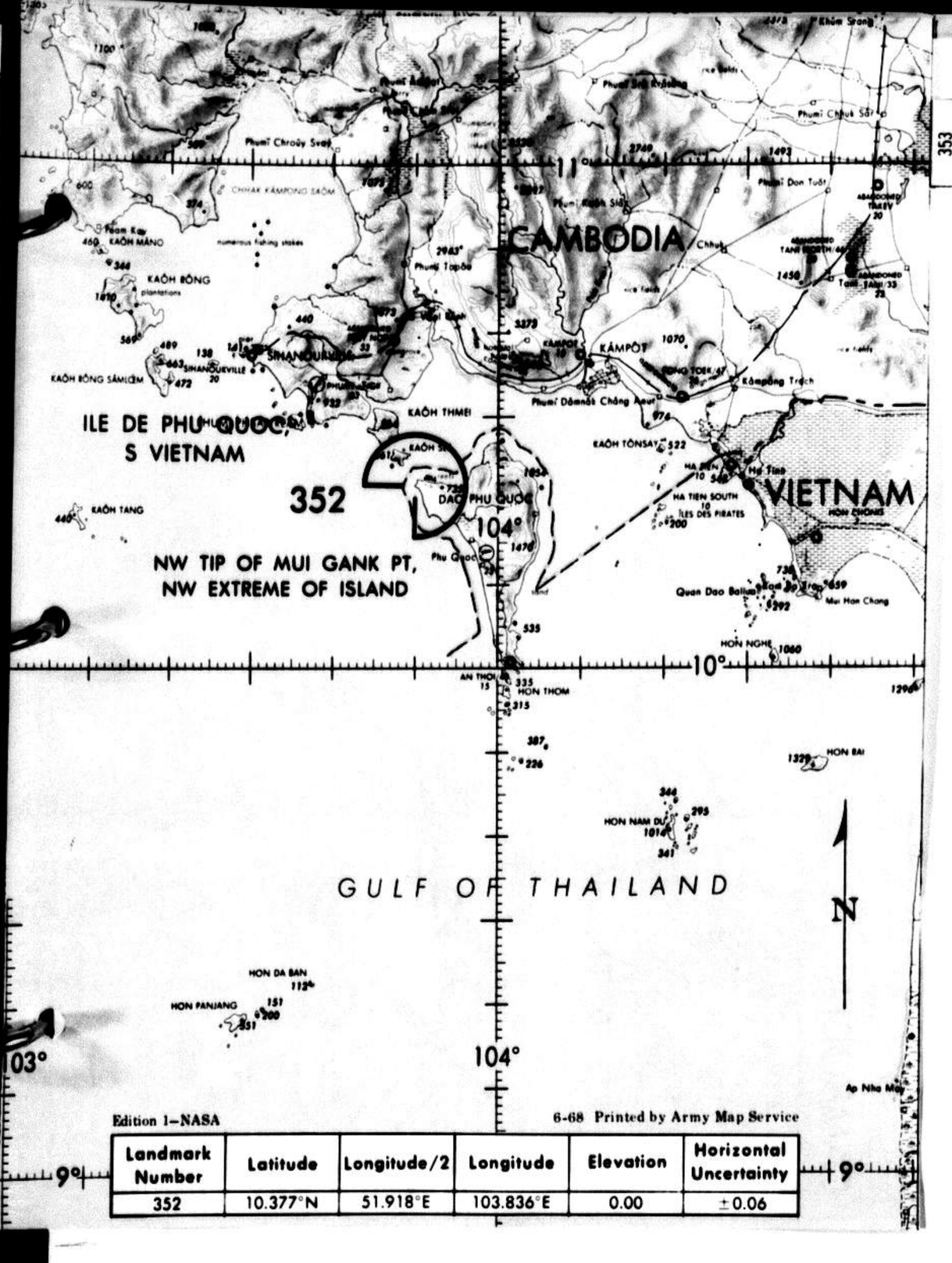


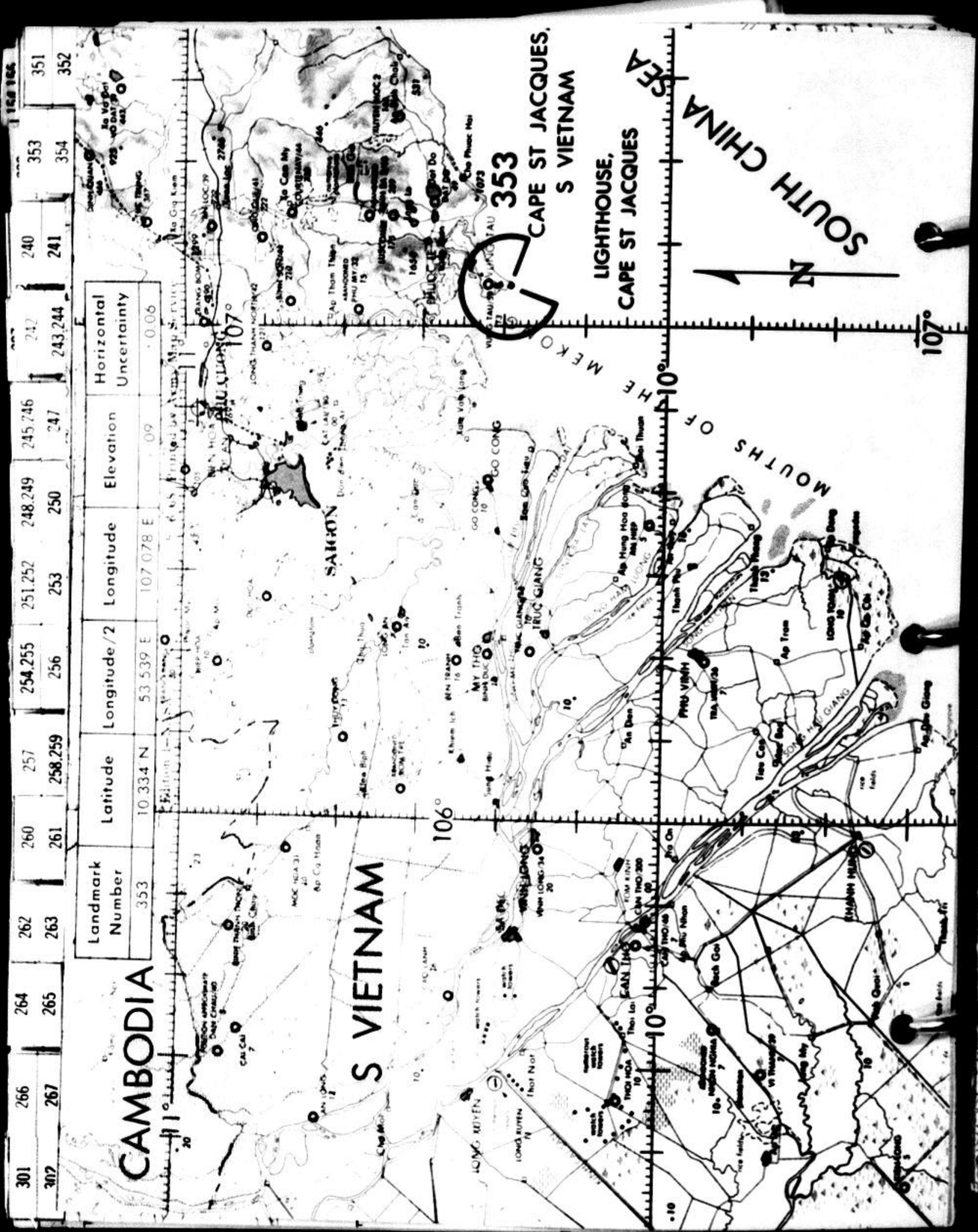
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
301	20.694°N	29.444°E	58.887°E	+0.01	±0.59



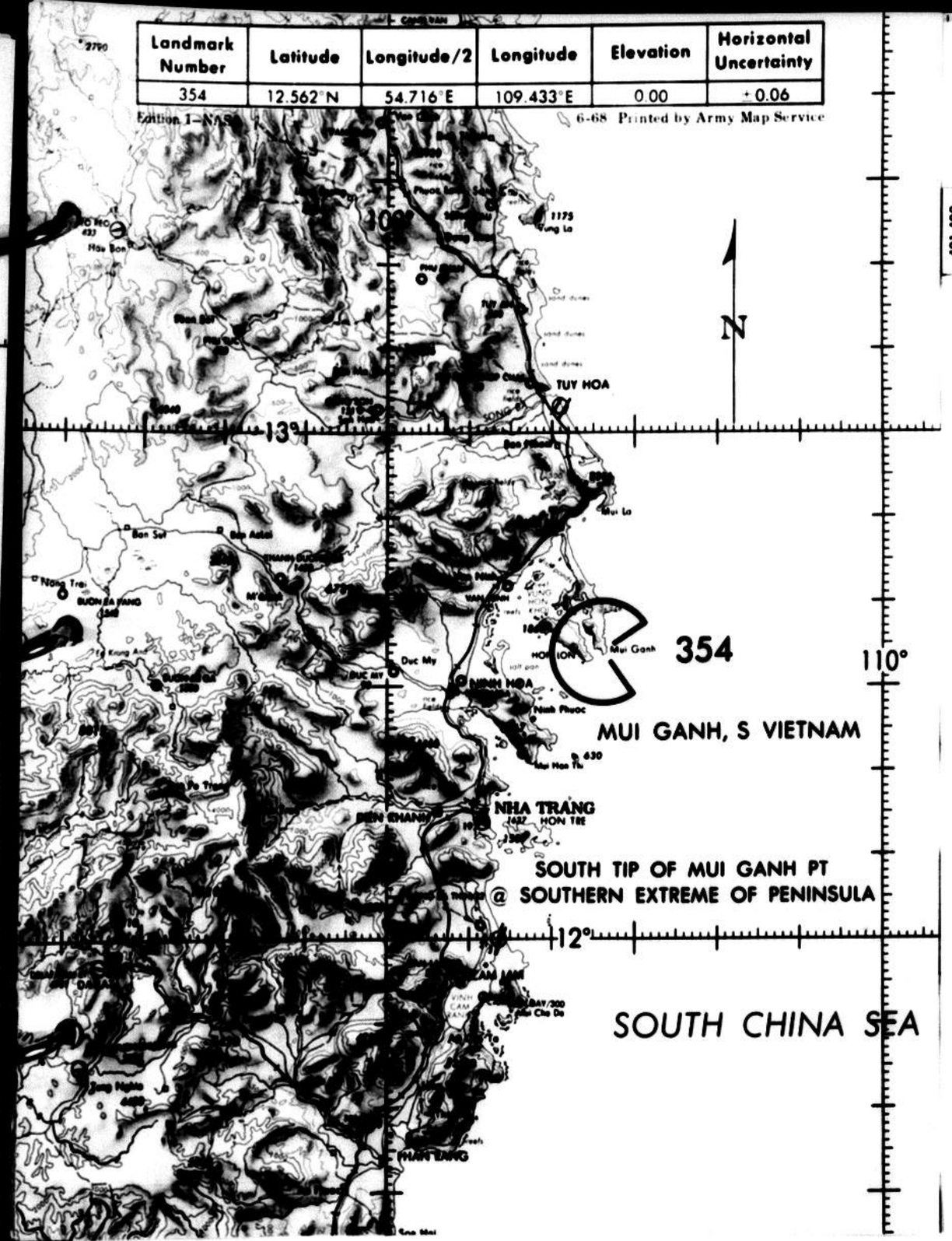
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
302	22.536°N	29.900°E	59.801°E	+0.01	±0.23

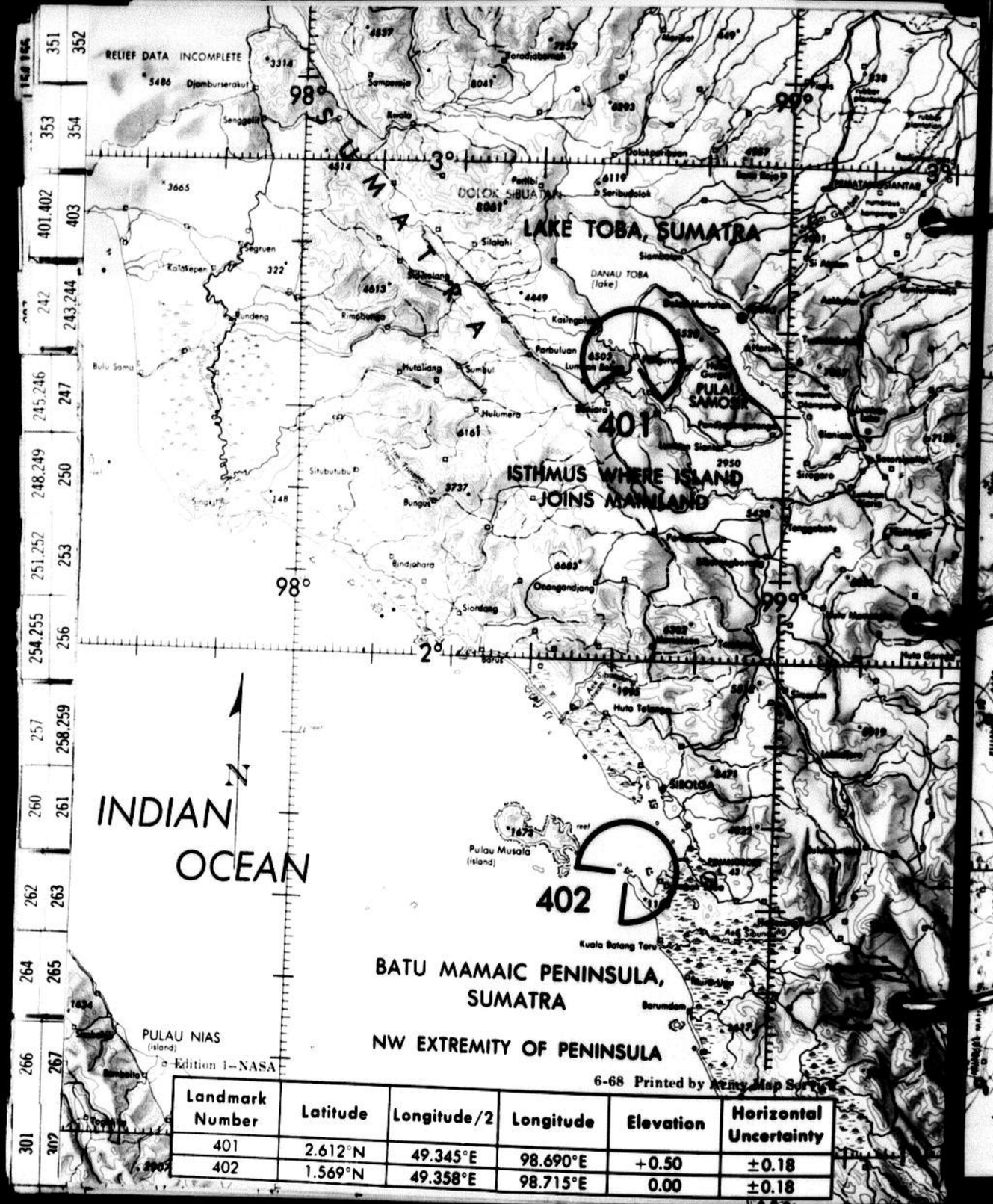

KO YAI ISL, THAILAND
EXTREME NORTH TIP OF KO YAI ISLAND
351
GULF OF THAILAND
STRAIT OF MALACCA
REEF DATA INCOMPLETE
KO YAO YAI
Edition 1—NASA
6-68 Printed by Army Map Service
Landmark Number
Latitude
Longitude/2
Longitude
Elevation
Horizontal Uncertainty
351
7.595°N
50.000°E
100.269°E
0.00
±0.06


ILE DE PHU QUOC, S VIETNAM
352
NW TIP OF MUI GANK PT, NW EXTREME OF ISLAND
CAMBODIA
VIETNAM
GULF OF THAILAND
KAÔH RÔNG SÂMLŒM
KAÔH THMEI
KAÔH TÔNSAY
KAÔH TANG
KAÔH MÂNO
KAÔH RÔNG
KÂMPÔT
DAO PHU QUOC
HON DA BAN
HON PANJANG
HON NAM DU
HON BAI
HON THOM
HON NGHE
Edition 1—NASA
6-68 Printed by Army Map Service
Landmark Number
Latitude
Longitude/2
Longitude
Elevation
Horizontal Uncertainty
352
10.377°N
51.918°E
103.836°E
0.00
±0.06

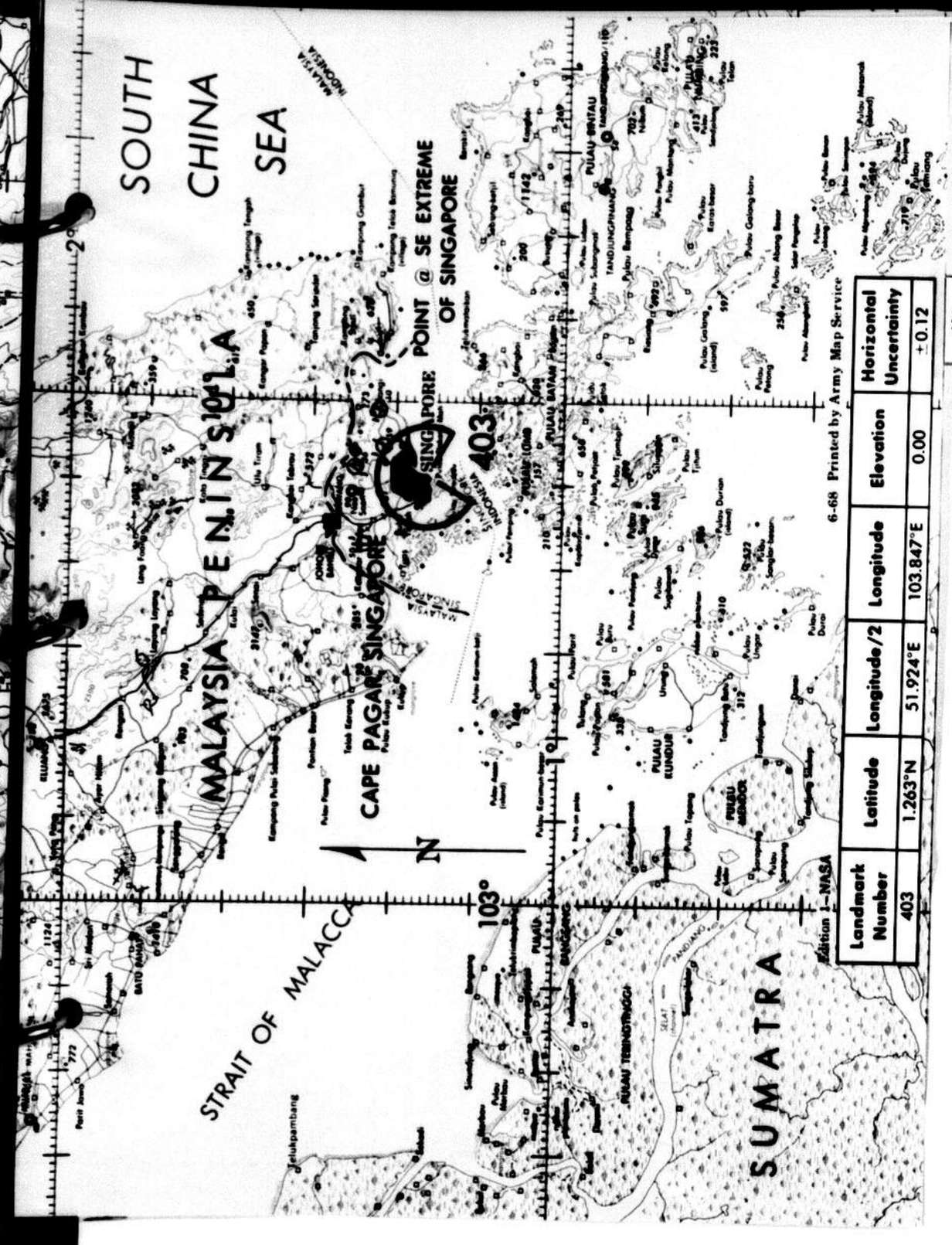


Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
354	12.562°N	54.716°E	109.433°E	0.00	±0.06





Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
401	2.612°N	49.345°E	98.690°E	+0.50	±0.18
402	1.569°N	49.358°E	98.715°E	0.00	±0.18



Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
403	1.263°N	51.924°E	103.847°E	0.00	±0.12

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Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
404	0.282°S	52.498°E	104.997°E	0.00	±0.20

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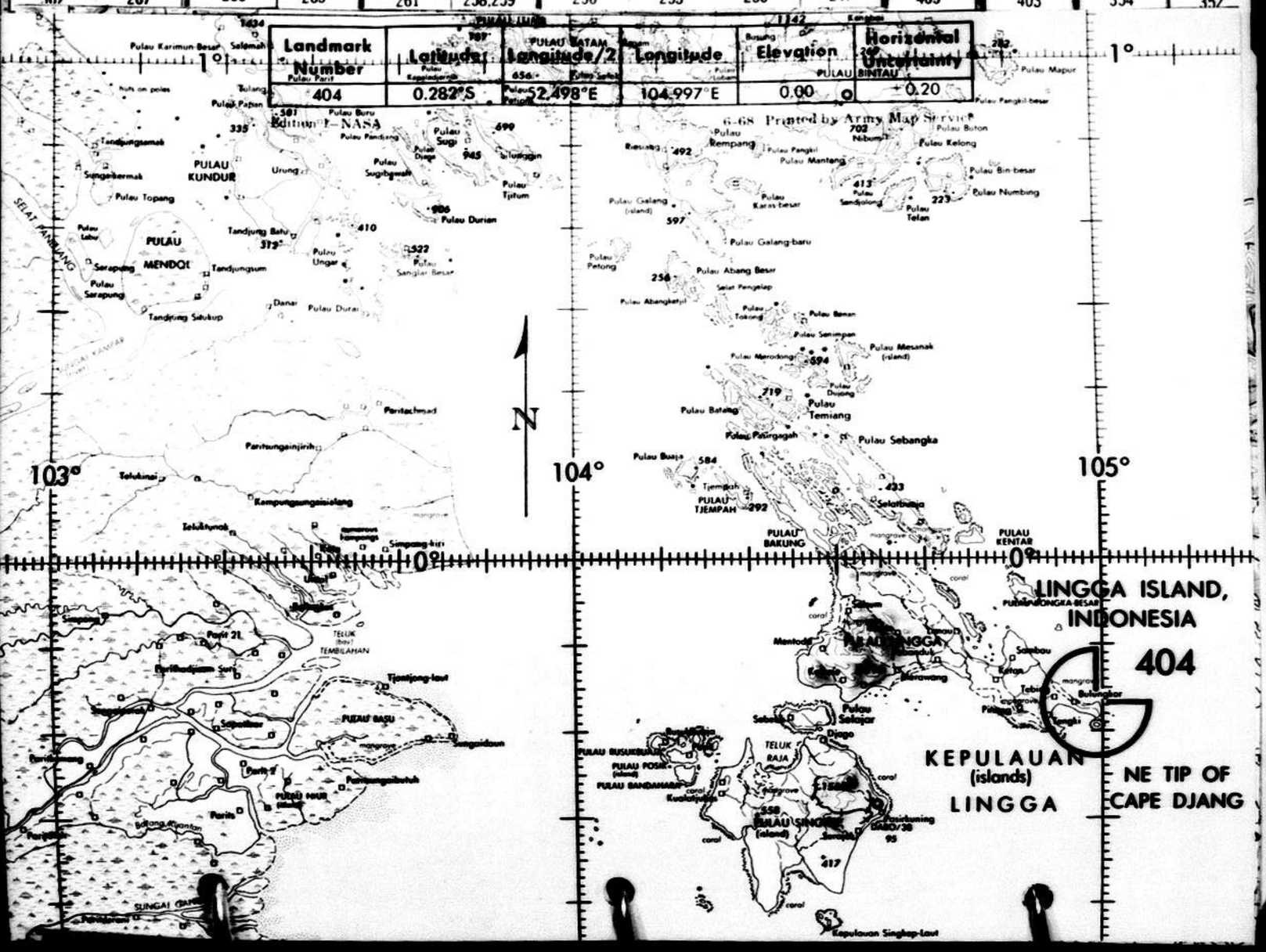

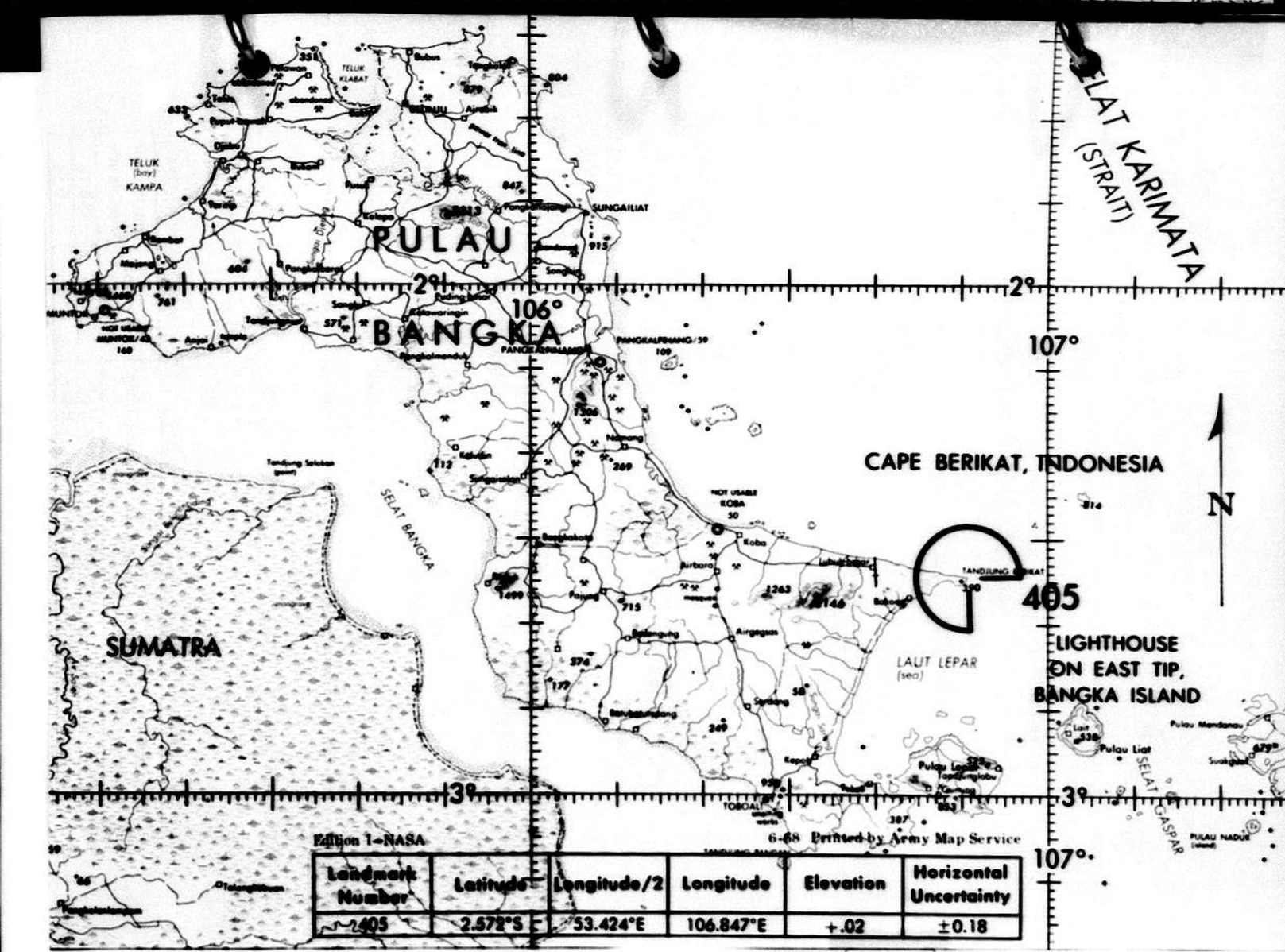

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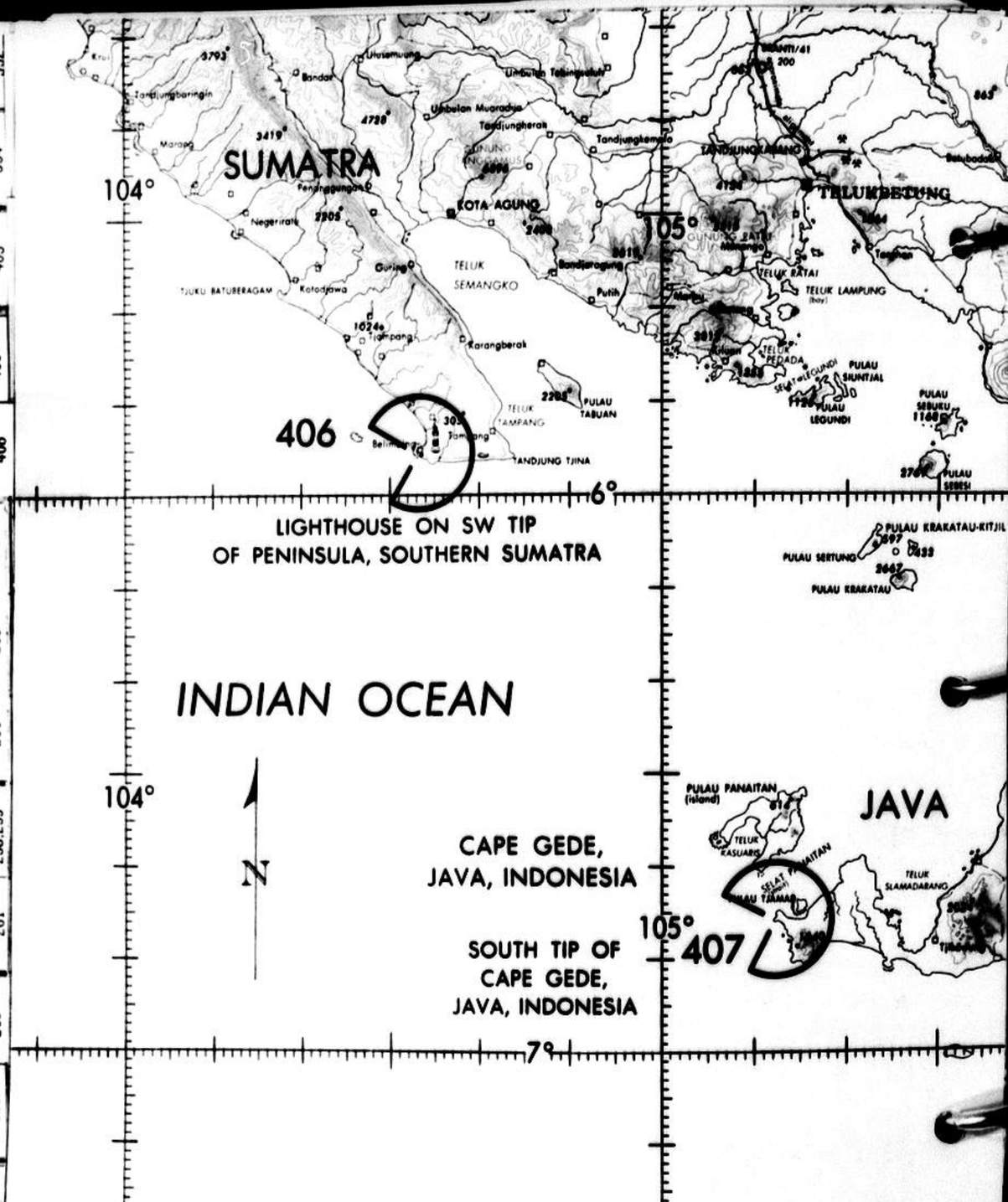
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
405	2.572°S	53.424°E	106.847°E	+.02	±0.18



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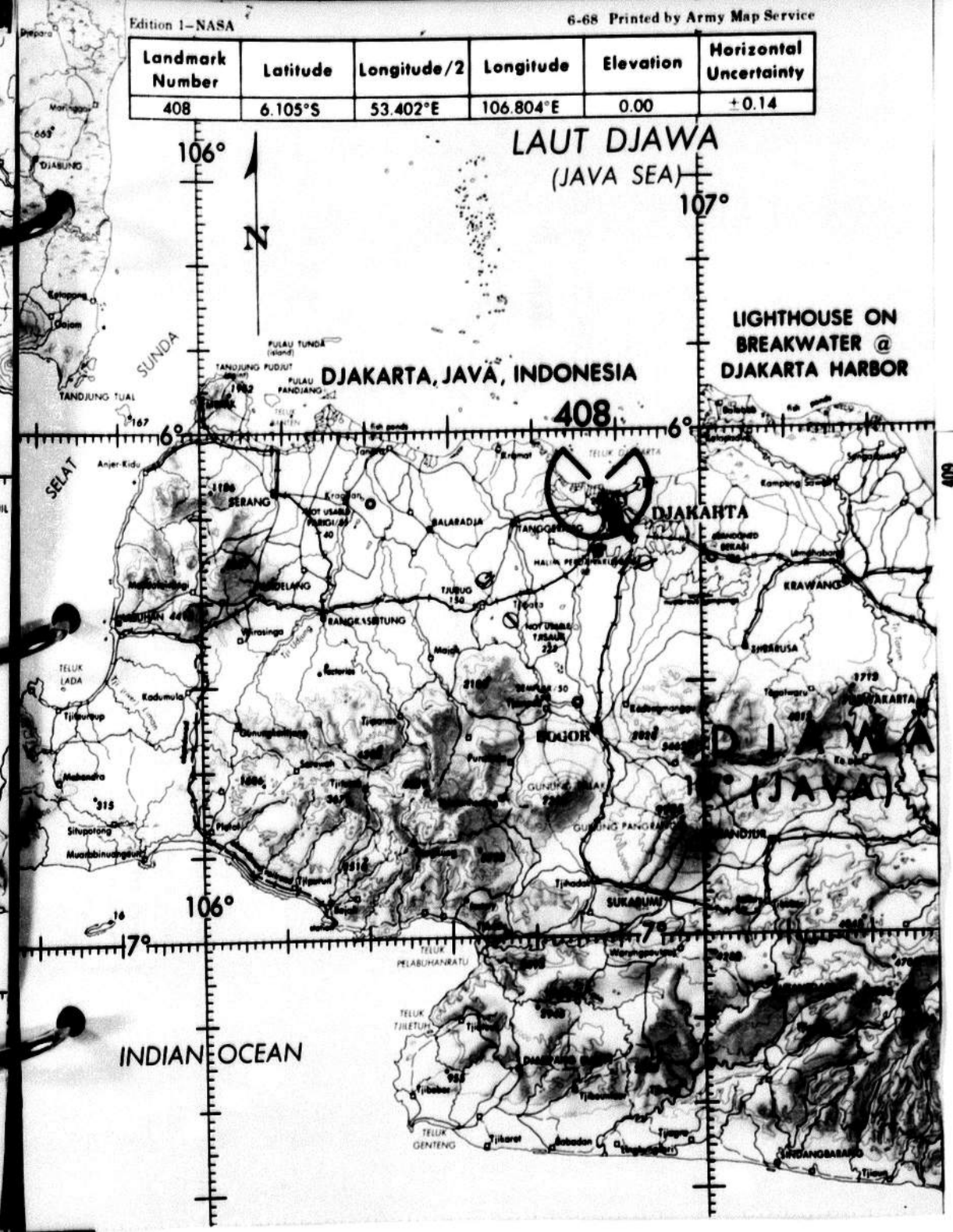
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
406	5.926°S	52.278°E	104.556°E	+.04	±0.18
407	6.765°S	52.604°E	105.208°E	0.00	±0.14



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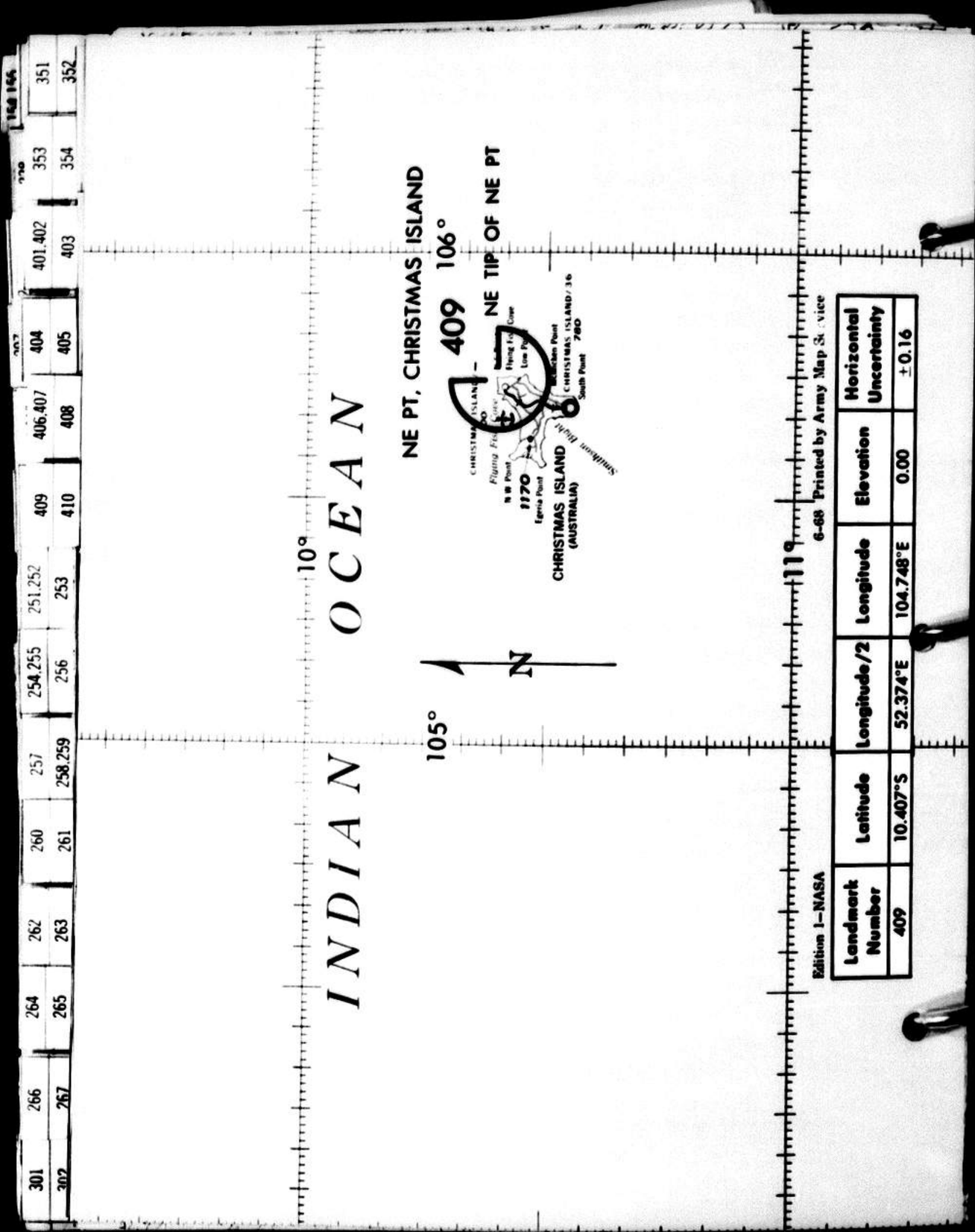
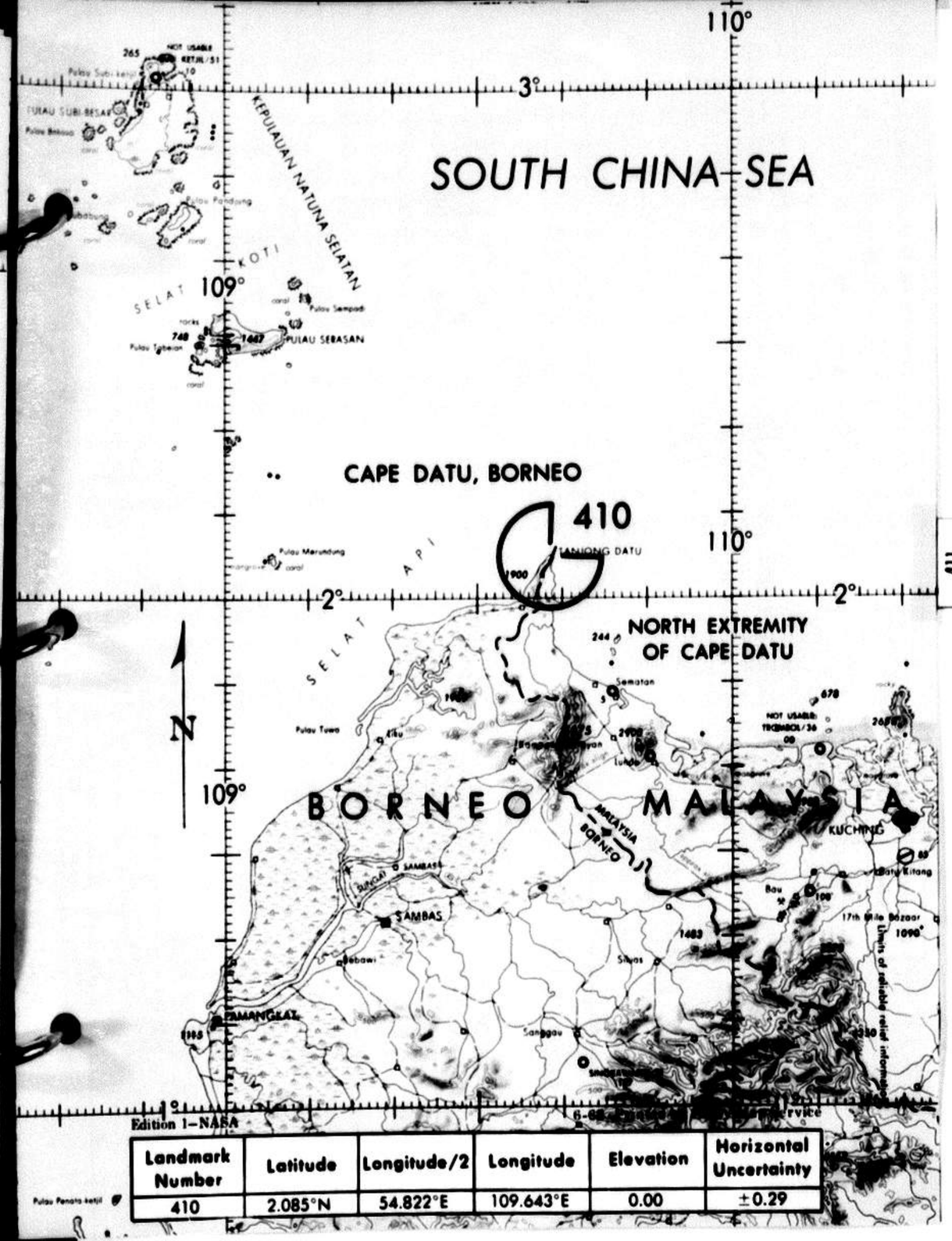
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
408	6.105°S	53.402°E	106.804°E	0.00	±0.14



Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
409	10.407°S	52.374°E	104.748°E	0.00	±0.16



Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
410	2.085°N	54.822°E	109.643°E	0.00	±0.29

301	266	264	262	260	257	254,255	411	409	406,407	404	401,402	353	351
302	267	265	263	261	258,259	256	412	410	408	405	403	354	352

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
411	4.589°N	56.984°E	113.967°E	0.00	±0.17

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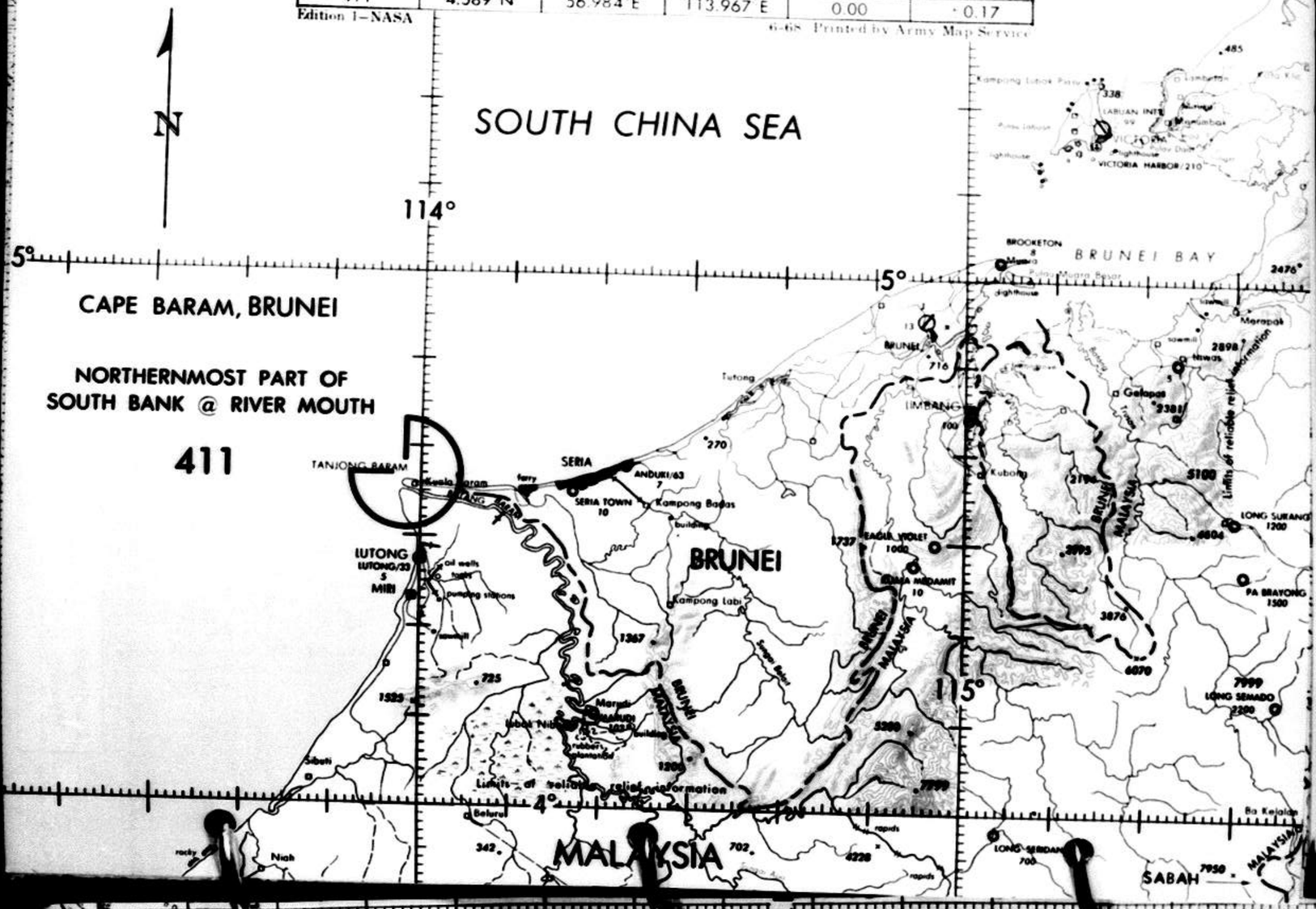

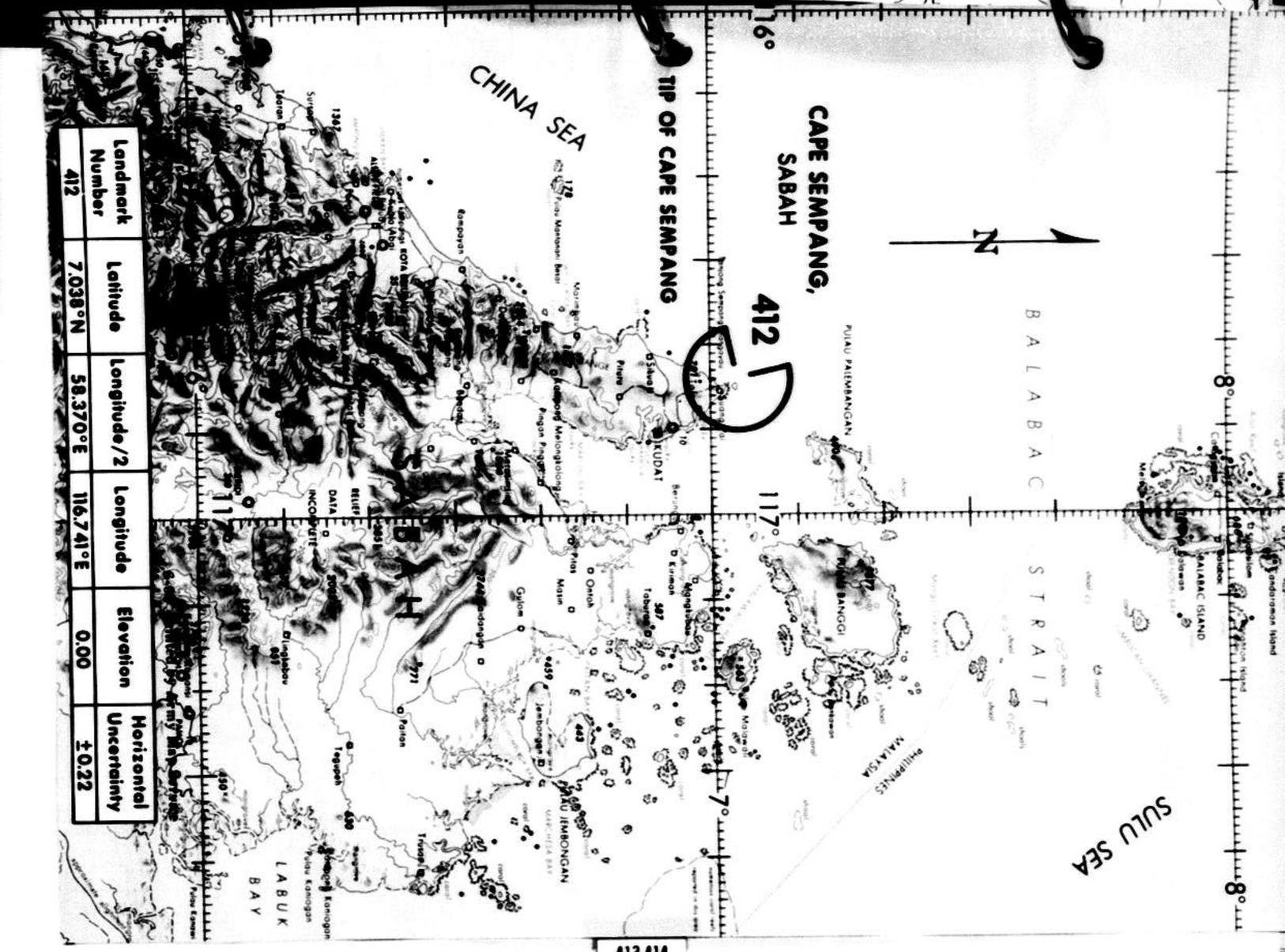

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
412	7.038°N	58.370°E	116.741°E	0.00	±0.22

413,414	
415,416	

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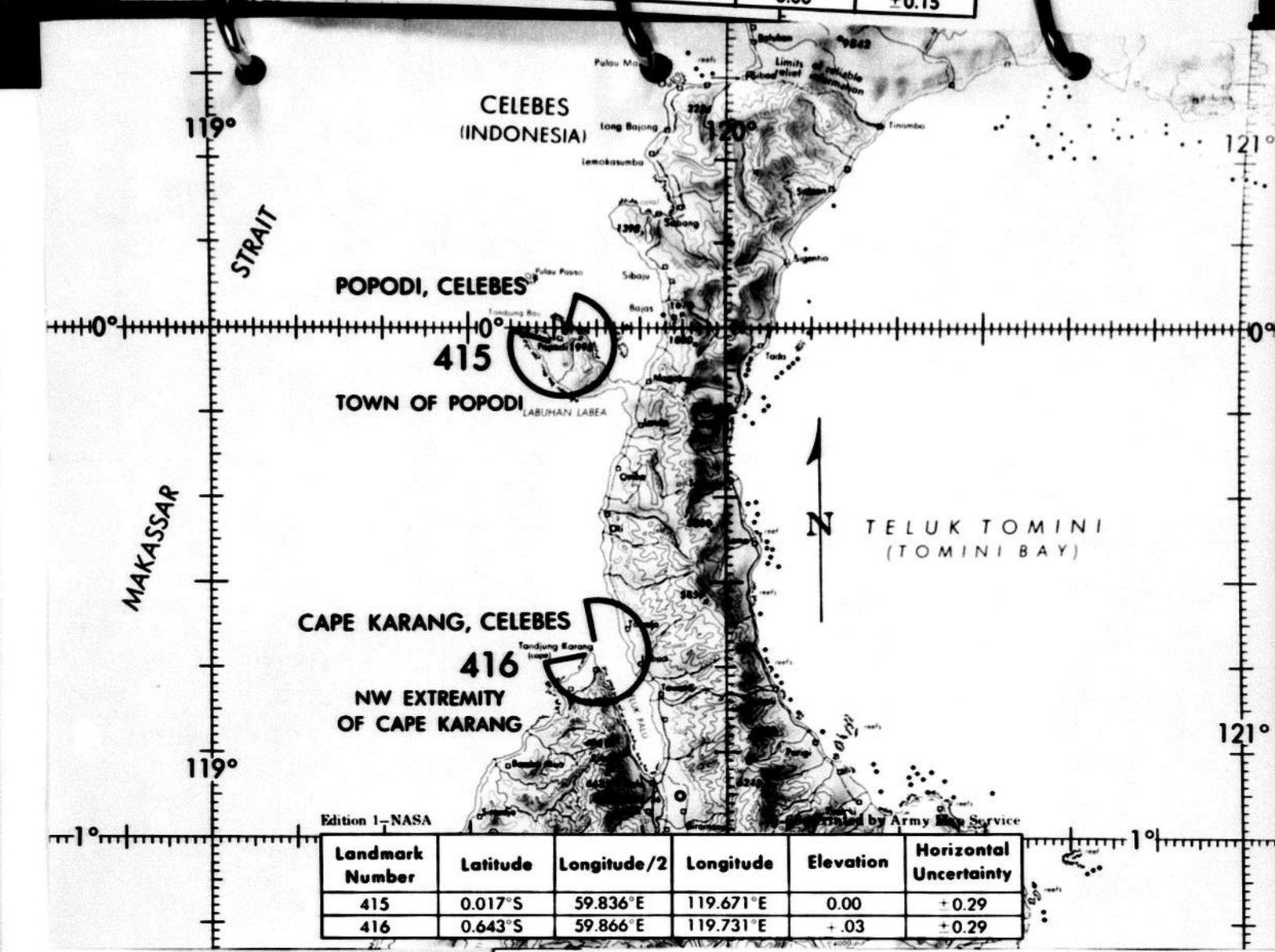
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
413	8.738°S	57.170°E	114.341°E	0.00	±0.14
414	8.447°S	57.193°E	114.386°E	0.00	±0.15



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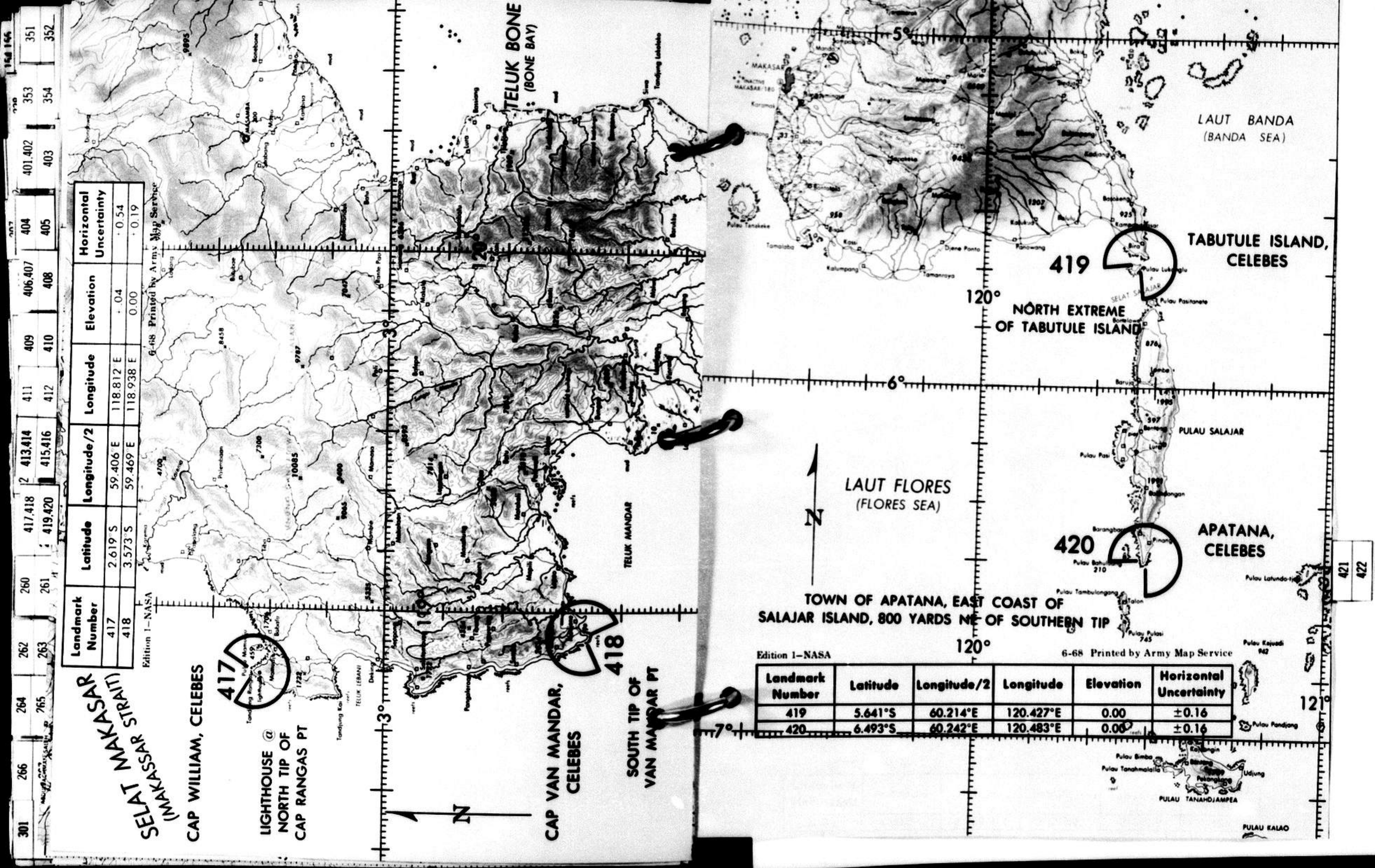
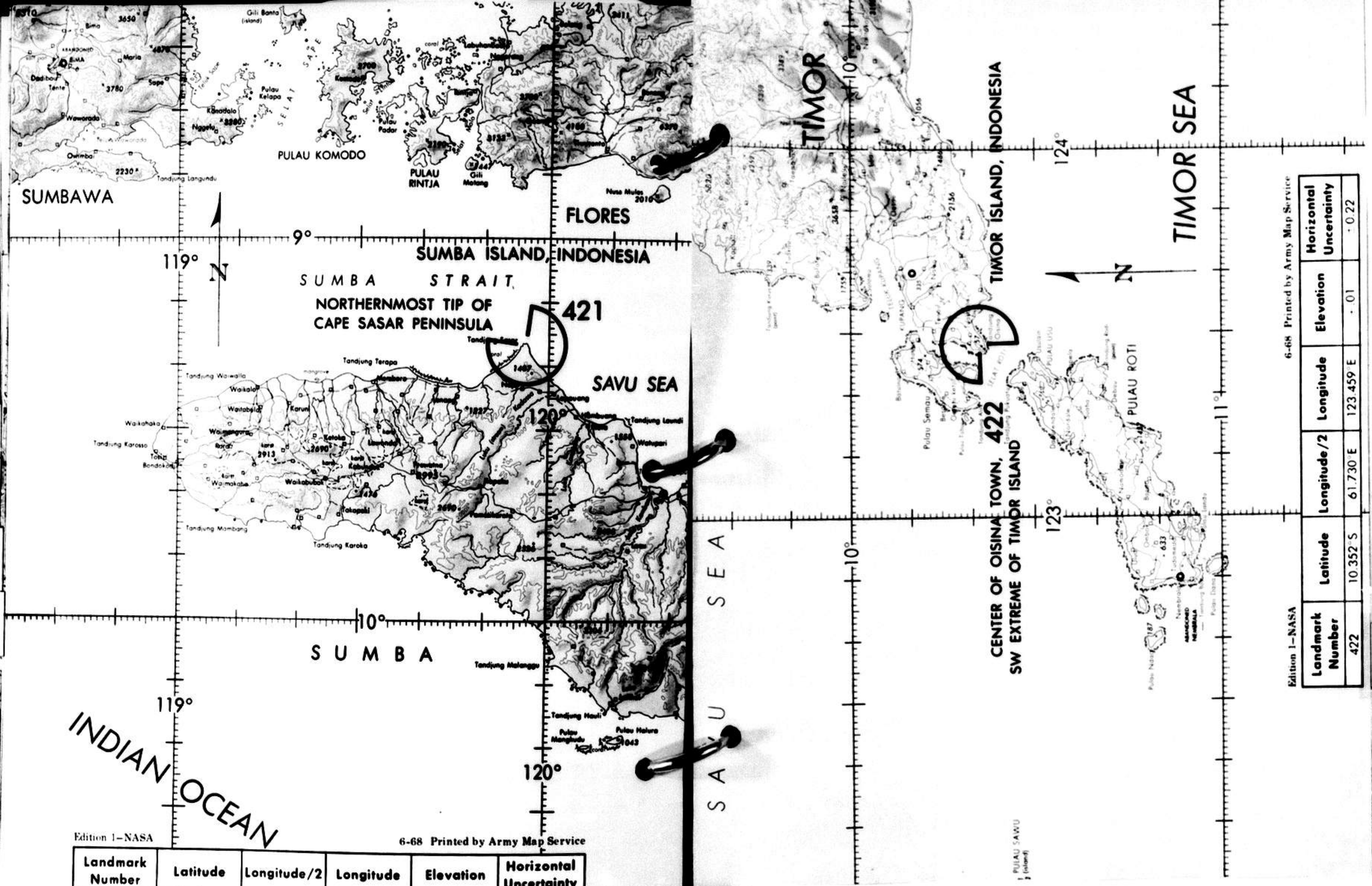
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
415	0.017°S	59.836°E	119.671°E	0.00	±0.29
416	0.643°S	59.866°E	119.731°E	+.03	±0.29



Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
417	2.619°S	59.406°E	118.812°E	-.04	±0.54
418	3.573°S	59.469°E	118.938°E	0.00	±0.19

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
419	5.641°S	60.214°E	120.427°E	0.00	±0.16
420	6.493°S	60.242°E	120.483°E	0.00	±0.16



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Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
421	9.277°S	59.970°E	119.939°E	0.00	±0.19

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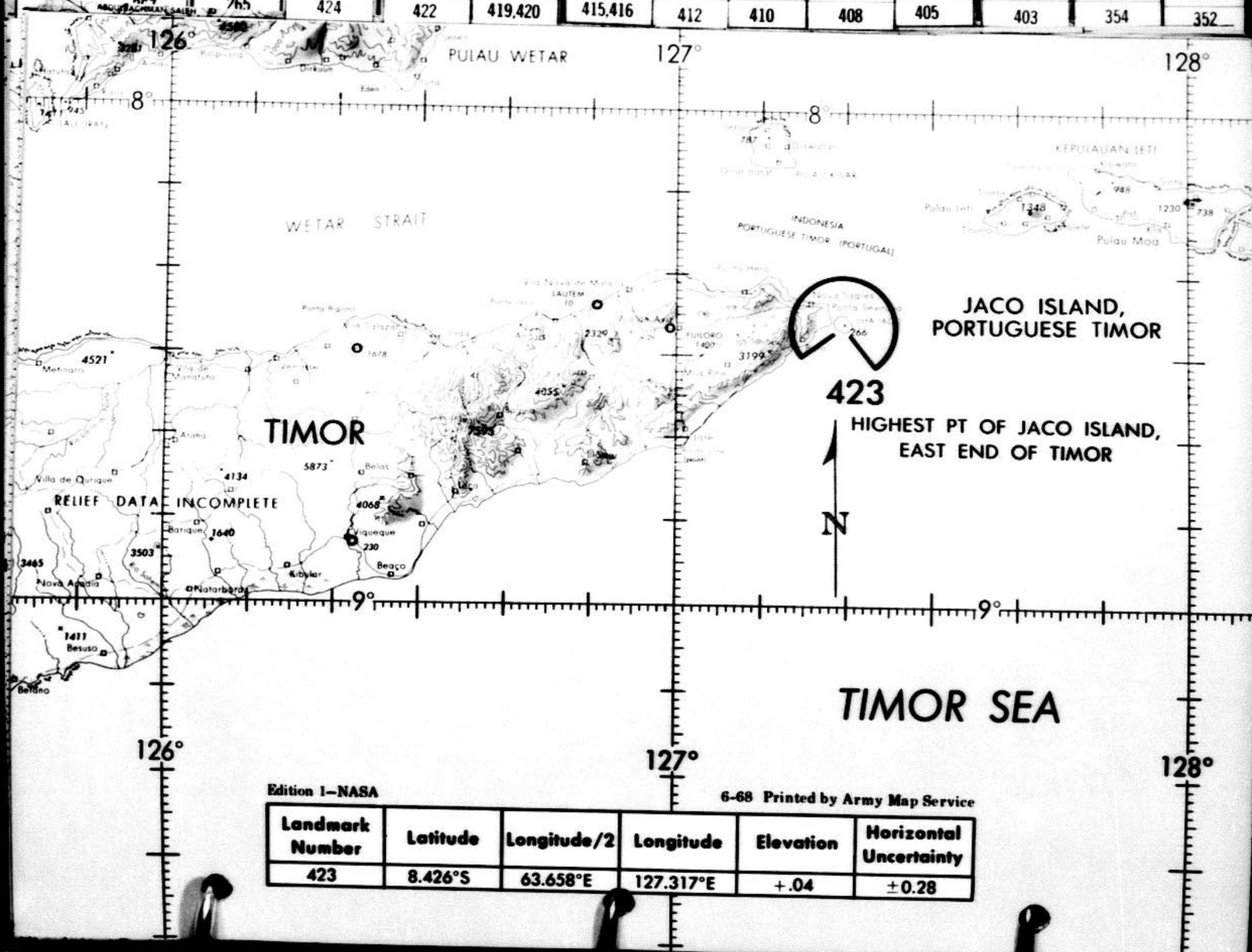
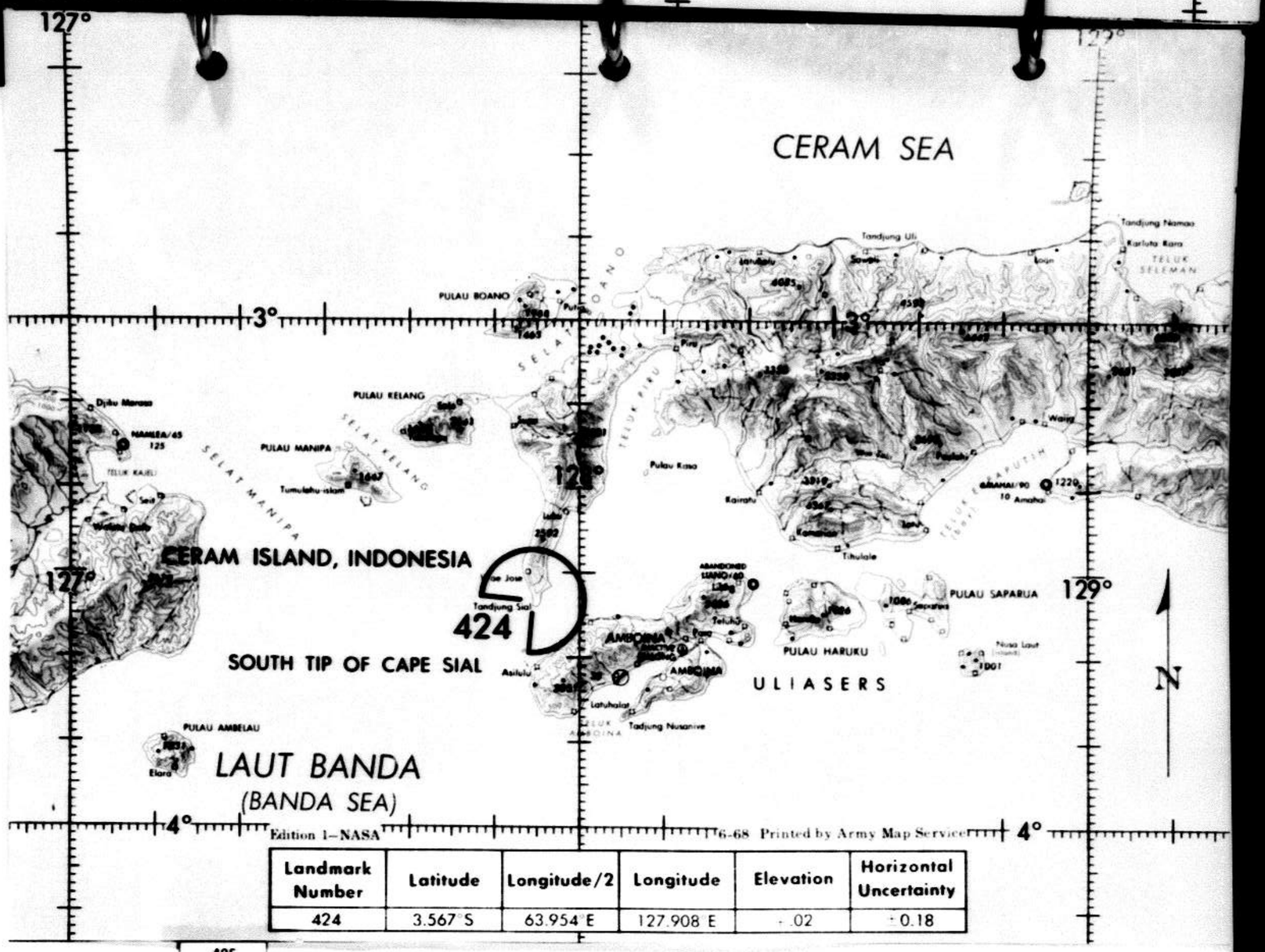
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
422	10.352°S	61.730°E	123.459°E	.01	.0.22



Edition 1—NASA

6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
423	8.426°S	63.658°E	127.317°E	+.04	±0.28



Edition 1—NASA

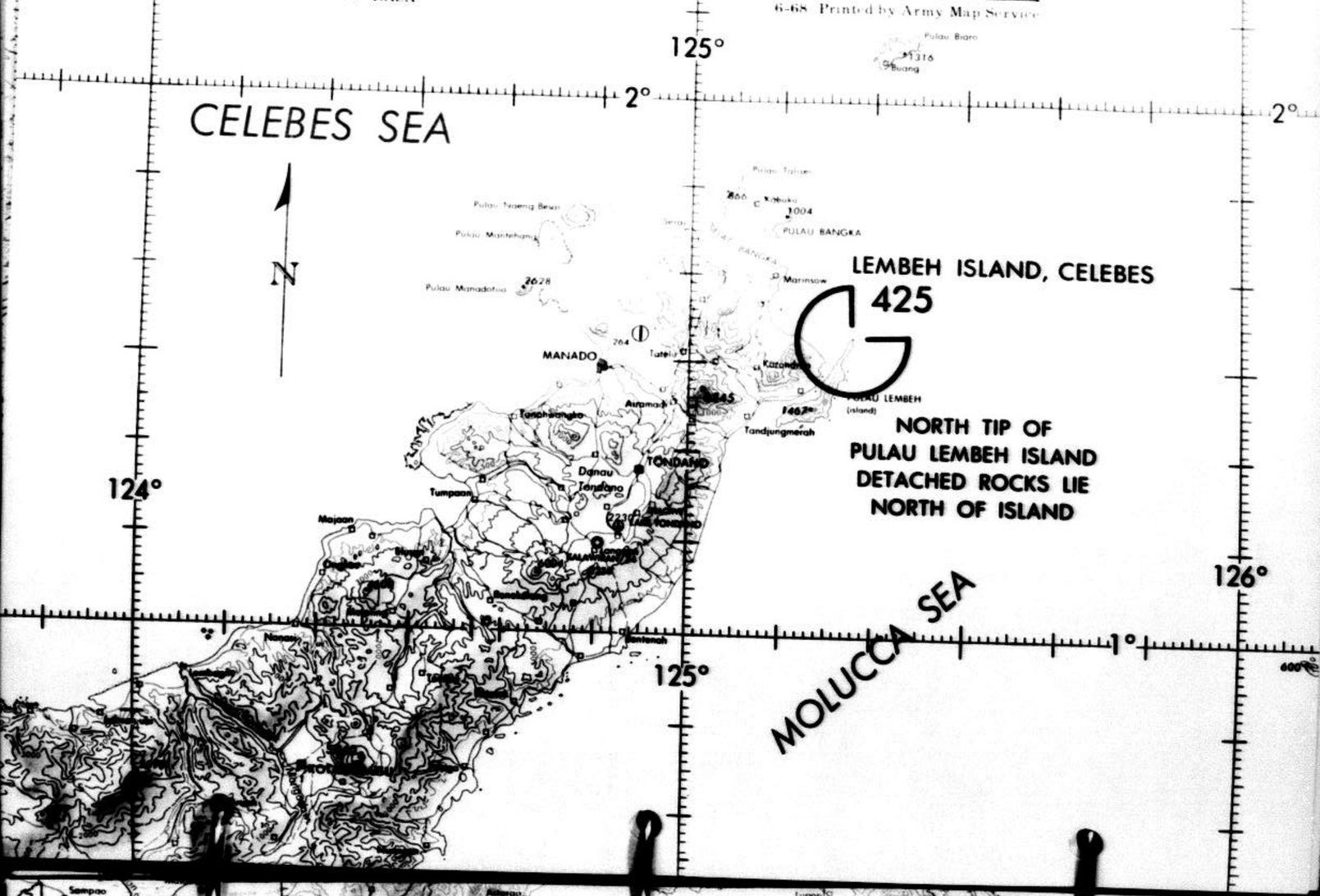
6-68 Printed by Army Map Service

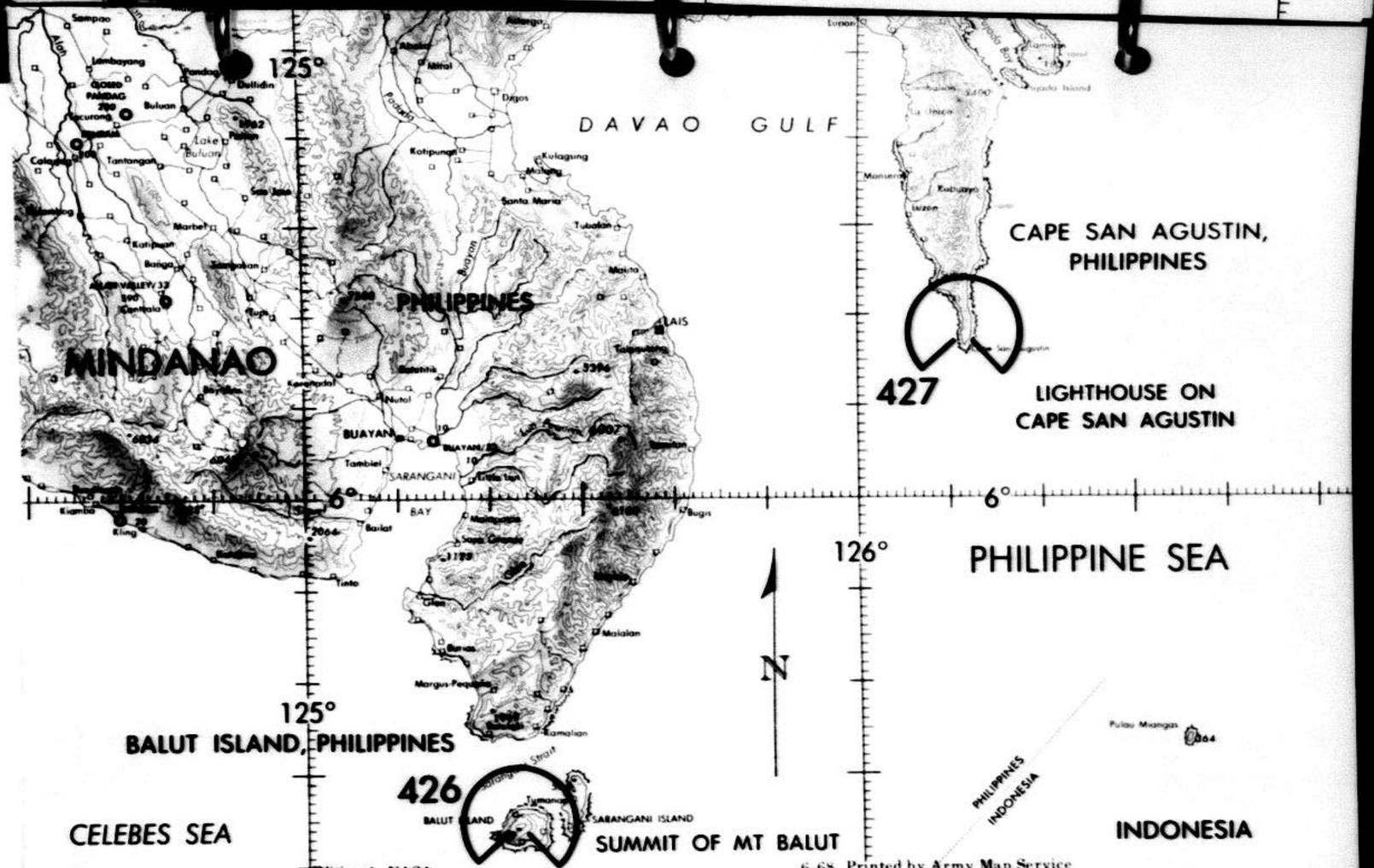
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
424	3.567°S	63.954°E	127.908°E	-.02	±0.18

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
425	1.545 N	62.644 E	125.289 E	-0.03	±0.18

Edition 1—NASA

6-68 Printed by Army Map Service



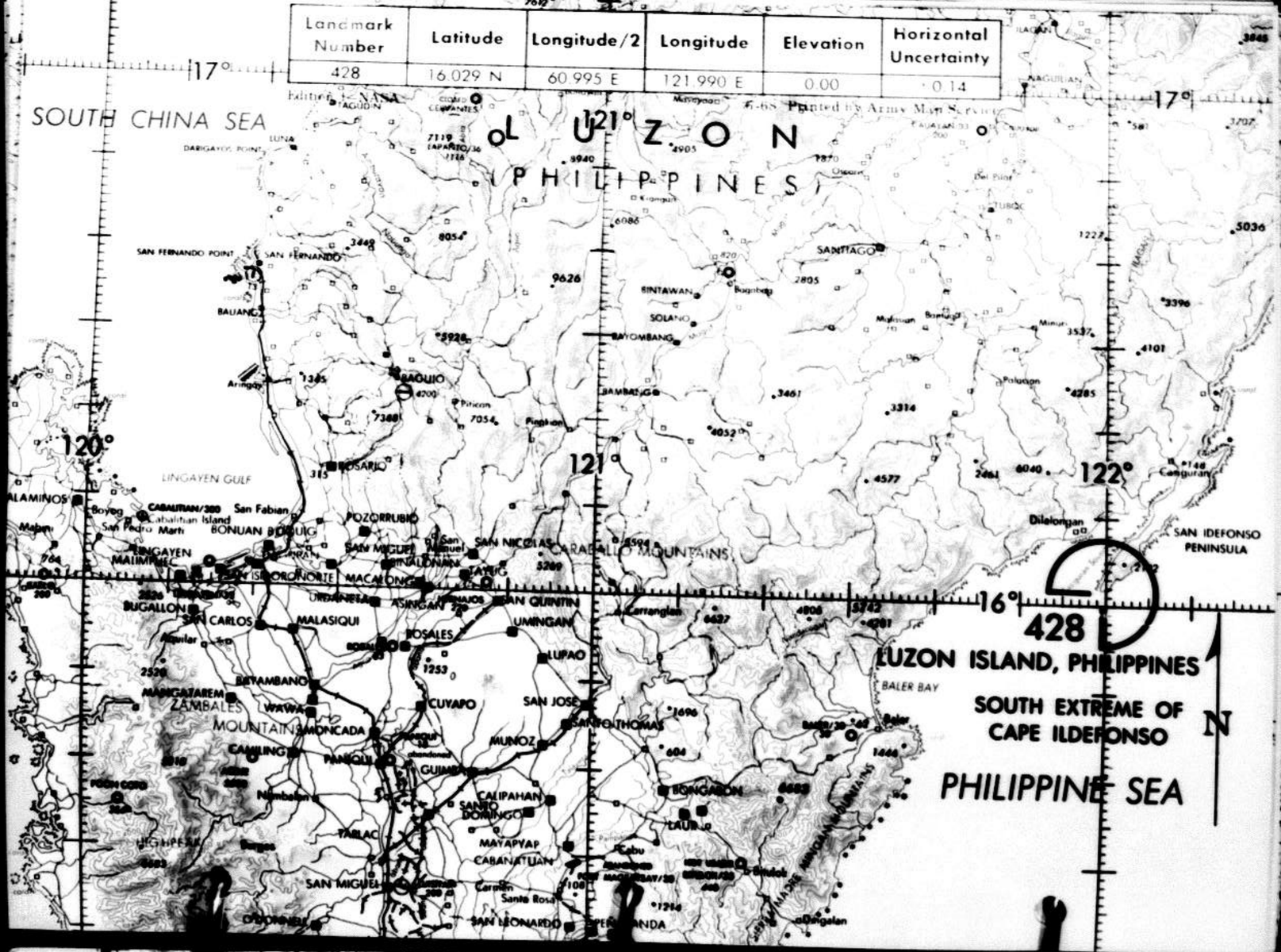


Edition 1—NASA

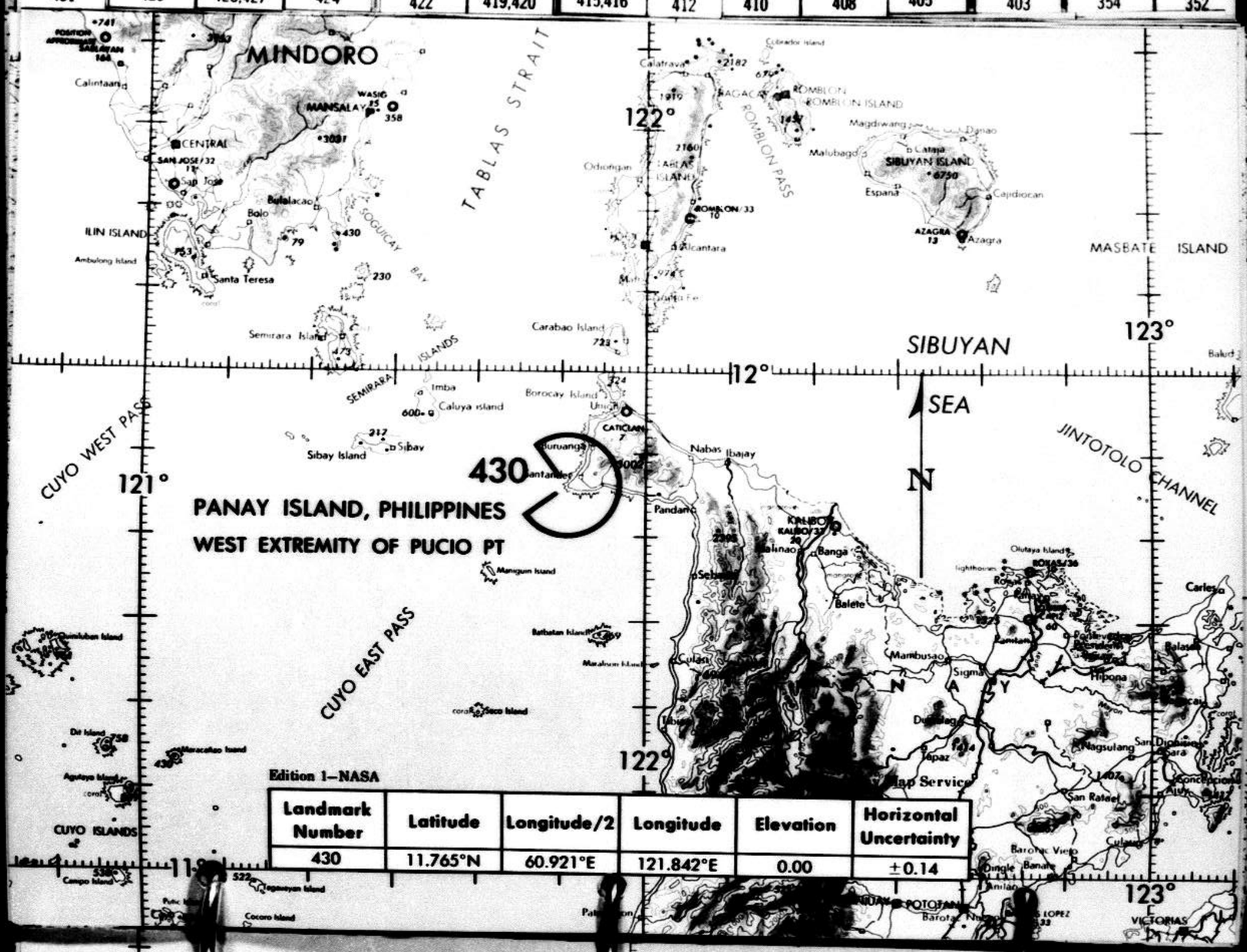
6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
426	5.399 N	62.688 E	125.375 E	-0.47	±0.14
427	6.271 N	63.096 E	126.191 E	-0.01	±0.14

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
428	16.029 N	60.995 E	121.990 E	0.00	±0.14



Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
429	14.499 N	60.459 E	120.918 E	+02	±0.14



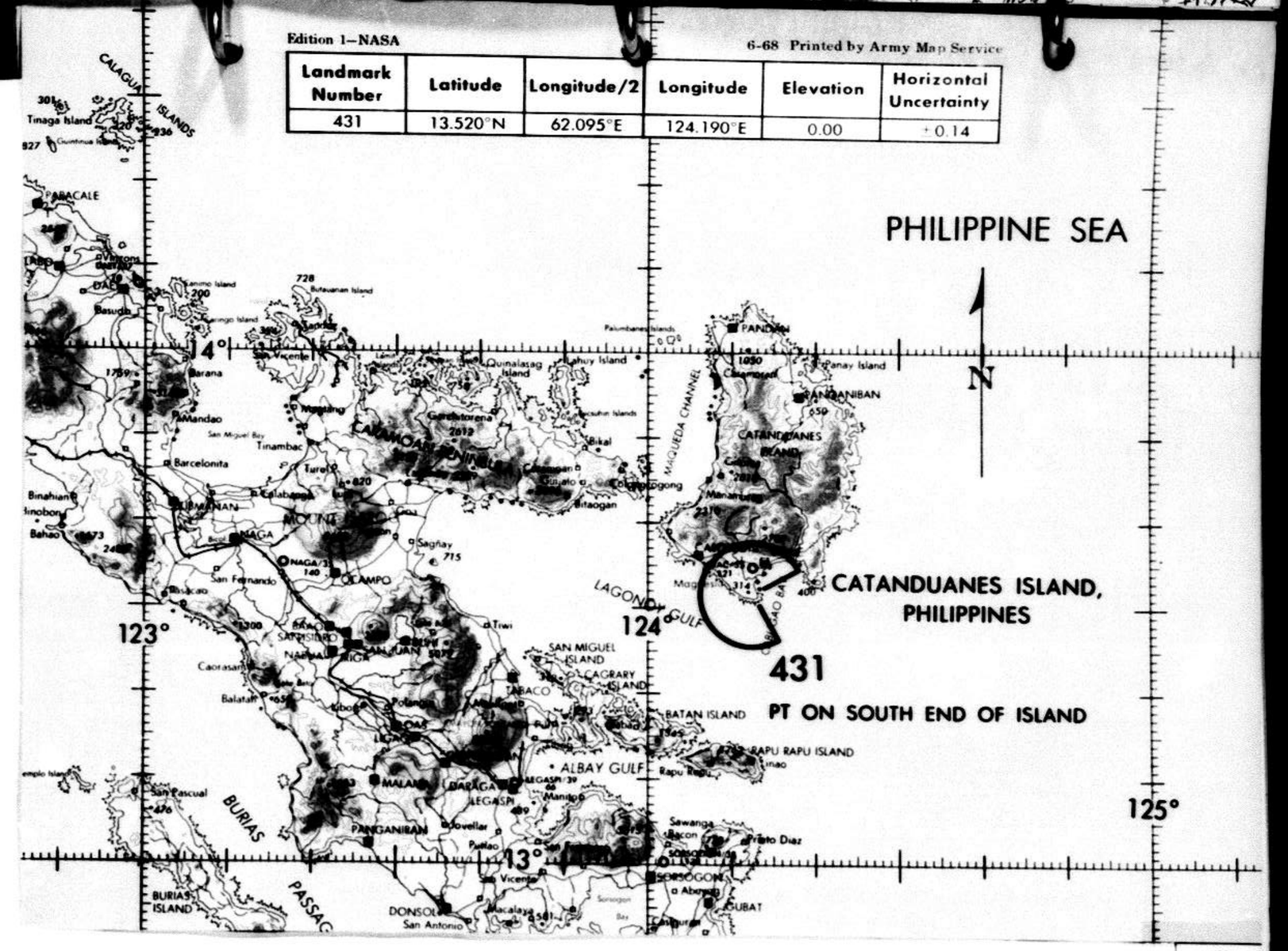
430

PANAY ISLAND, PHILIPPINES

WEST EXTREMITY OF PUCIO PT

Edition 1—NASA

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
430	11.765°N	60.921°E	121.842°E	0.00	±0.14



Edition 1—NASA

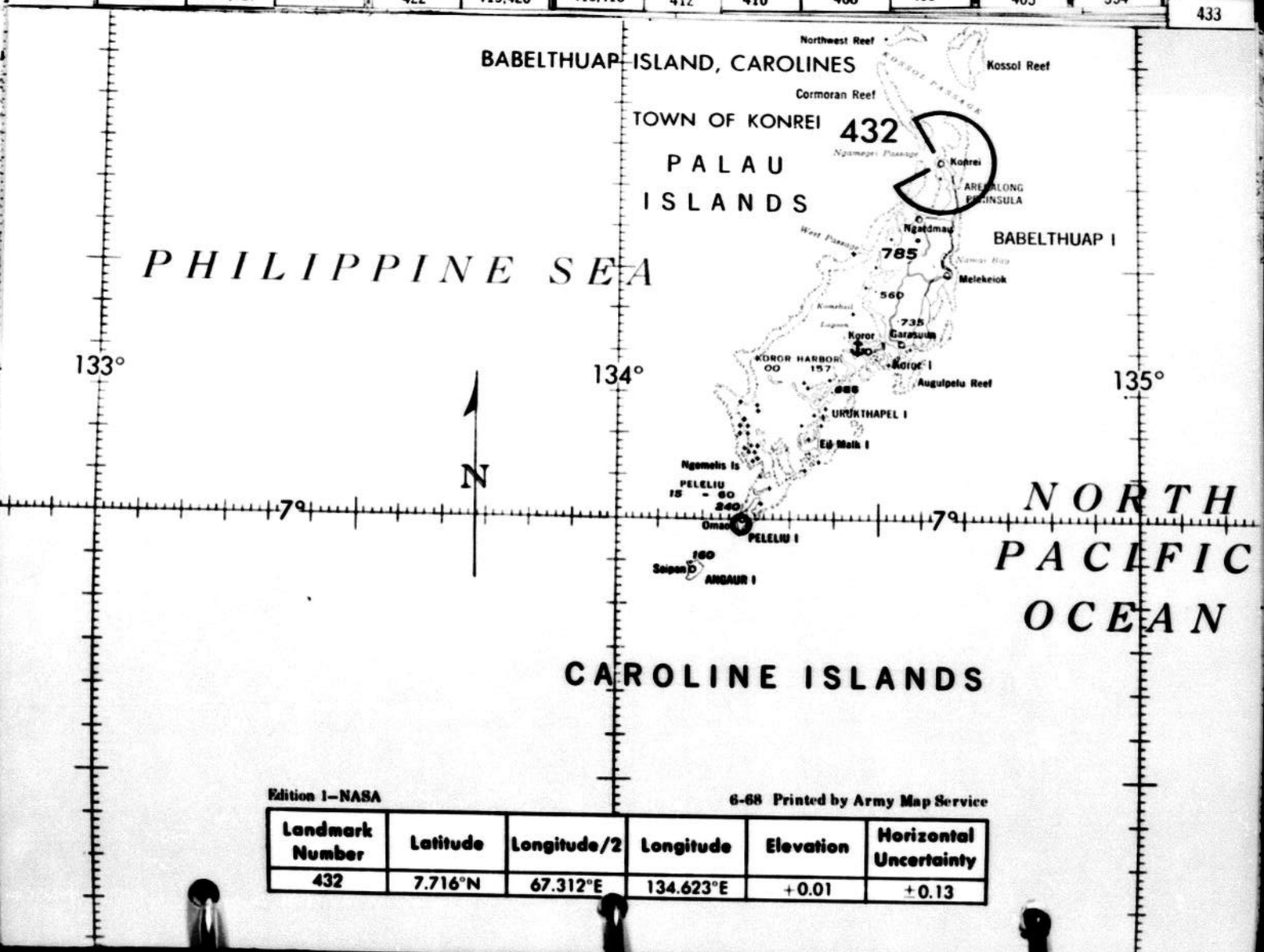
6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
431	13.520°N	62.095°E	124.190°E	0.00	±0.14

431

CATANDUANES ISLAND, PHILIPPINES

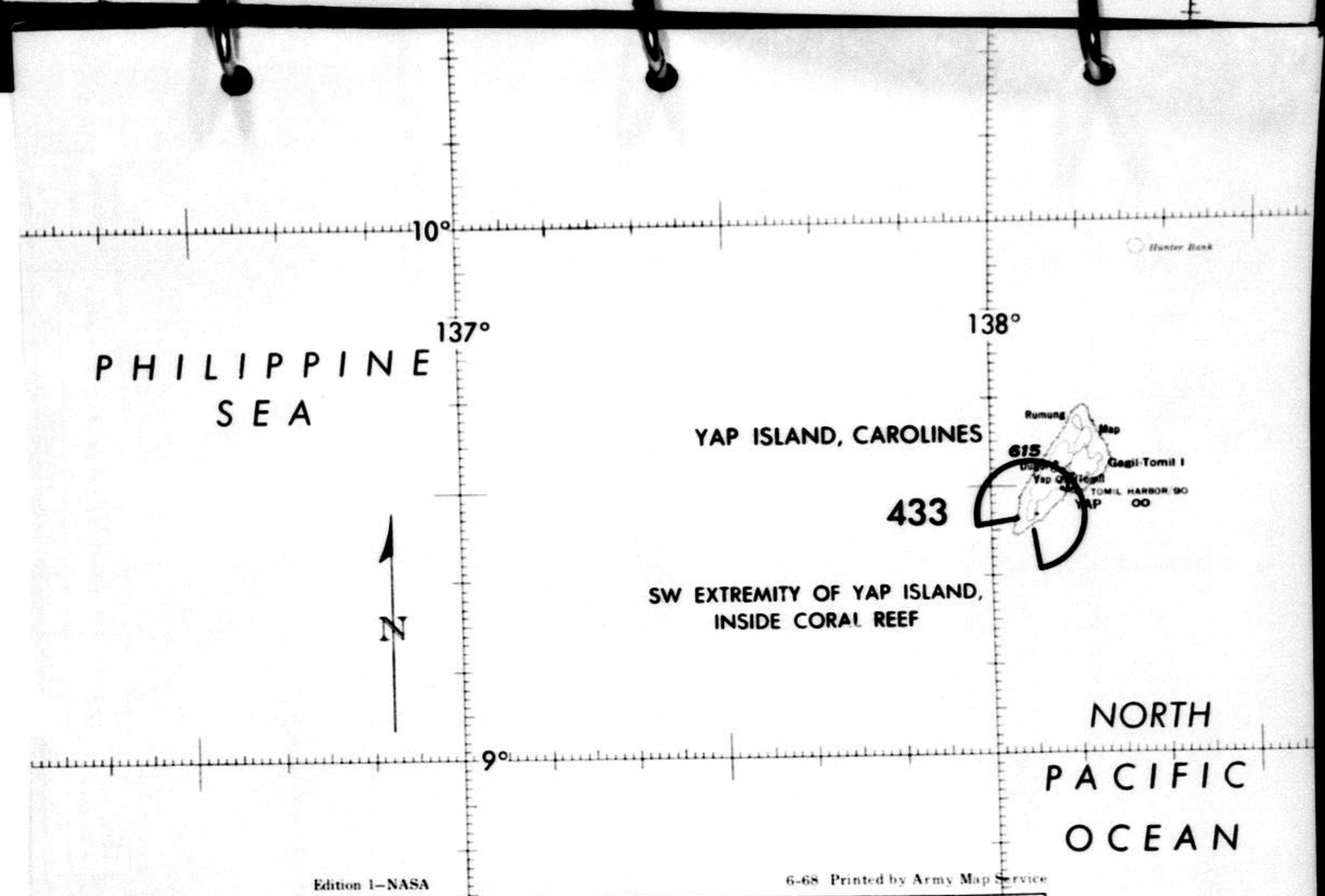
PT ON SOUTH END OF ISLAND



Edition 1–NASA

6-68 Printed by Army Map Service

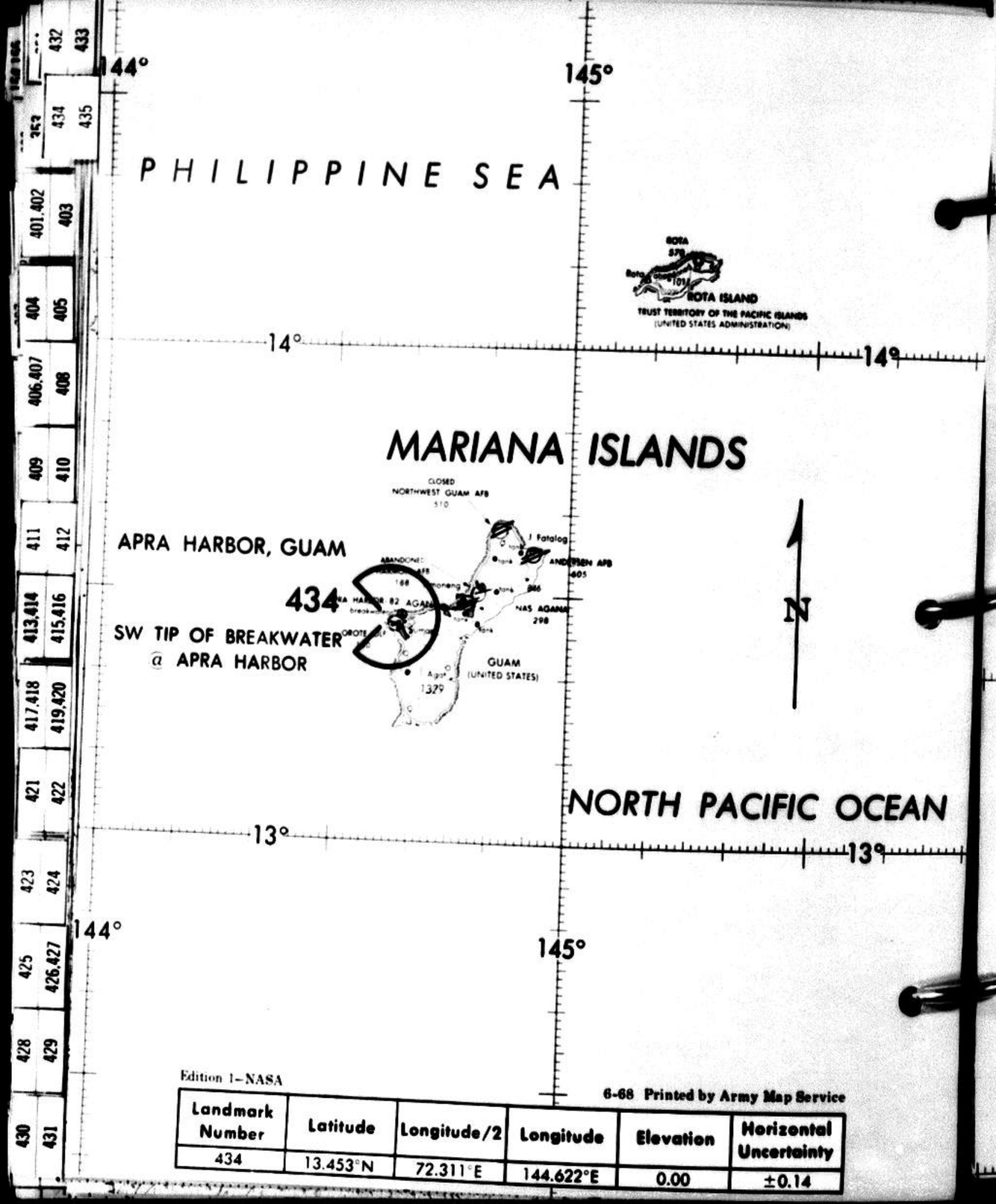
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
432	7.716°N	67.312°E	134.623°E	+0.01	±0.13



Edition 1–NASA

6-68 Printed by Army Map Service

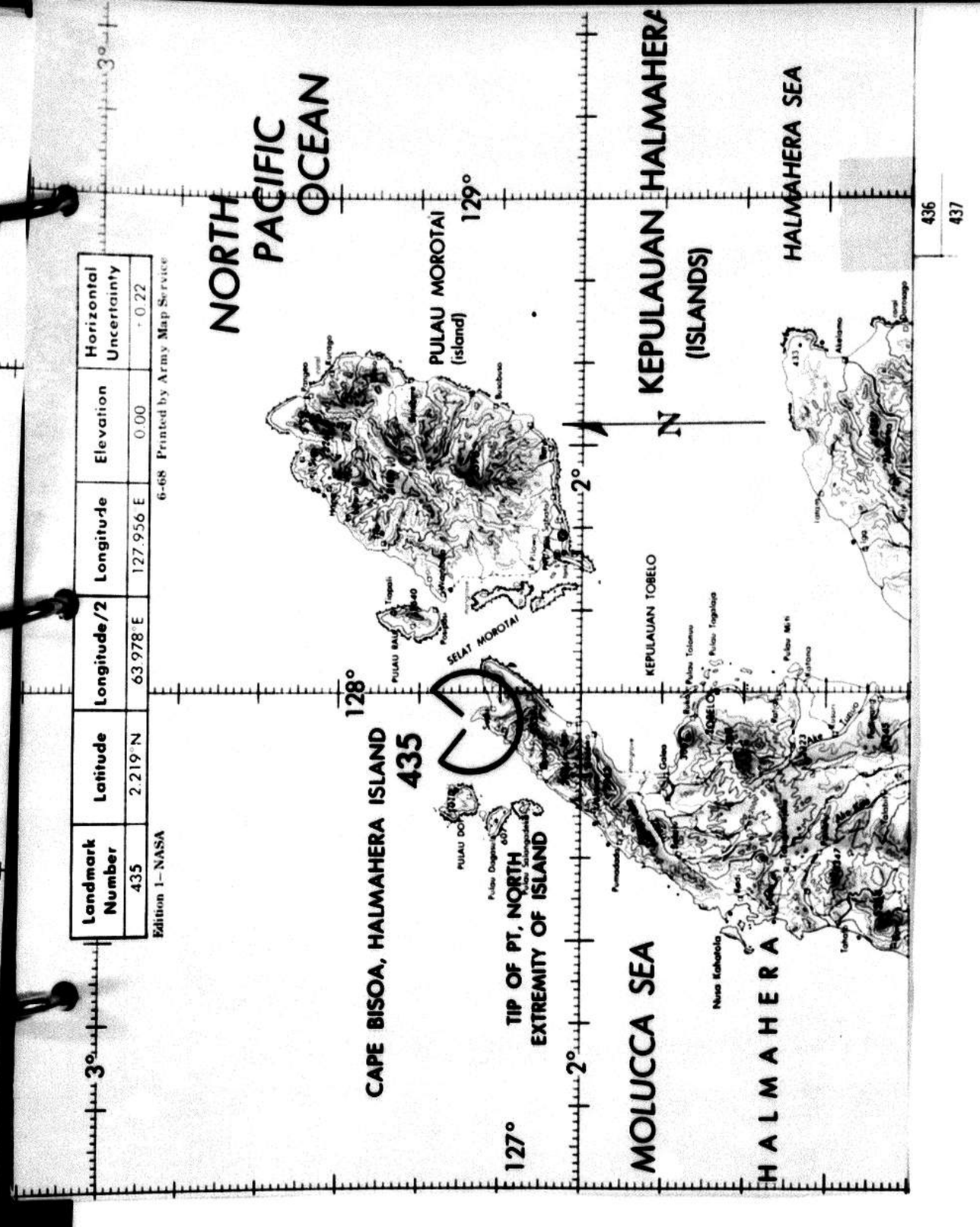
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
433	9.440 N	69.026 E	138.052 E	0.00	±0.13



Edition 1–NASA

6-68 Printed by Army Map Service

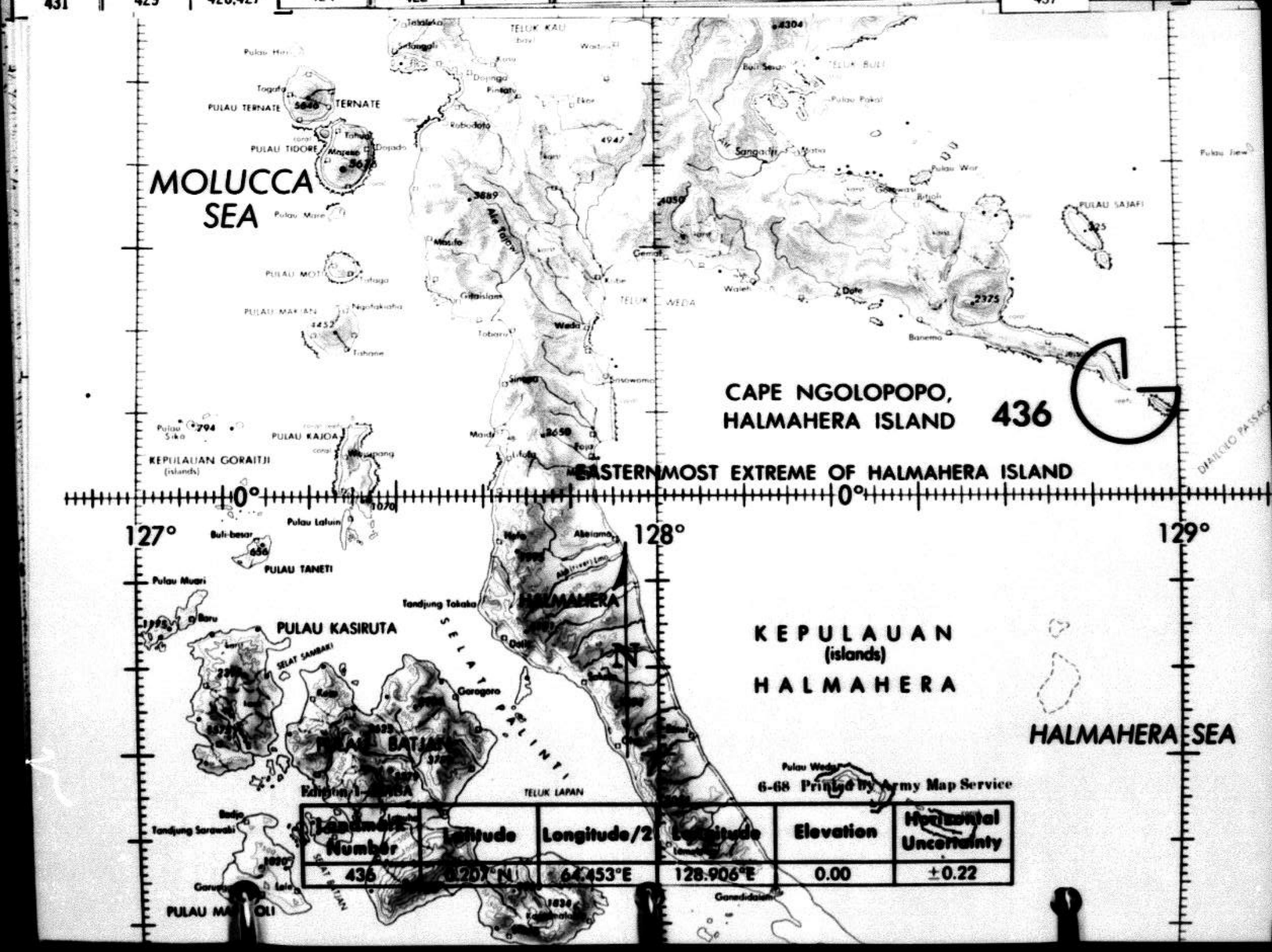
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
434	13.453°N	72.311°E	144.622°E	0.00	±0.14



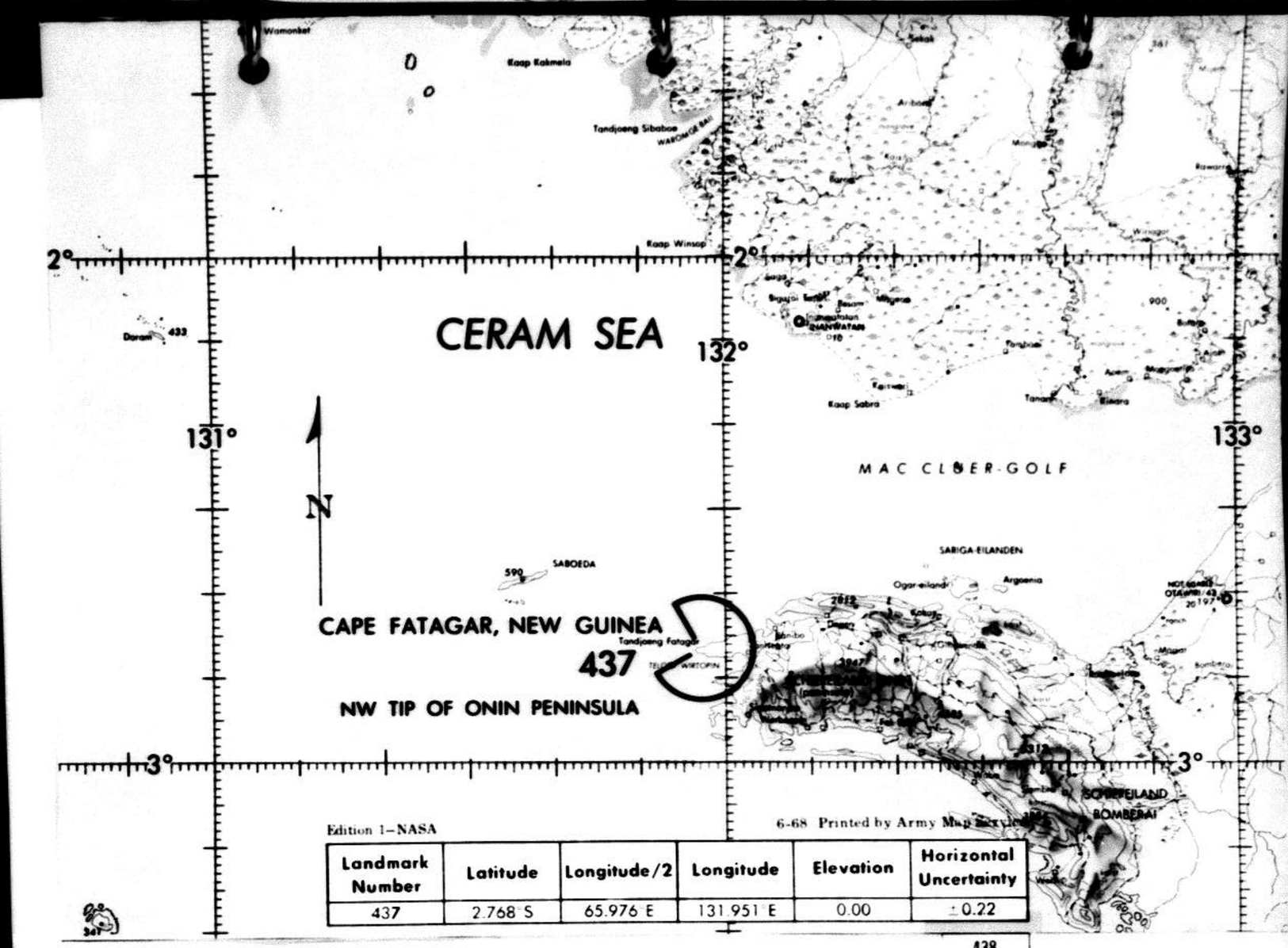
Edition 1–NASA

6-68 Printed by Army Map Service

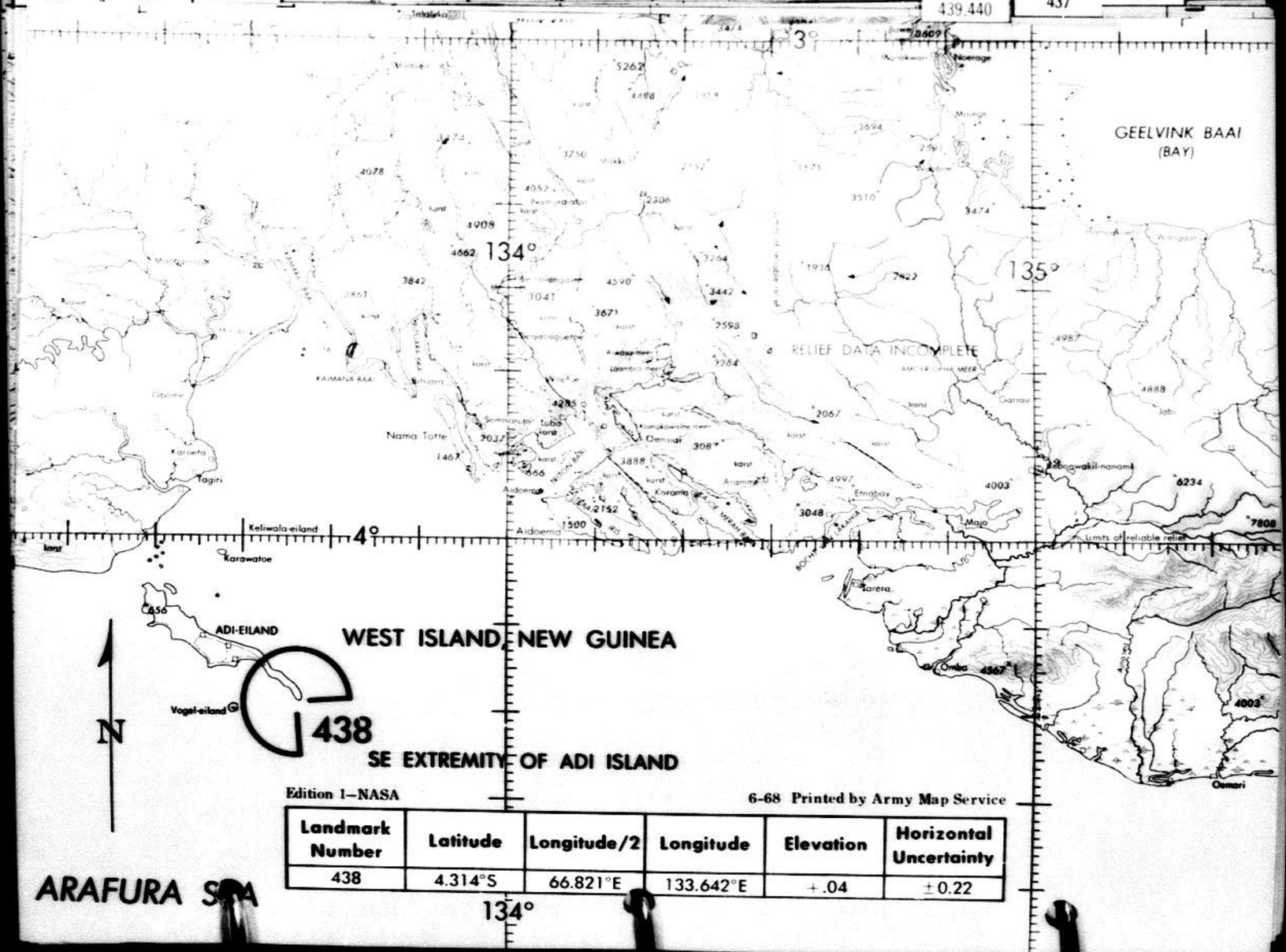
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
435	2.219°N	63.978°E	127.956 E	0.00	±0.22



Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
436	0.207°N	64.453°E	128.906°E	0.00	±0.22

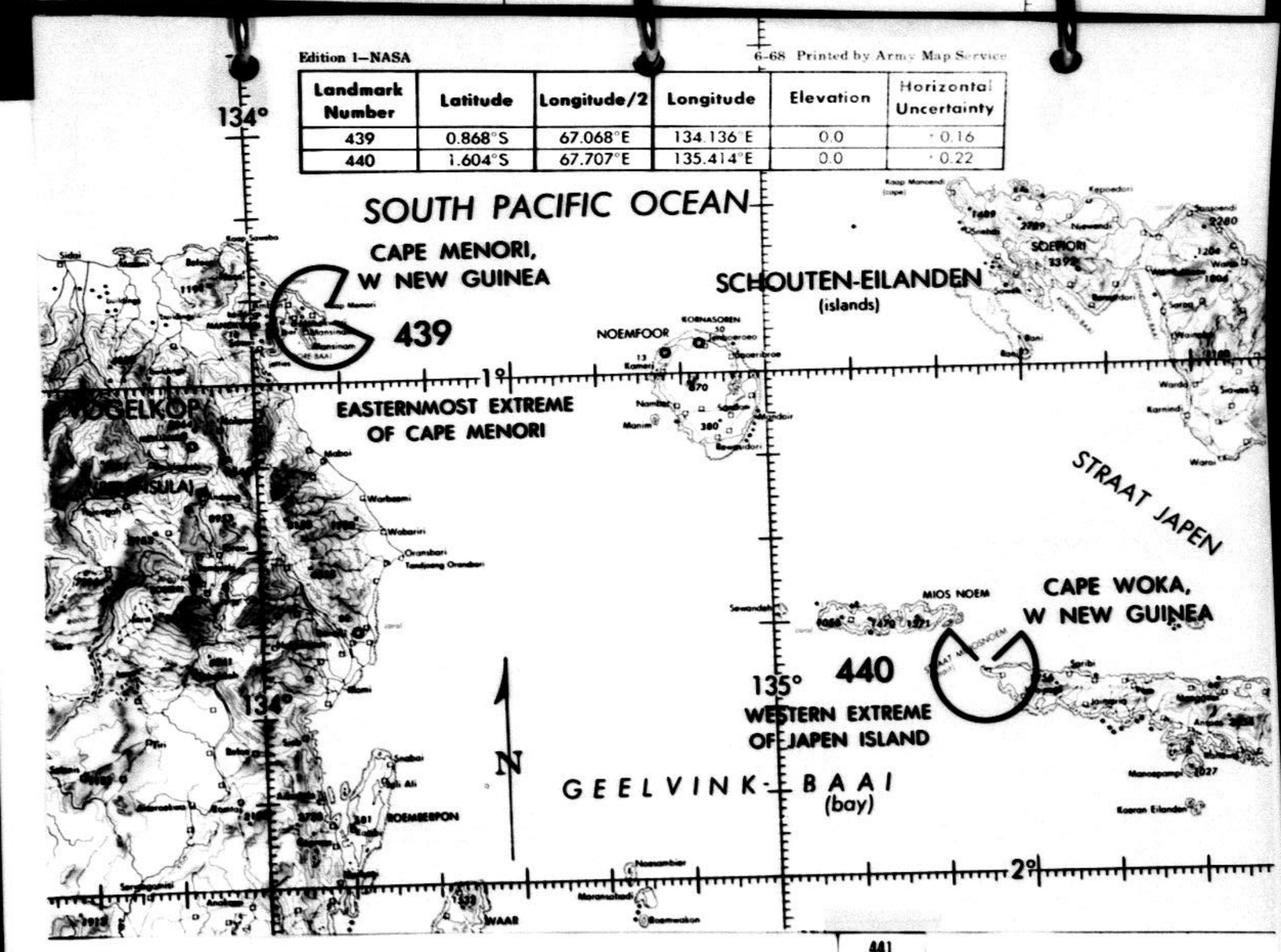


Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
437	2.768°S	65.976°E	131.951°E	0.00	±0.22



Edition 1—NASA 6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
438	4.314°S	66.821°E	133.642°E	+.04	±0.22



Edition 1—NASA 6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
439	0.868°S	67.068°E	134.136°E	0.0	±0.16
440	1.604°S	67.707°E	135.414°E	0.0	±0.22

430	428	425	423	421	417.418	413.414	411	409	406.407	404	401.402	434	432
431	429	426.427	424	422	419.420	415.416	412	410	441	438	436	435	433
									442	439.440	437		

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
441	5.334 S	73.556 E	147.113 E	+.15	±0.29

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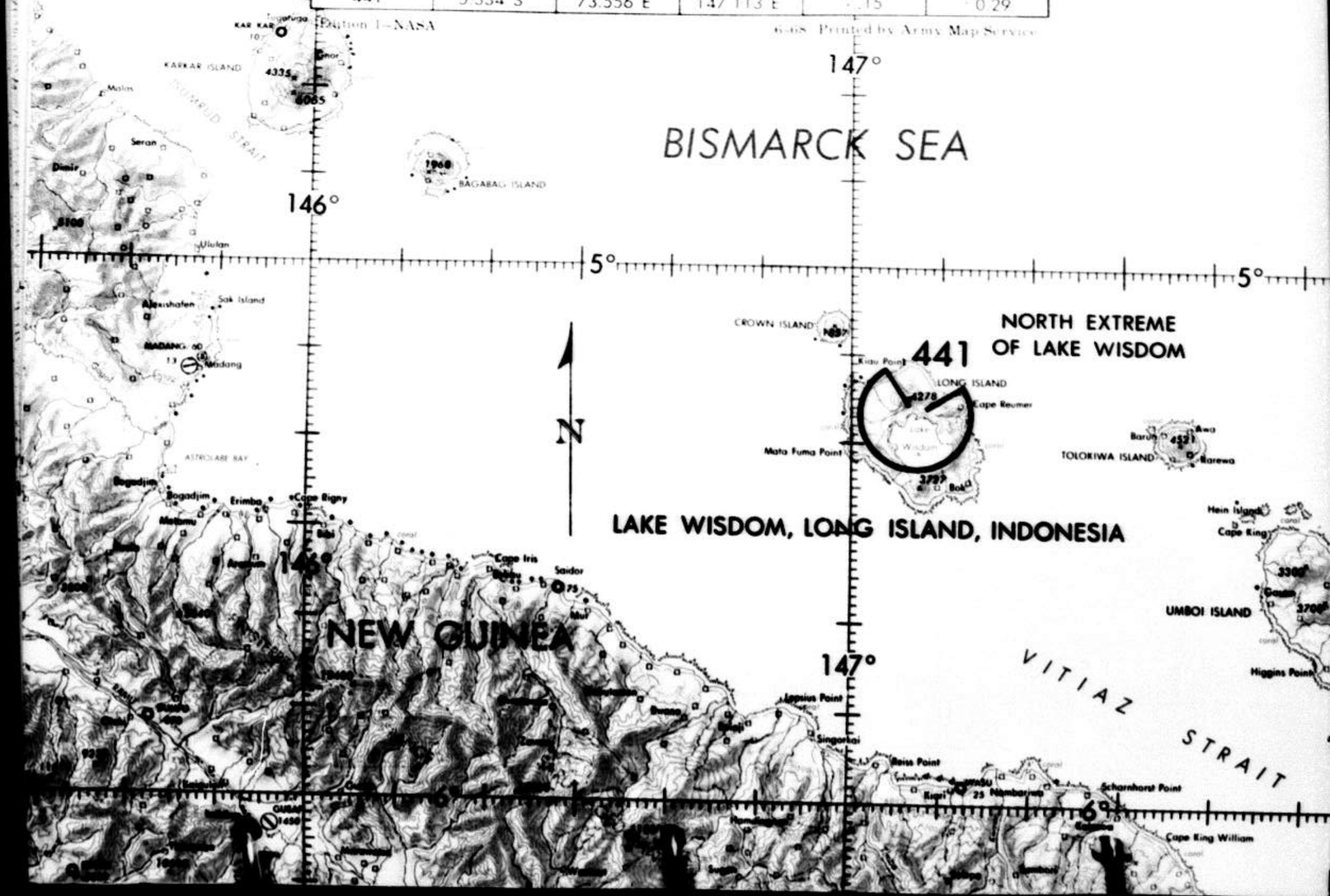
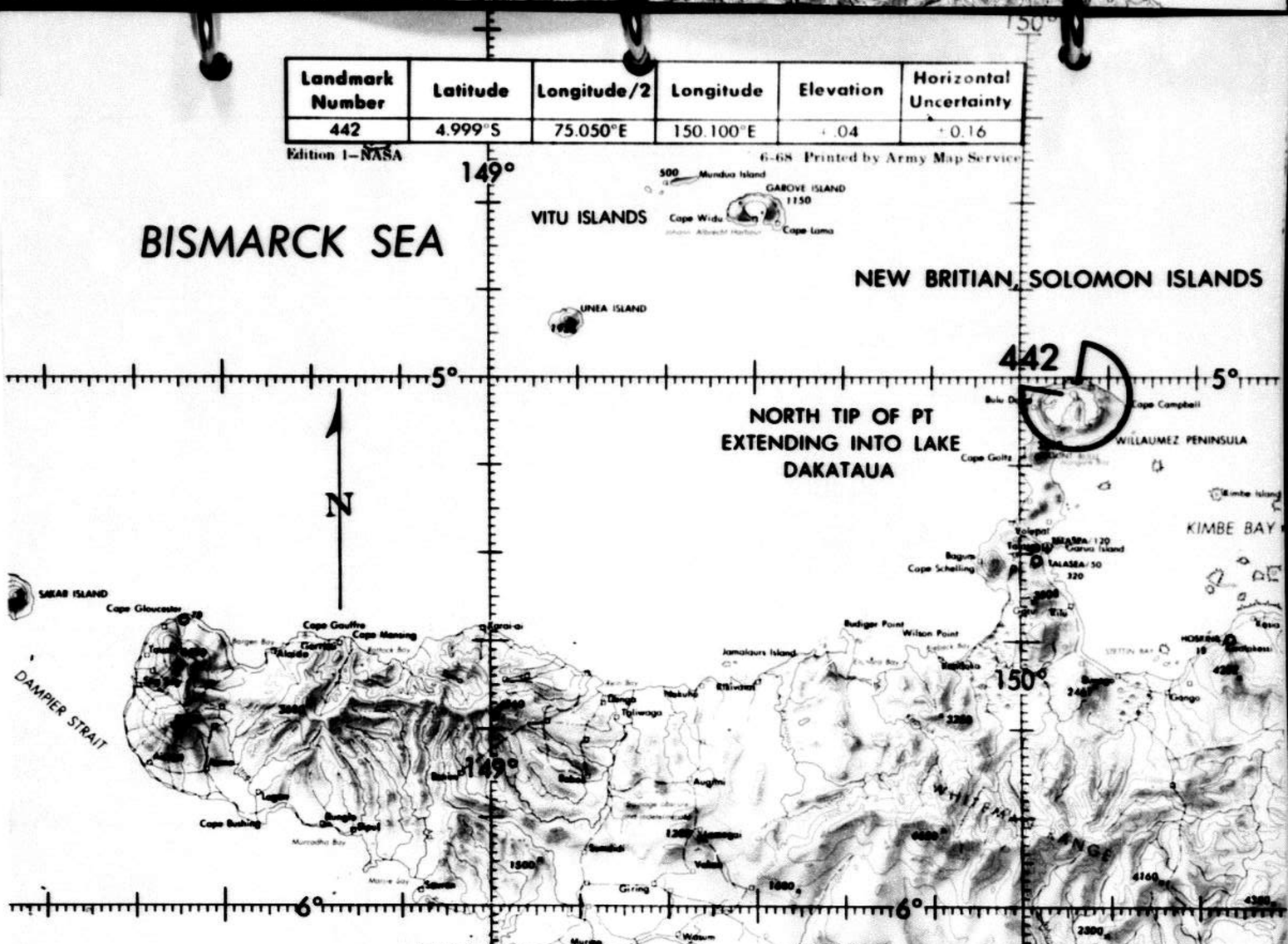


Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
442	4.999°S	75.050°E	150.100°E	+.04	±0.16

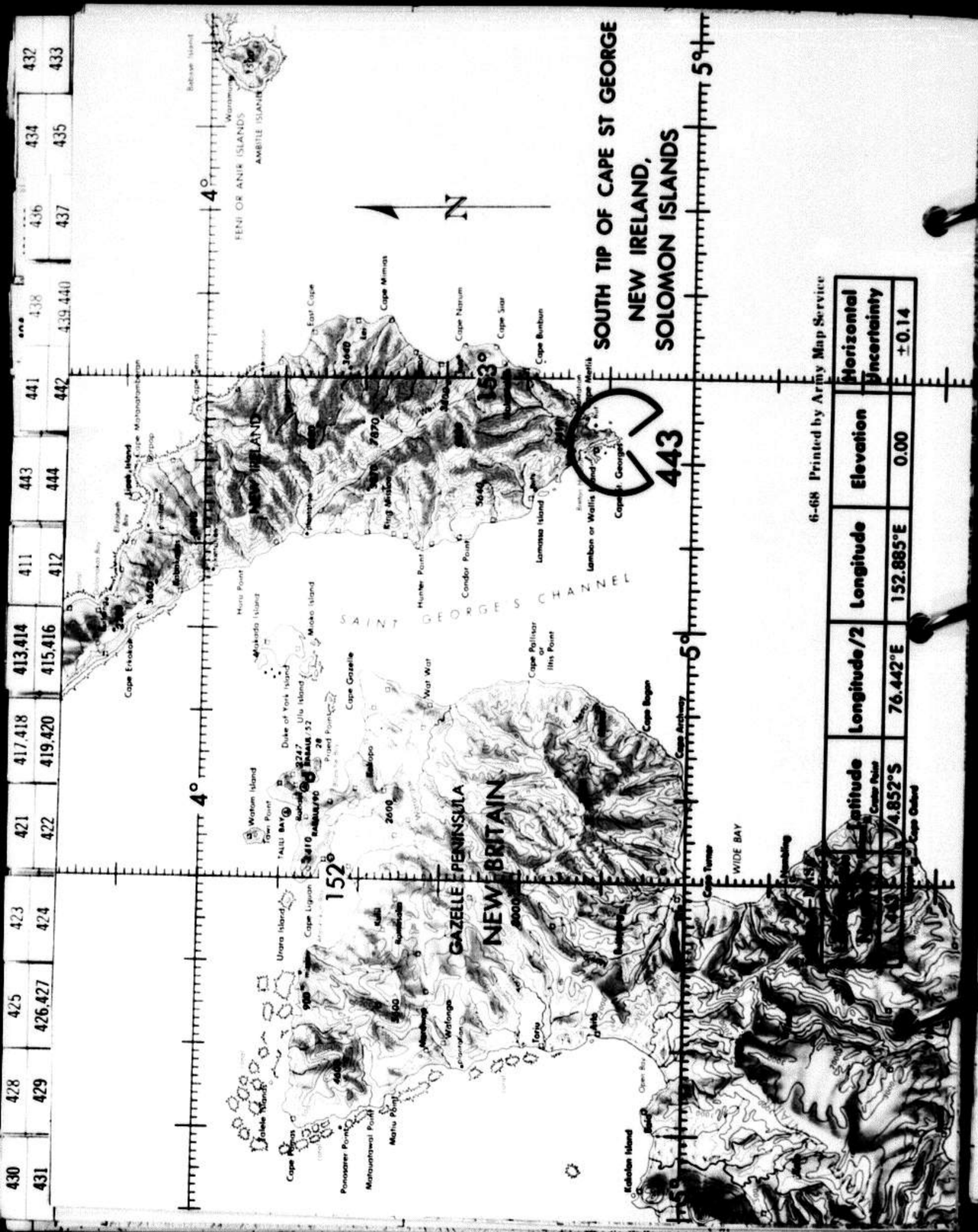
Edition 1–NASA

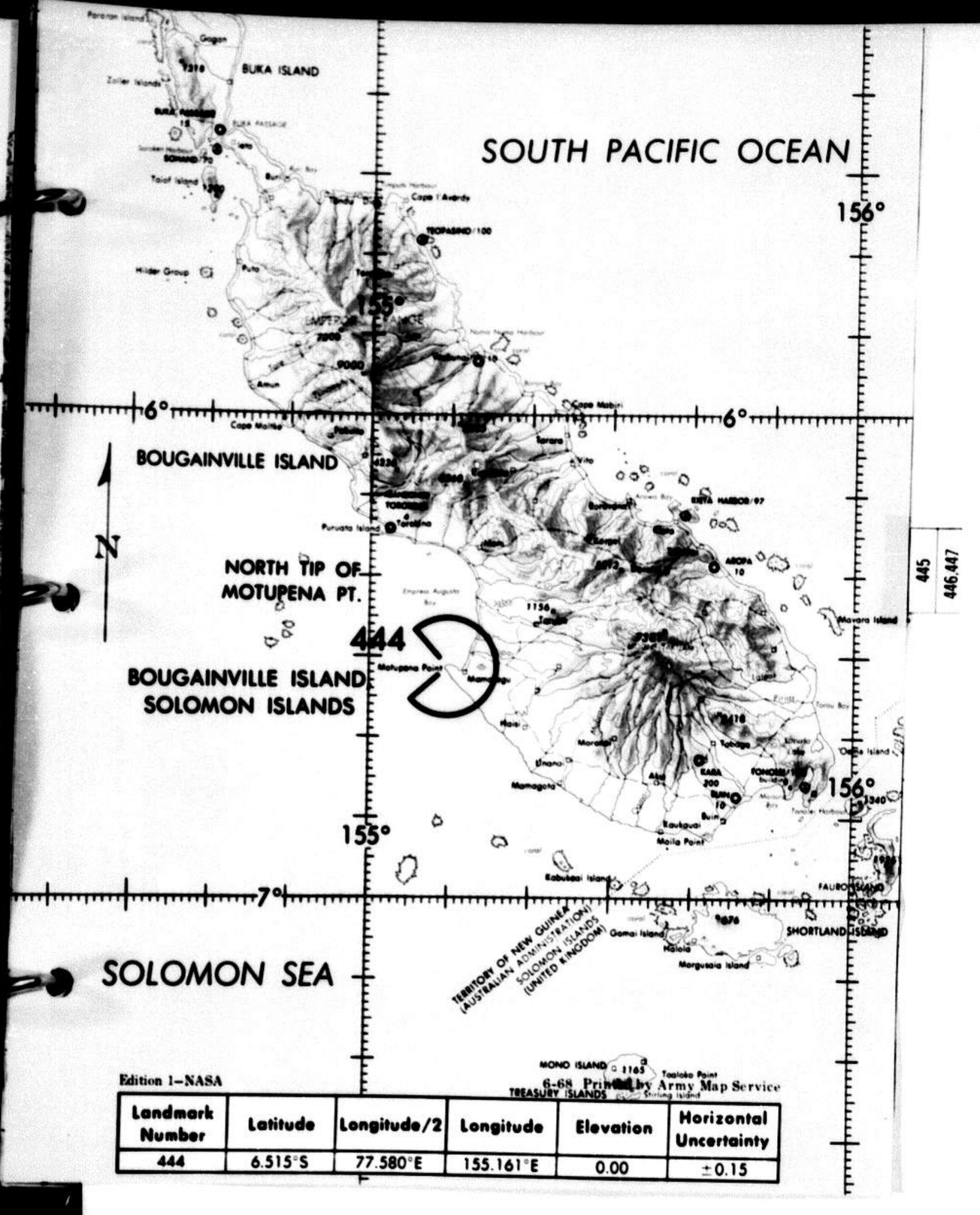
6-68 Printed by Army Map Service



443

444





Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
444	6.515°S	77.580°E	155.161°E	0.00	±0.15

NGGELA GROUP
9°
TULAGI
FLORIDA
FLORIDA ISLAND
INDISPENSABLE
STRAIT
IRON BOTTOM SOUND
HENDERSON
GUADALCANAL
Cape Esperance
Cape Austen
Cape Hunter
Viso Point
Kaliula Point
Lauvi Point
Poole Reef
Balo
Cape Henslow
North Island
Malaita
Mandoliana Island
Tanapari Cay
Tanatau Point
Lunga Point
Kali Point
Tavio Point
Kua Sura Islands
Talatina
Kera
Malaita
Malaupa
Bungana
Lagale
Siota
Korio
Bumala
Keko
Dumo
Taylloff
Hanara
Swiss
Wanderer Bay
Belbridge
Kuma
Kuma Bay
Kuma Channel
Lengo Channel
Nuugu
Sealark Channel
Sealark Reef
Kuromburu
Beere
Bere
Kaemburu
Kaemburu Bay
Tanaka
Tanaka Point
Tanaka Channel
Tanaka Reef
Tanaka Island
Tanaka Bay
Tanaka Passage
Tanaka Harbour
Hauhu
Kaunaa
Kaunaa Harbour
Kaunaa Bay
Kaunaa Passage
Kaunaa Reef
Kaunaa Island
Kaunaa Channel
Kaunaa Point
Kaunaa Village
Kaunaa Mission
Kaunaa Church
Kaunaa School
Kaunaa Hospital
Kaunaa Clinic
Kaunaa Dispensary
Kaunaa Pharmacy
Kaunaa Store
Kaunaa Market
Kaunaa Post Office
Kaunaa Bank
Kaunaa Hotel
Kaunaa Restaurant
Kaunaa Cafe
Kaunaa Bar
Kaunaa Club
Kaunaa Theatre
Kaunaa Cinema
Kaunaa Library
Kaunaa Museum
Kaunaa Gallery
Kaunaa Park
Kaunaa Garden
Kaunaa Zoo
Kaunaa Aquarium
Kaunaa Airport

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
448	20.915°S	83.507°E	167.014°E	0	±0.15
449	21.597°S	83.924°E	167.847°E	0	±0.15

Edition 1–NASA

6-68 Printed by Army Map Service

LIFOU ISLAND
LOYALTY ISLANDS

ÎLE OUVÉA

ÎLE LIFOU

448

SHORELINE
@ WEST EXTREME OF
LEFEVRE PT

SOUTH PACIFIC OCEAN

MARE ISLAND,
LOYALTY ISLANDS

ÎLE MARÉ

449

SHORELINE
@ WEST EXTREME OF
CAPE WABAO

NEW CALEDONIA

ÎLE DES PINS

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
501	17.976°S	61.087°E	122.174°E	0.00	±0.15

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INDIAN OCEAN

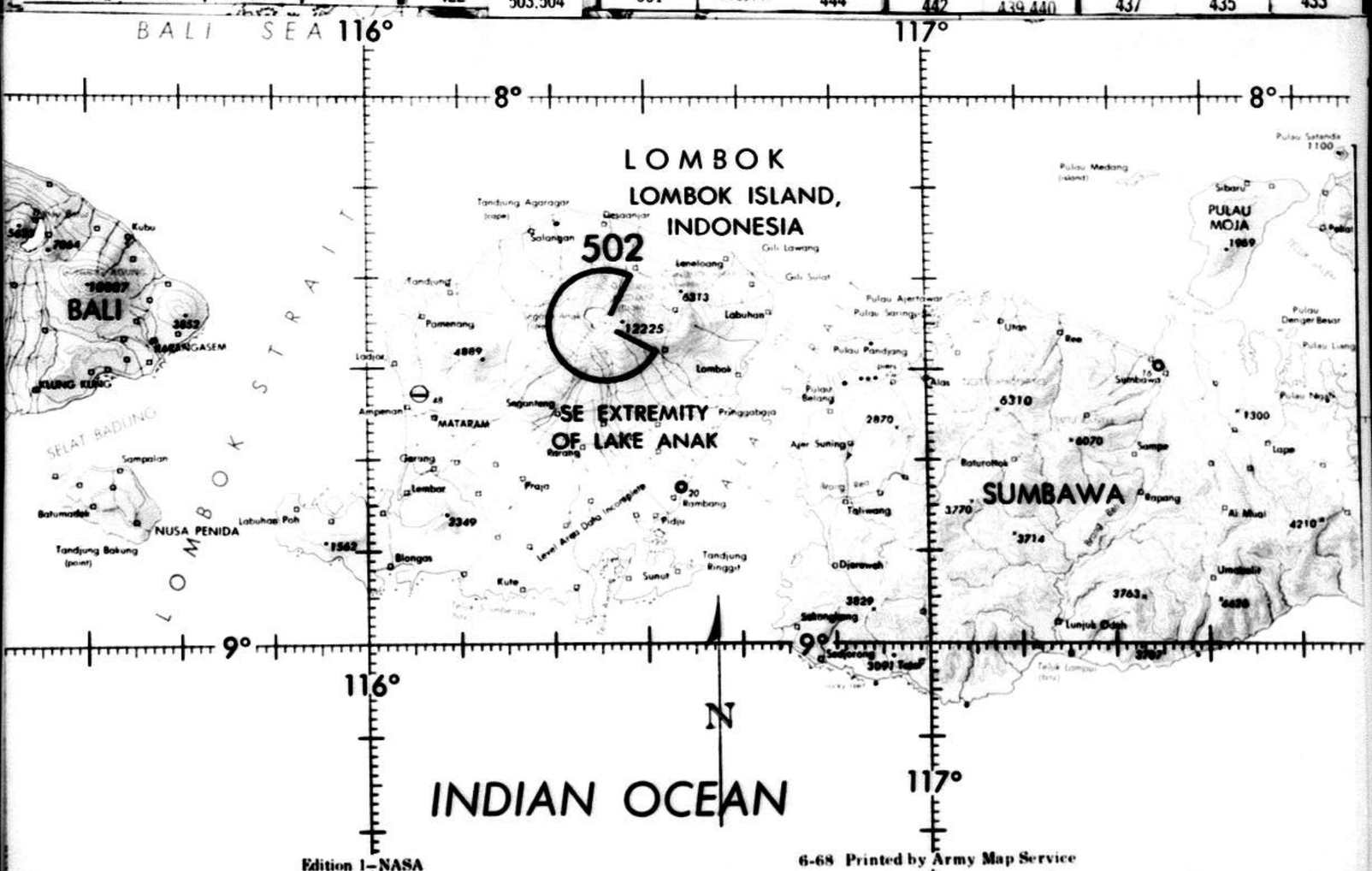
GANTHEAUME PT,
AUSTRALIA

501

NW TIP OF GANTHEAUME PT

RELIEF DATA INCOMPLETE

430	428	425	423	421	502	448,449	445	443	441	438	436	434	432
431	429	426,427	424	422	503,504	501	446,447	444	442	439,440	437	435	433



Edition 1—NASA

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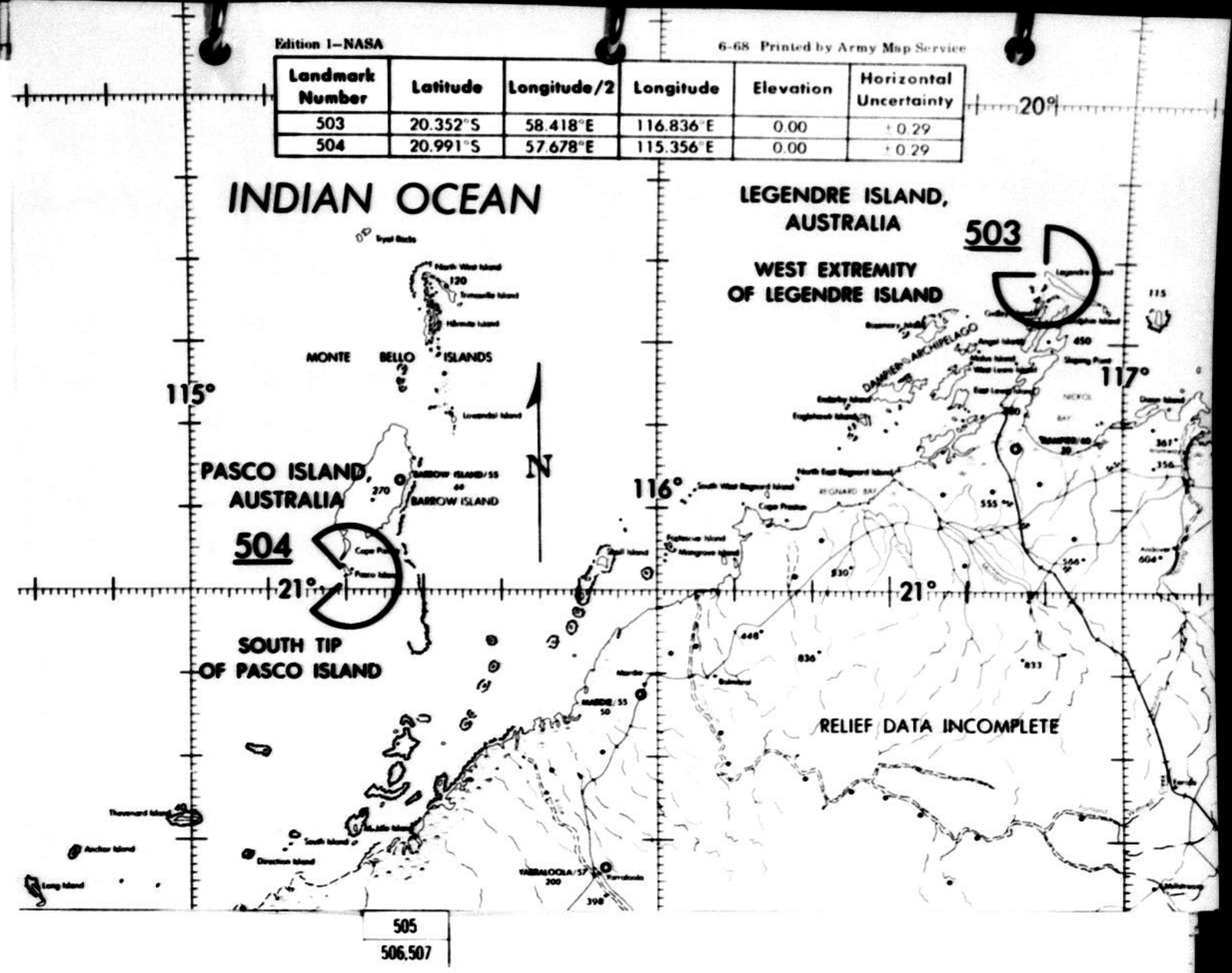
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
502	8.416°S	58.218°E	116.437°E	+1.08	±0.30



Edition 1—NASA

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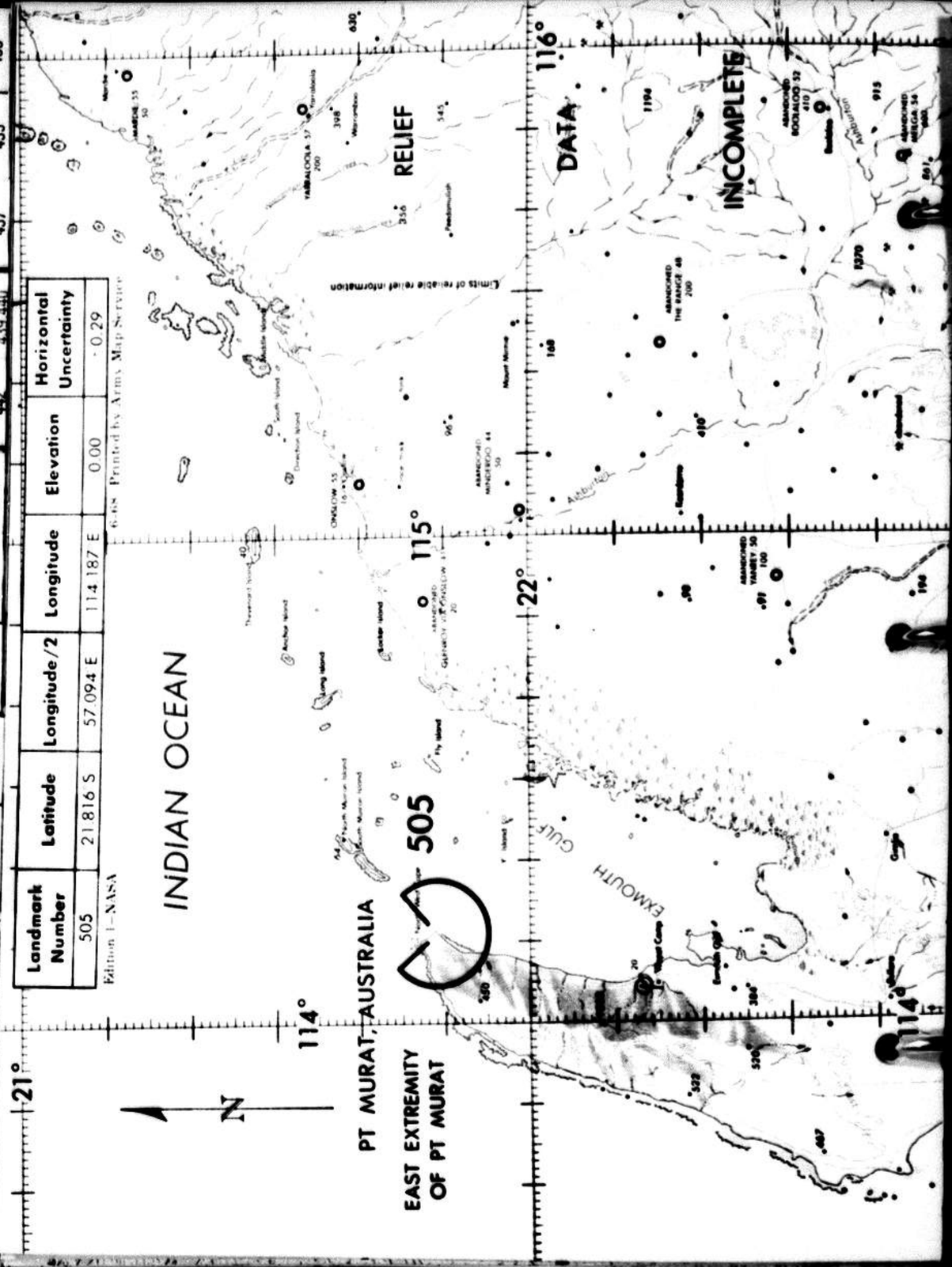
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
503	20.352°S	58.418°E	116.836°E	0.00	±0.29
504	20.991°S	57.678°E	115.356°E	0.00	±0.29

505
506,507

Edition 1–NASA

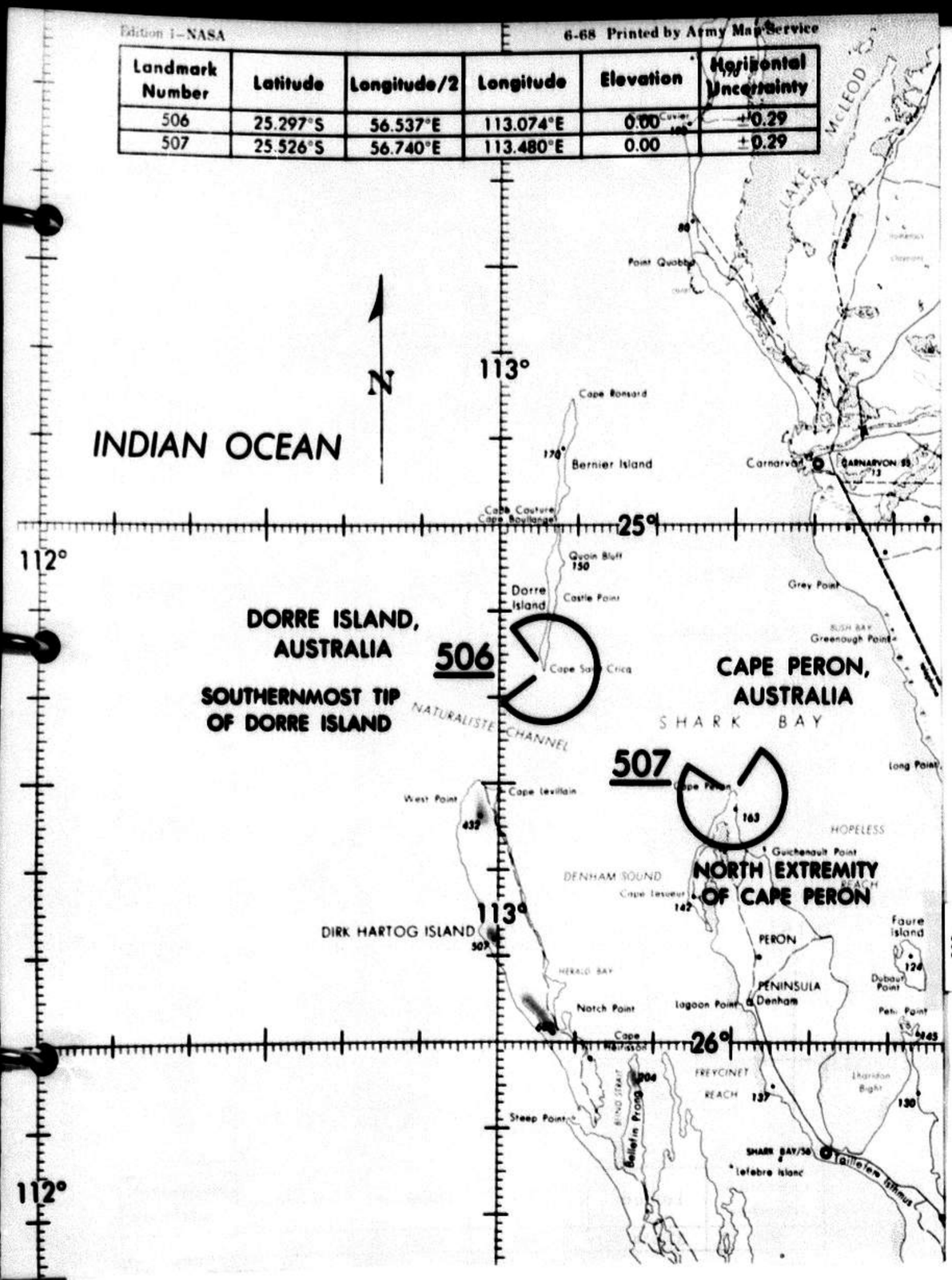
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
505	21.816°S	57.094°E	114.187°E	0.00	±0.29

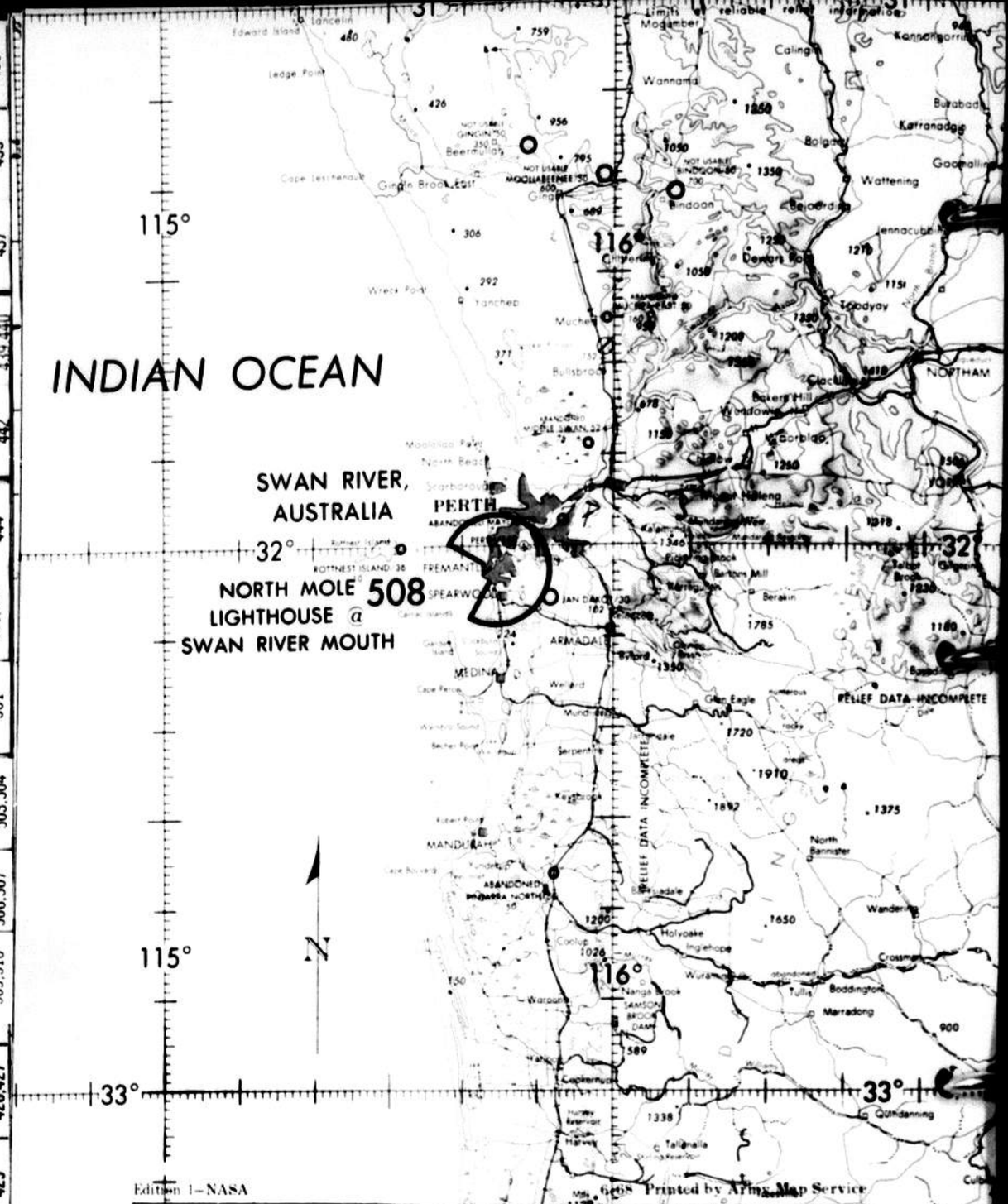


Edition 1–NASA

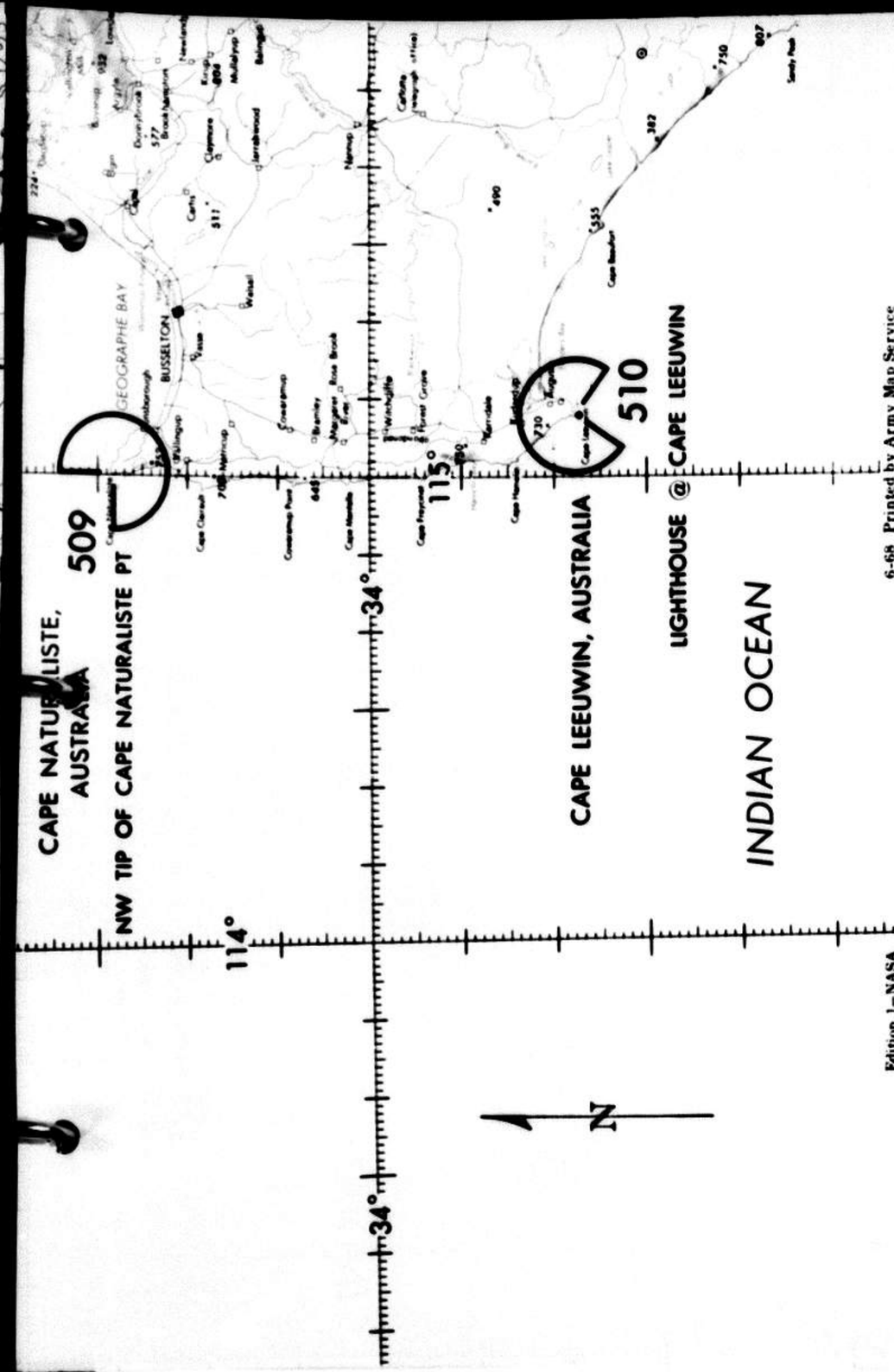
6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
506	25.297°S	56.537°E	113.074°E	0.00	±0.29
507	25.526°S	56.740°E	113.480°E	0.00	±0.29

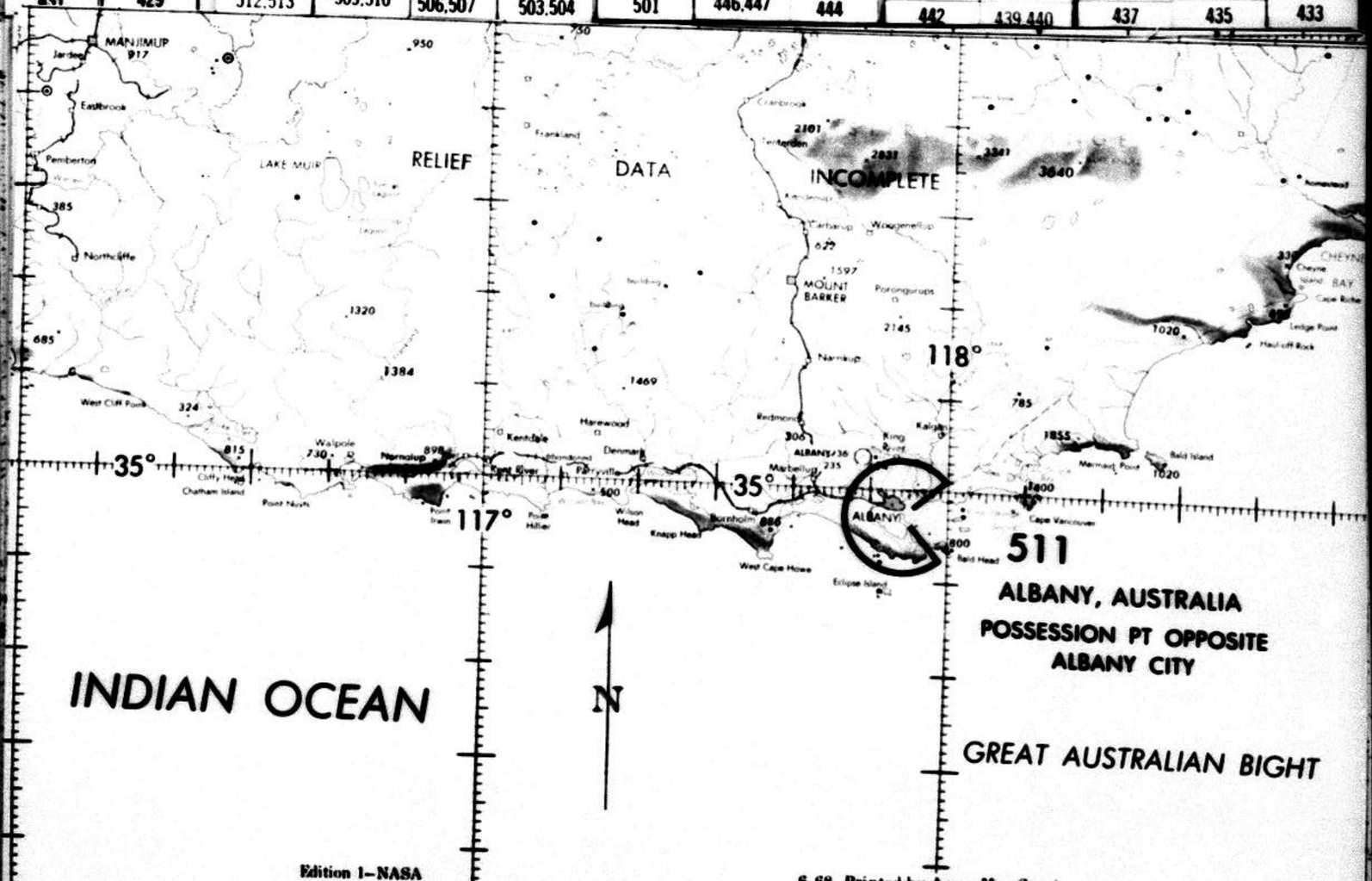




Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
508	32.054°S	57.860 E	115.721°E	+.01	±0.15



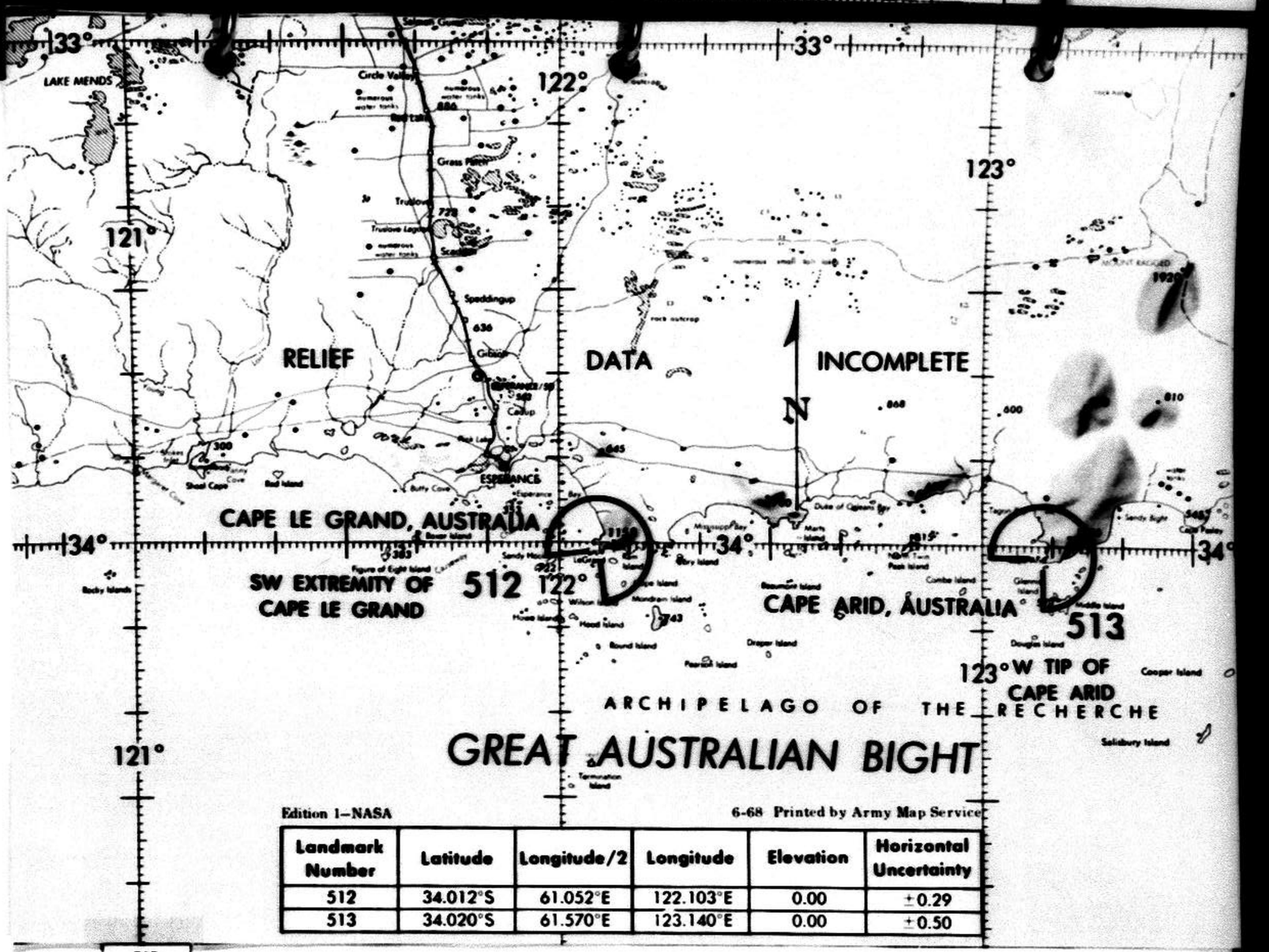
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
509	33.531°S	57.500°E	115.001°E	0.00	±0.15
510	34.372°S	57.566°E	115.133°E	+0.01	±0.29



Edition 1—NASA

6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
511	35.043°S	58.958°E	117.915°E	+.02	±0.15



Edition 1—NASA

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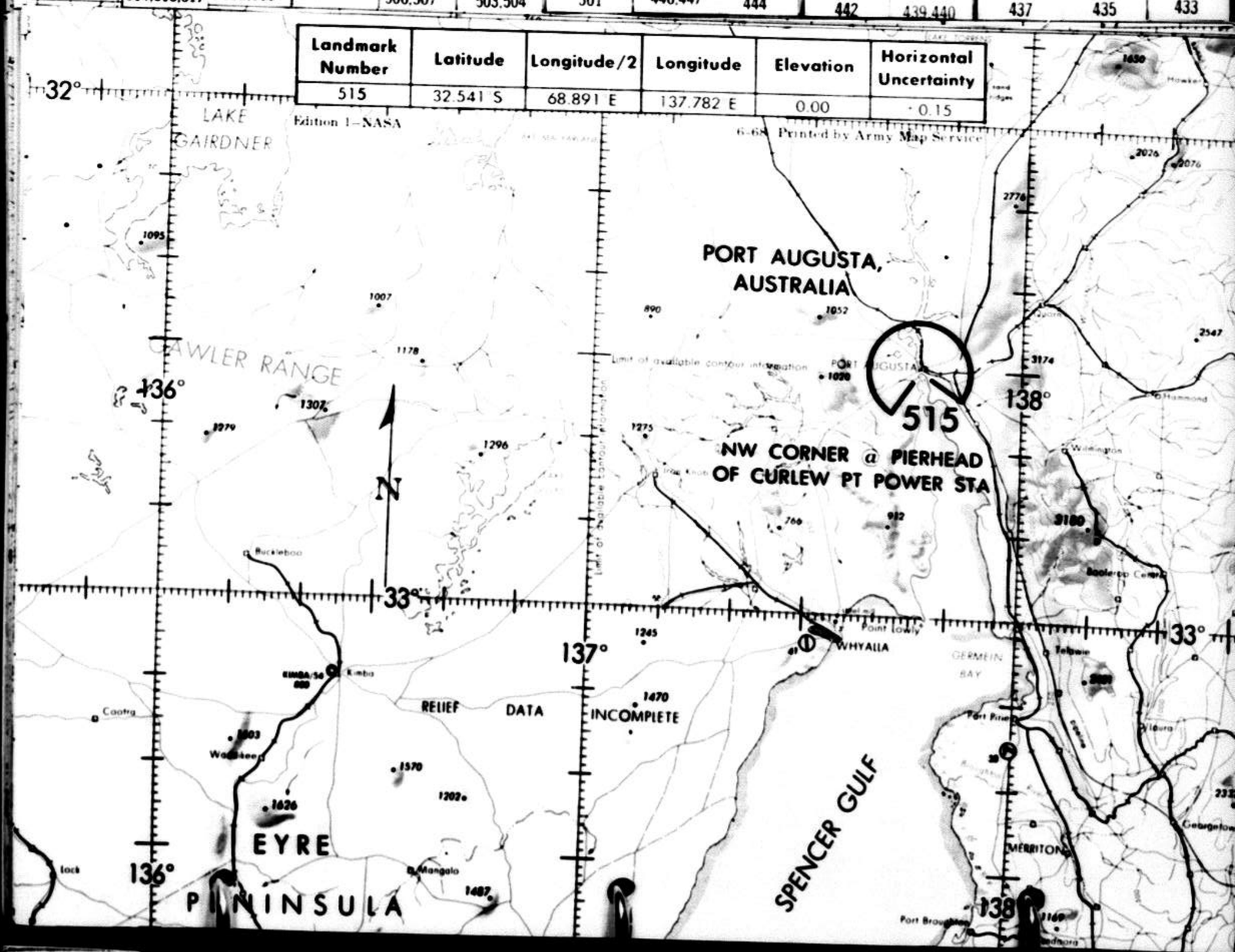
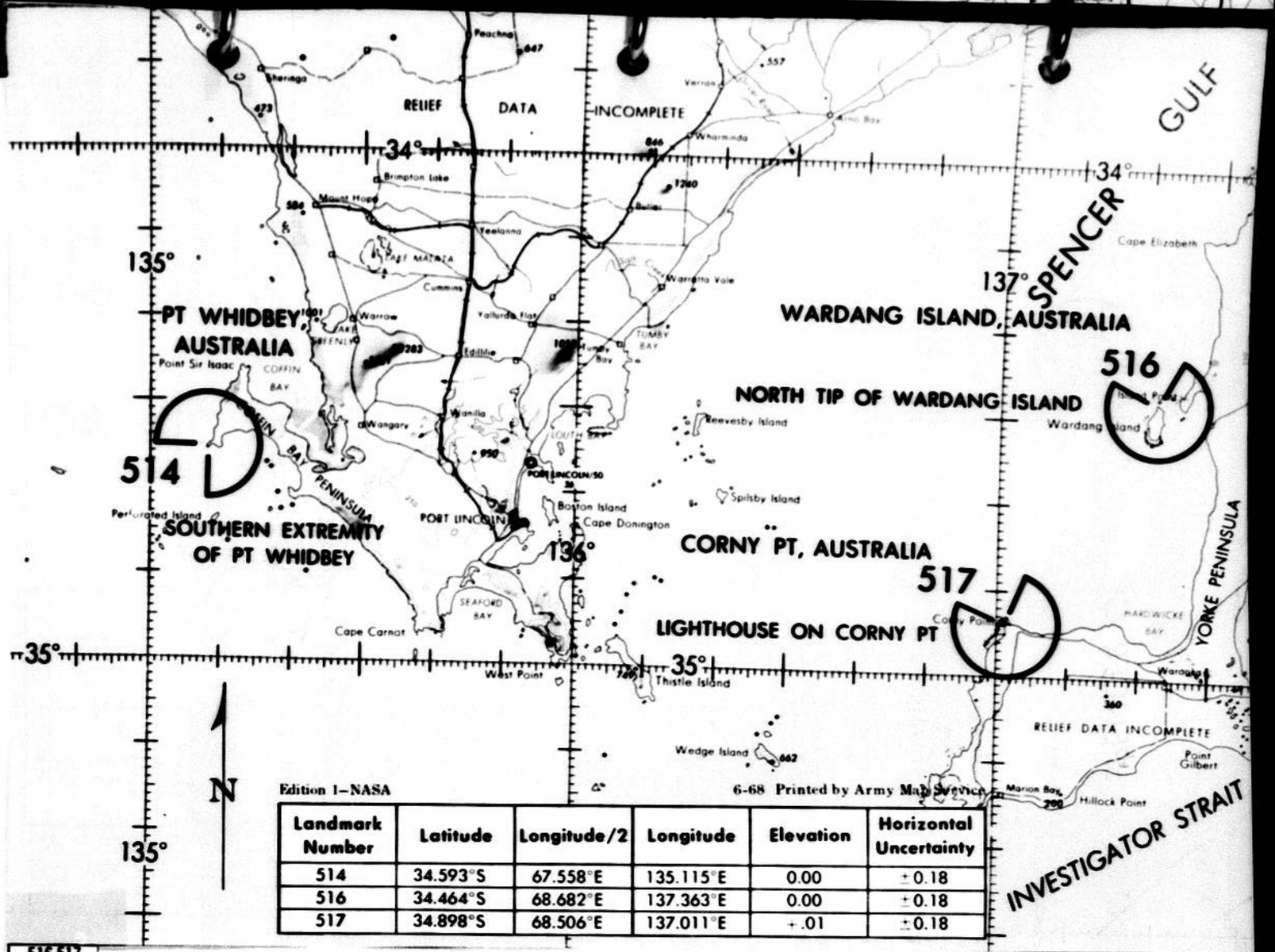
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
512	34.012°S	61.052°E	122.103°E	0.00	±0.29
513	34.020°S	61.570°E	123.140°E	0.00	±0.50

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
515	32.541°S	68.891°E	137.782°E	0.00	±0.15

Edition 1–NASA

6-68 Printed by Army Map Service

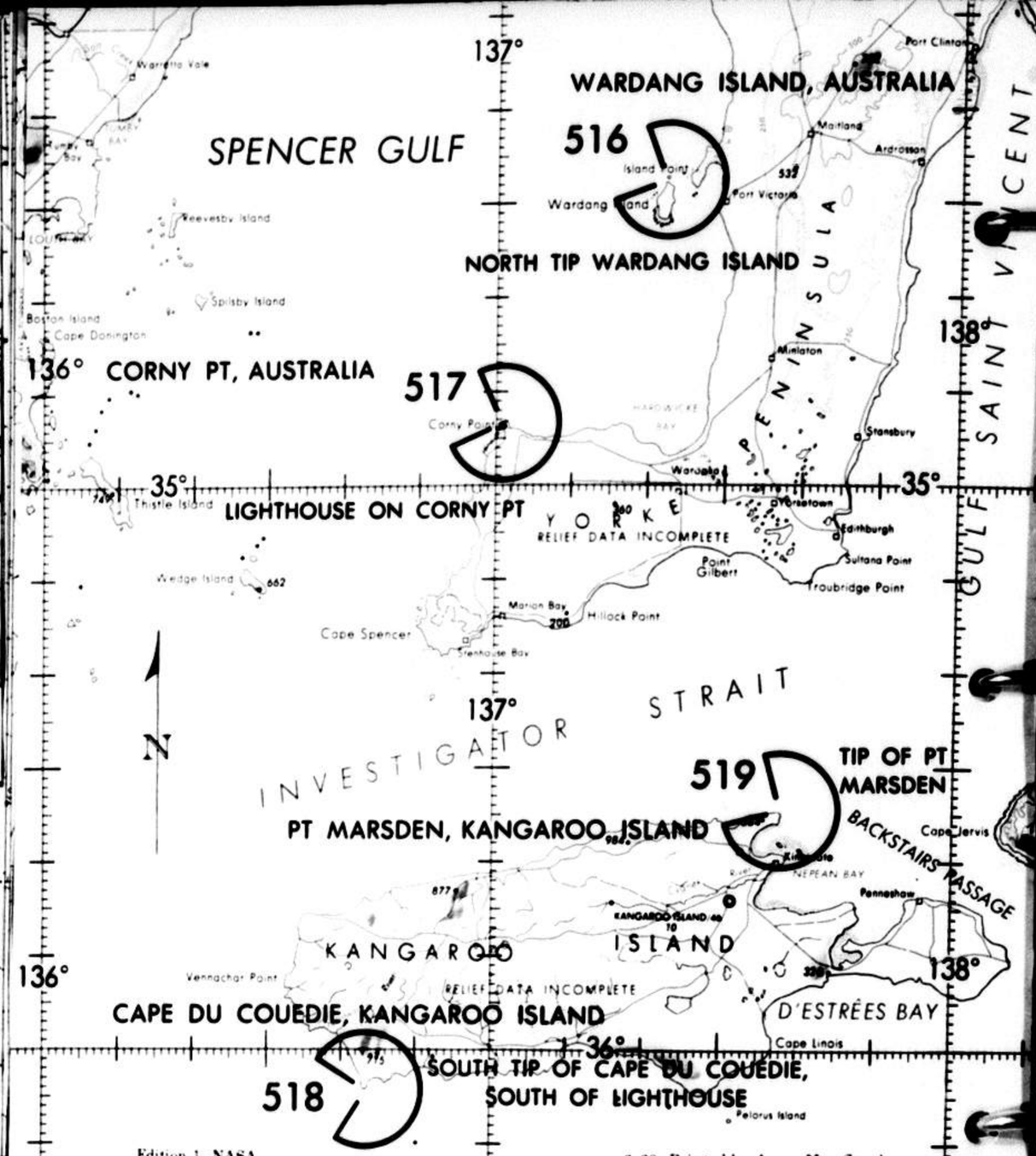


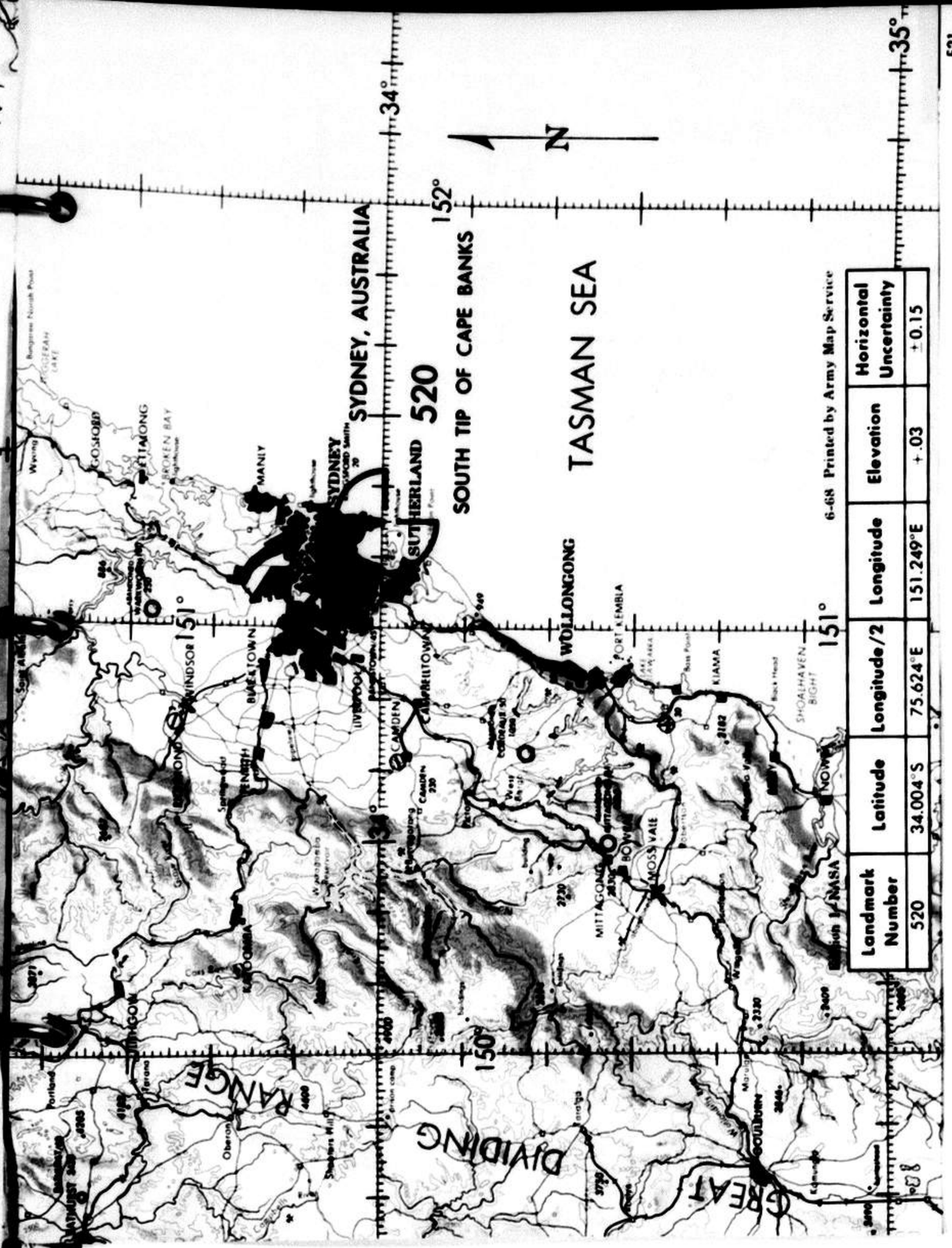


Edition 1–NASA

6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
514	34.593°S	67.558°E	135.115°E	0.00	±0.18
516	34.464°S	68.682°E	137.363°E	0.00	±0.18
517	34.898°S	68.506°E	137.011°E	+.01	±0.18





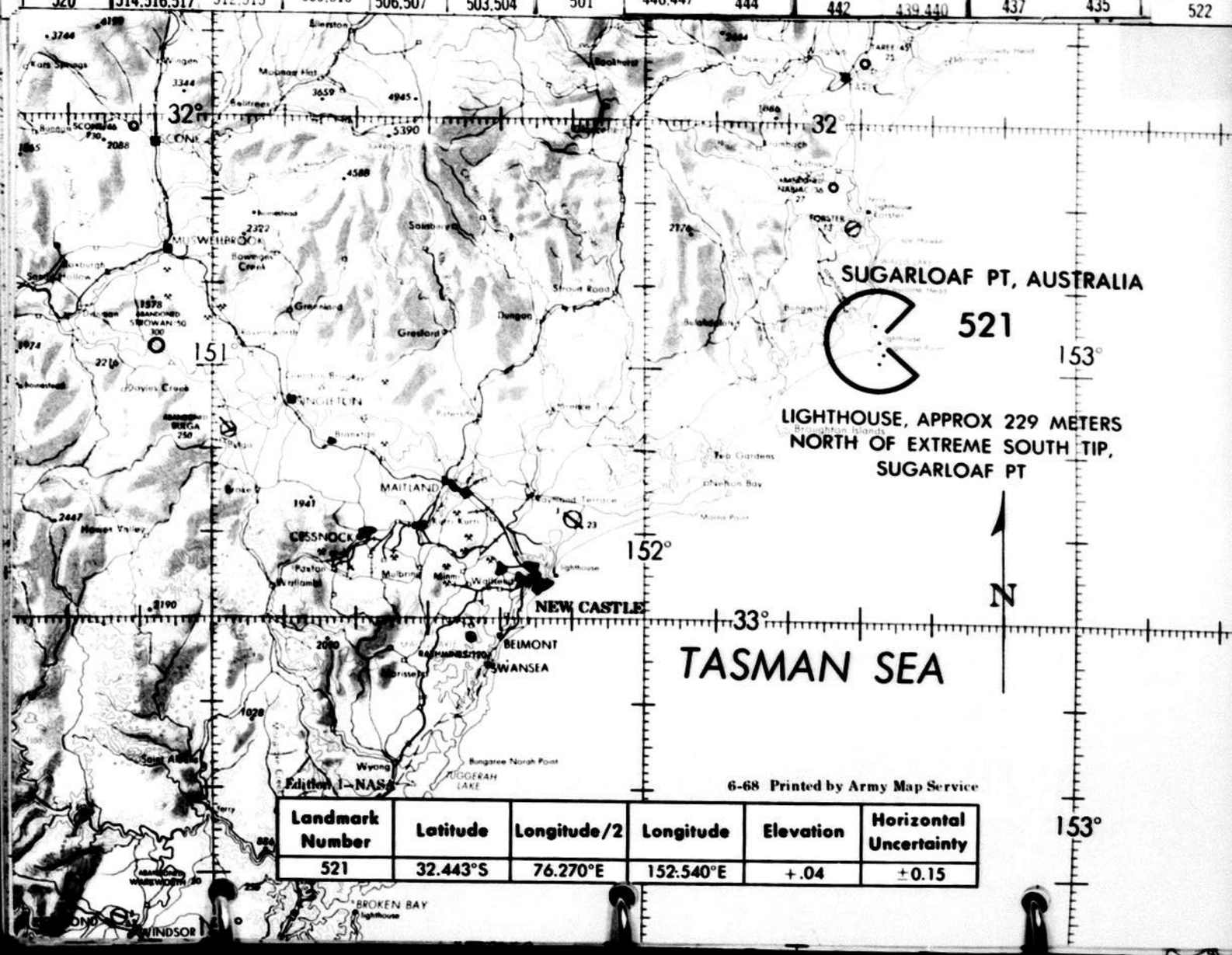
Edition 1–NASA

6-68 Printed by Army Map Service

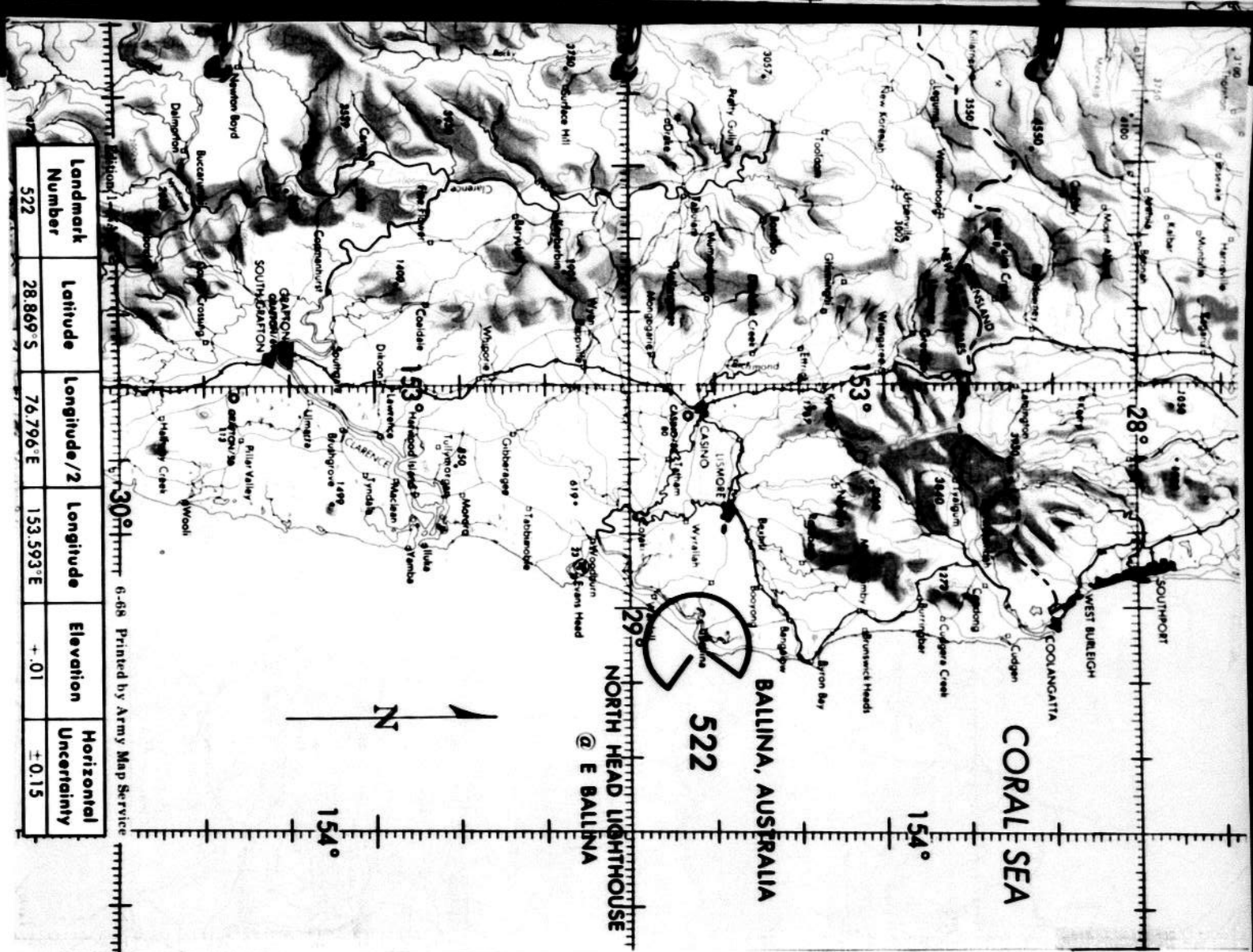
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
516	34.464°S	68.682°E	137.363°E	0.00	±0.18
517	34.898°S	68.506°E	137.011°E	+.01	±0.18
518	36.068°S	68.344°E	136.689°E	+.04	±0.29
519	35.573°S	68.816°E	137.631°E	+.02	±0.51

6-68 Printed by Army Map Service

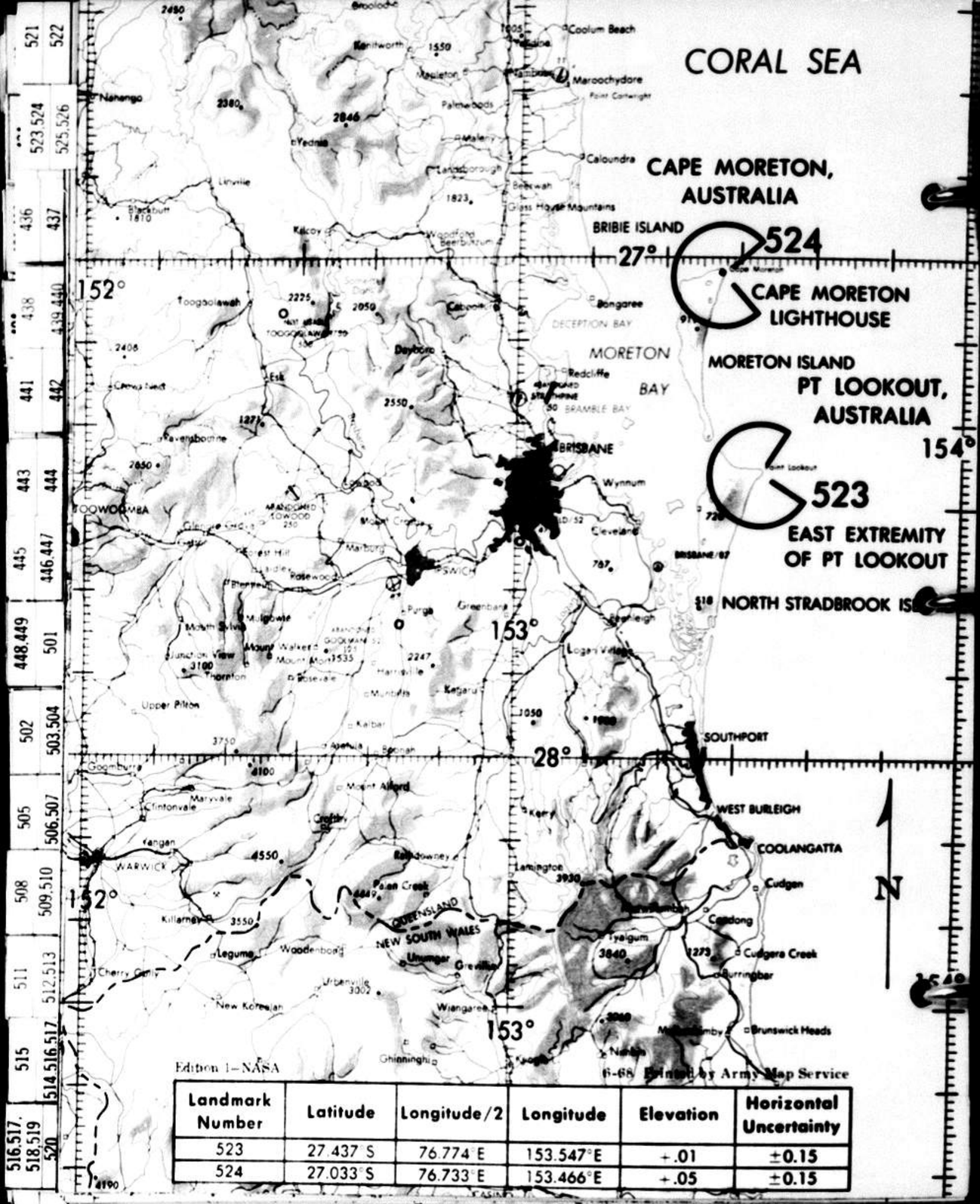
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
520	34.004°S	75.624°E	151.249°E	+.03	±0.15



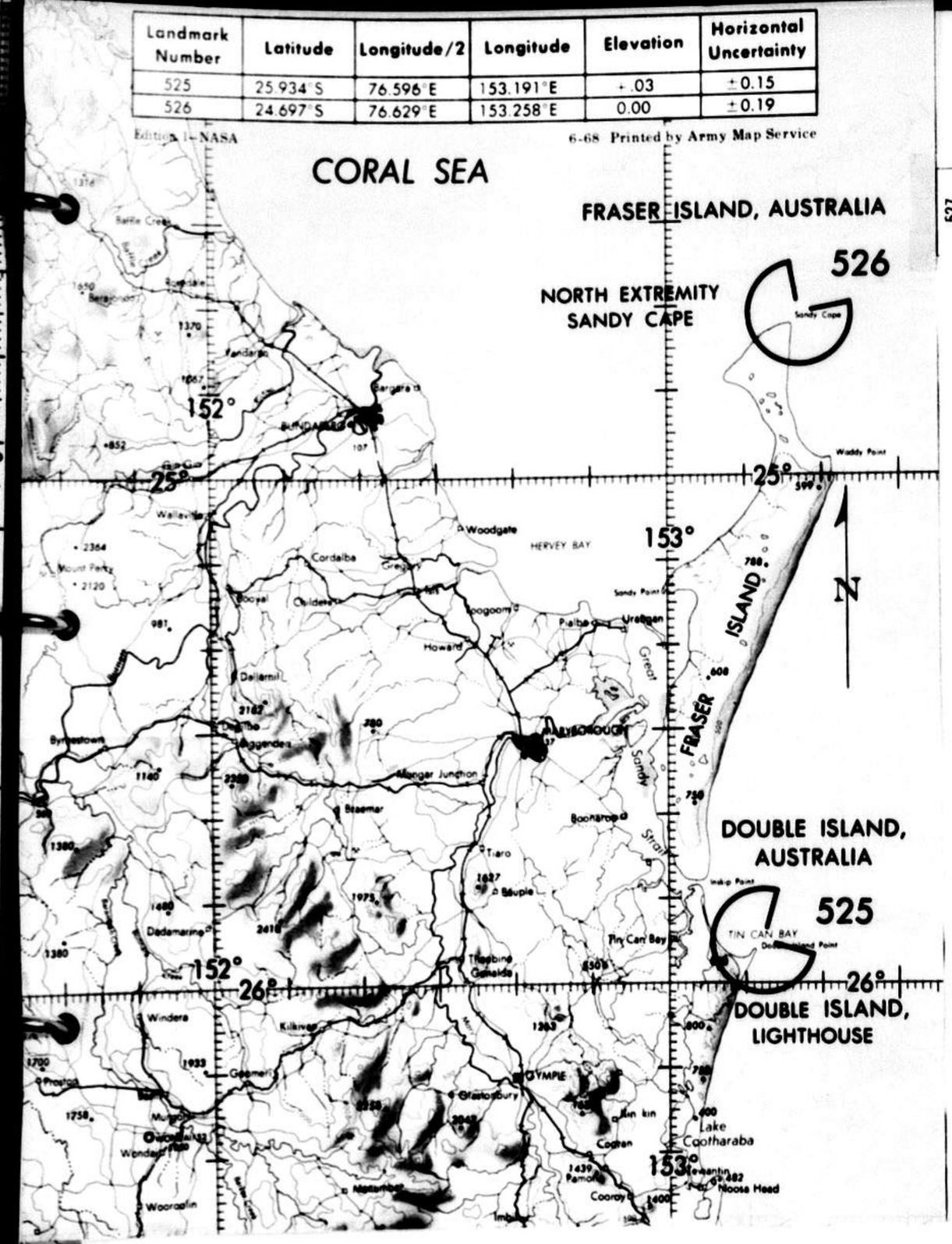
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
521	32.443°S	76.270°E	152.540°E	+.04	±0.15



Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
522	28.869°S	76.796°E	153.593°E	+.01	±0.15

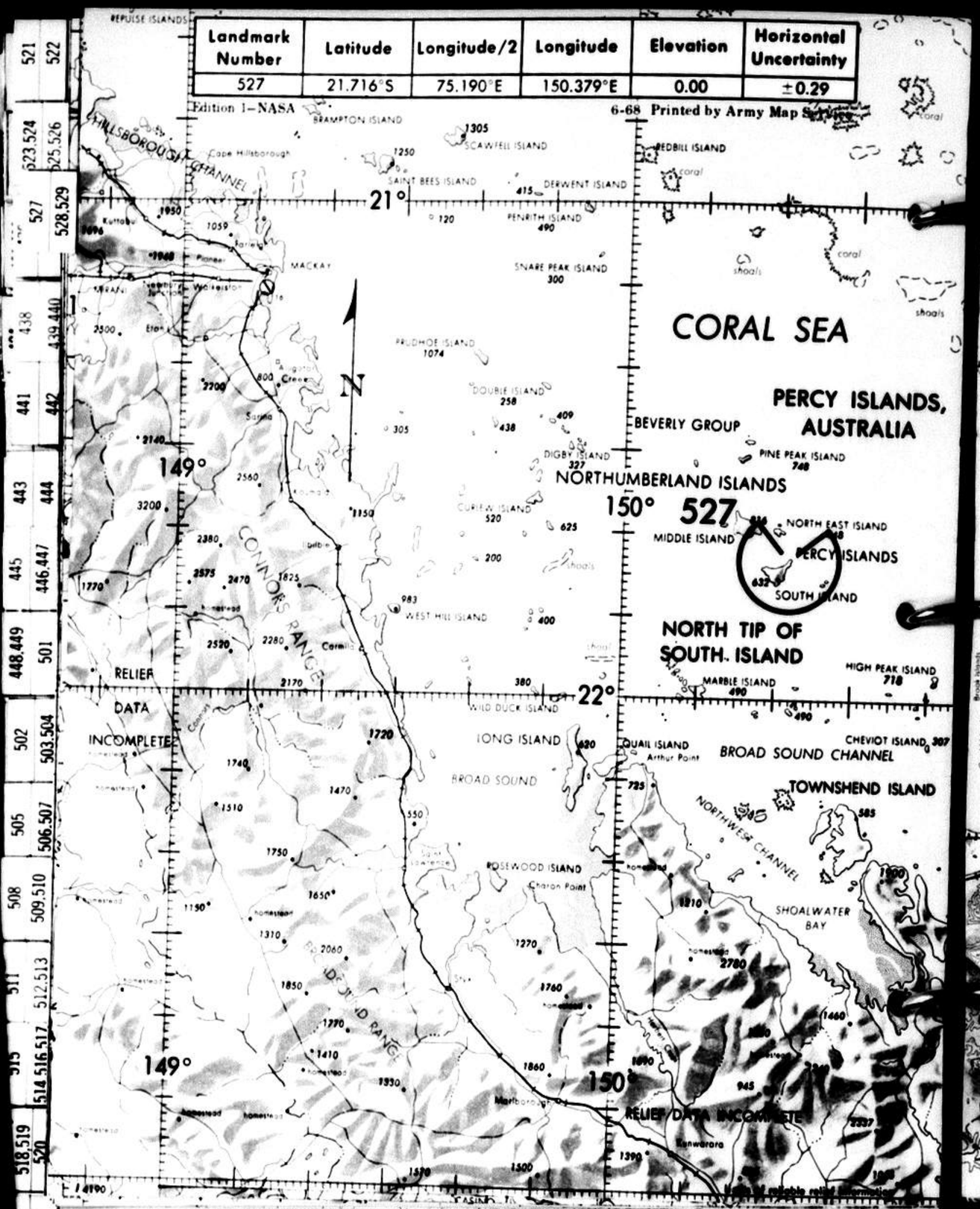


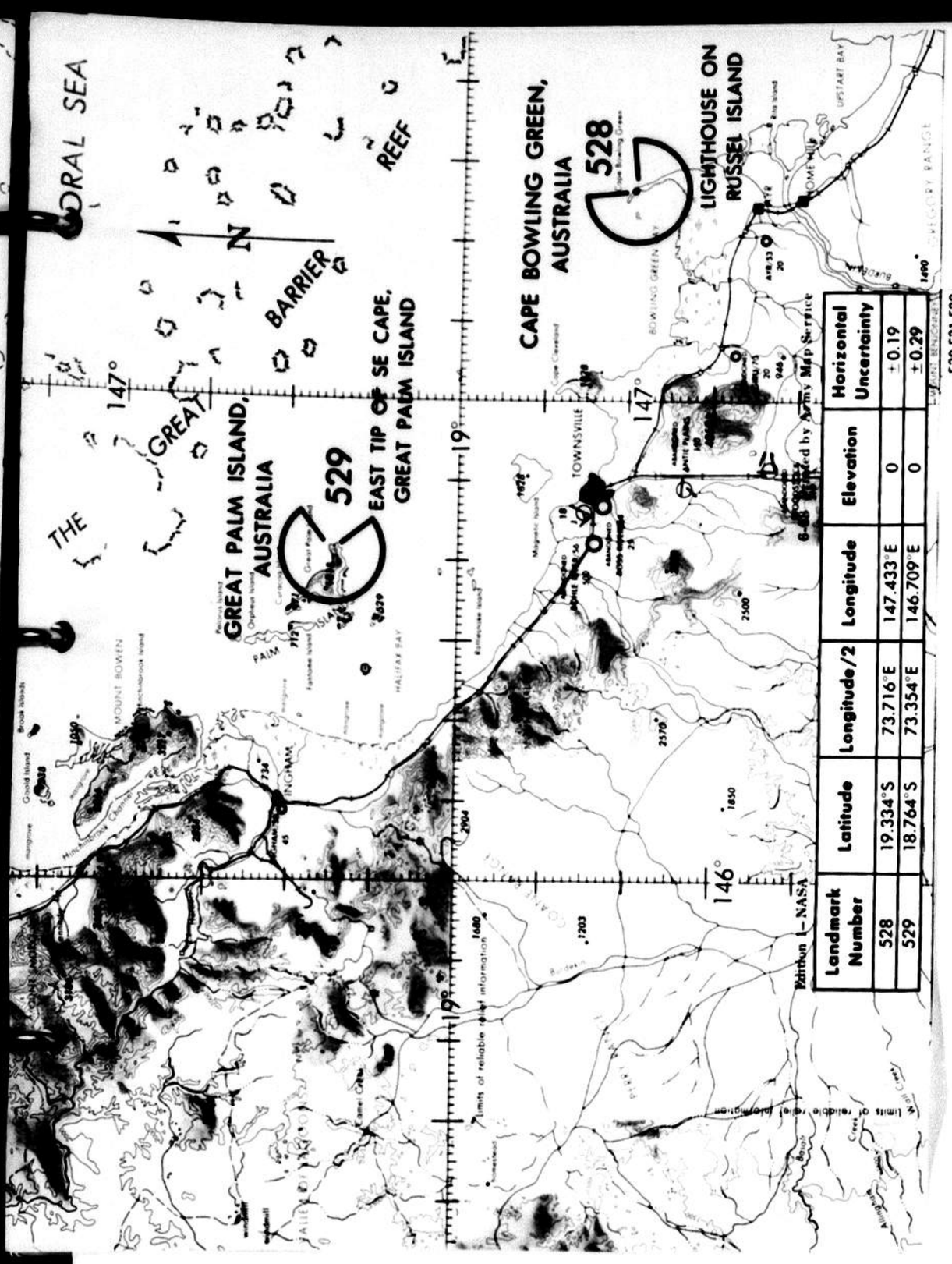
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
523	27.437°S	76.774°E	153.547°E	+.01	±0.15
524	27.033°S	76.733°E	153.466°E	+.05	±0.15



Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
525	25.934°S	76.596°E	153.191°E	+.03	±0.15
526	24.697°S	76.629°E	153.258°E	0.00	±0.19

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
527	21.716°S	75.190°E	150.379°E	0.00	±0.29





Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
528	19.334°S	73.716°E	147.433°E	0	±0.19
529	18.764°S	73.354°E	146.709°E	0	±0.29

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530,531,532

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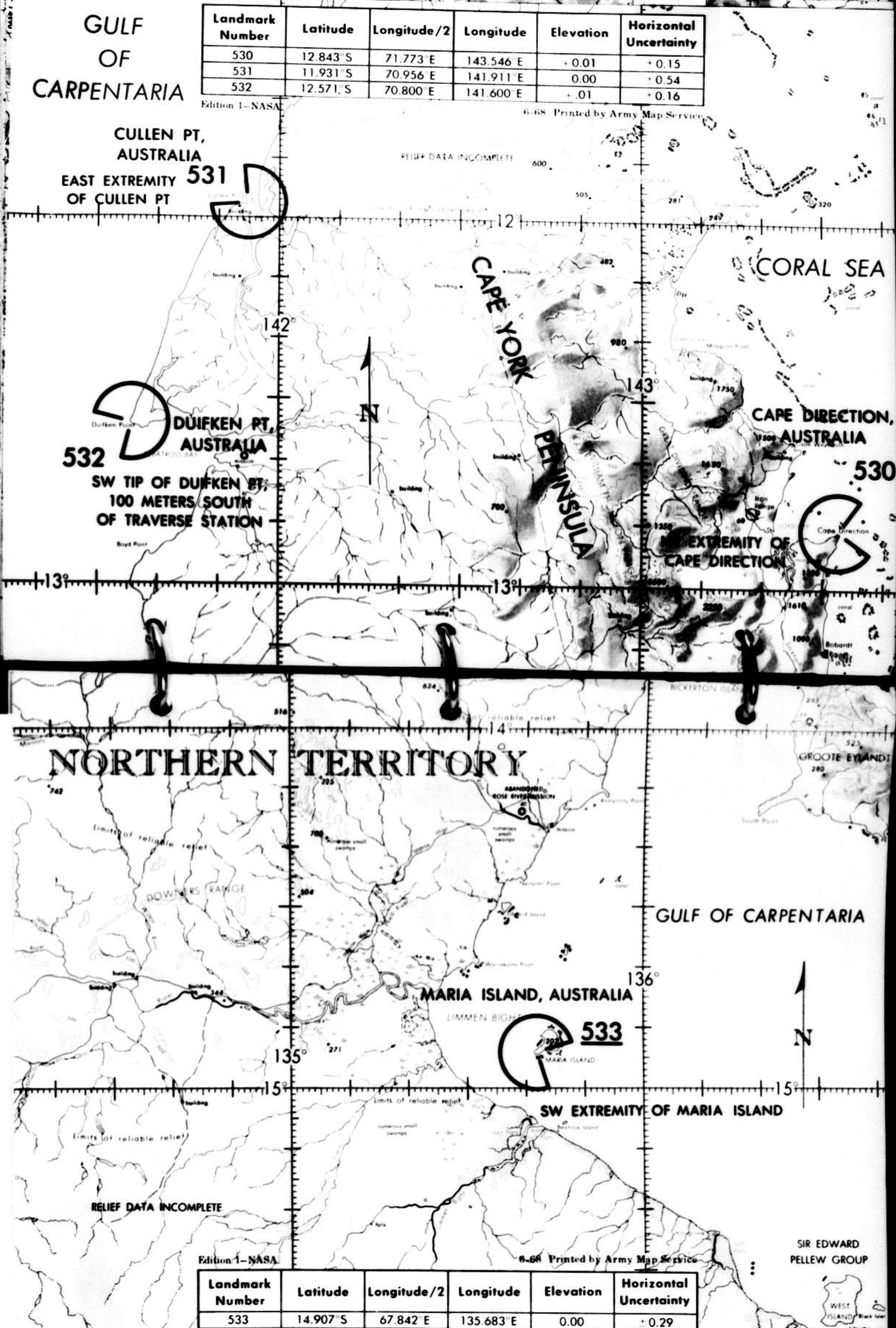
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
530	12.843°S	71.773°E	143.546°E	+0.01	+0.15
531	11.931°S	70.956°E	141.911°E	0.00	+0.54
532	12.571°S	70.800°E	141.600°E	+.01	+0.16



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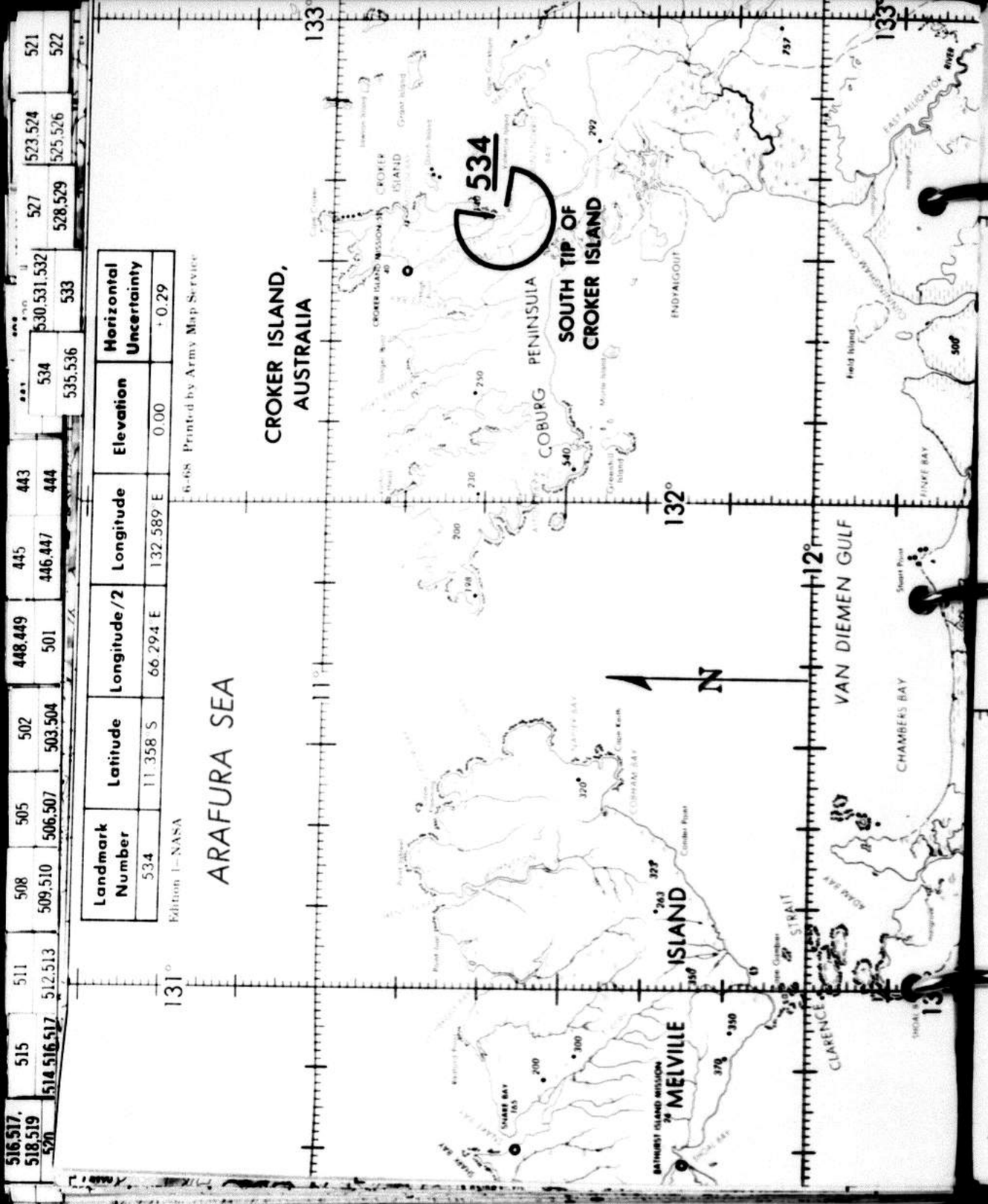
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
533	14.907°S	67.842°E	135.683°E	0.00	+0.29



Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
534	11.358°S	66.294°E	132.589°E	0.00	±0.29

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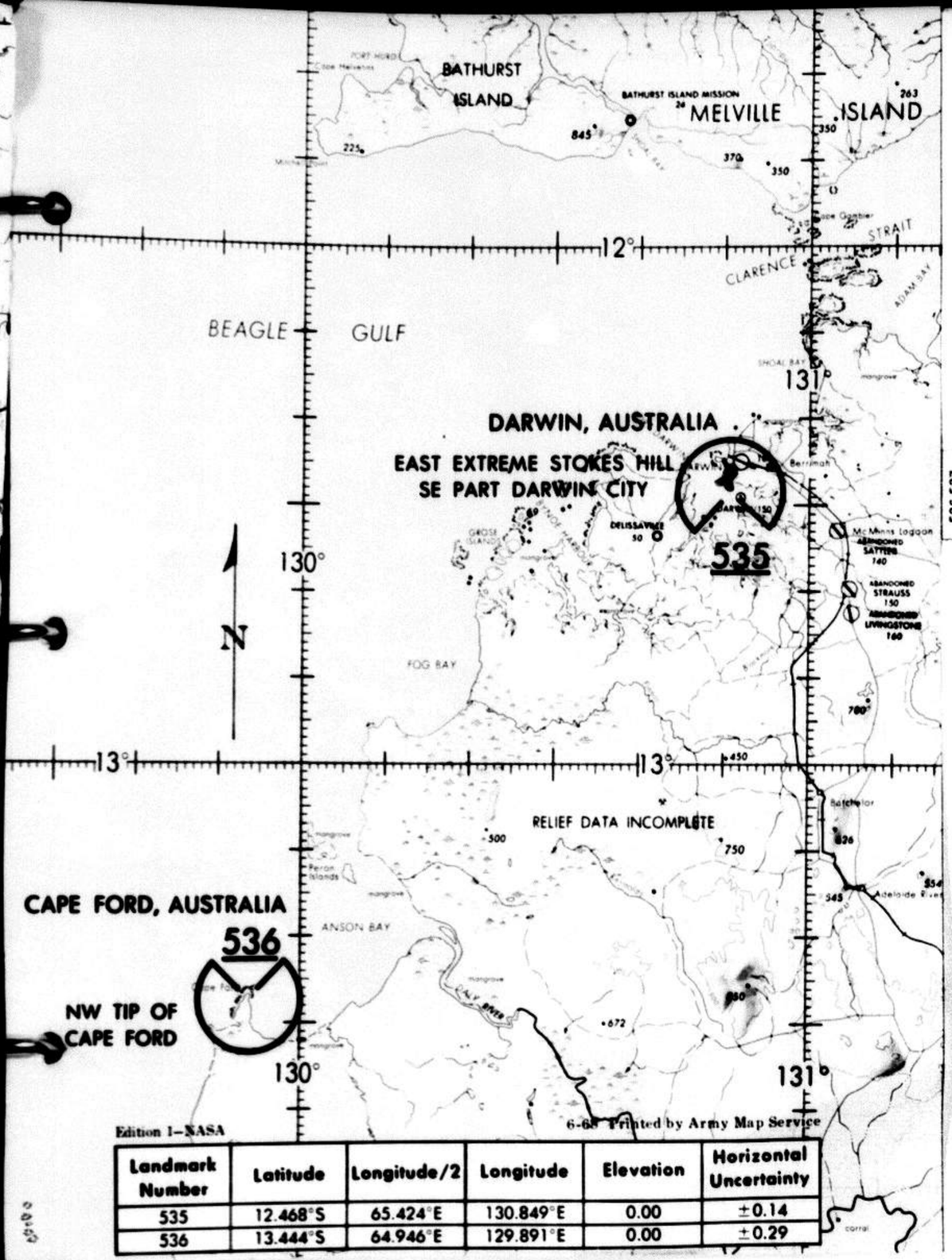

Edition 1—NASA

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Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
535	12.468°S	65.424°E	130.849°E	0.00	±0.14
536	13.444°S	64.946°E	129.891°E	0.00	±0.29

PHOTOGRAPHIC INSTRUCTIONS FOR CREW

MODE	LENS	WINDOW	FILM	FILTER	HOLDER	
1	80	RT RNDV	C-121	2A	BRKT	
2	80	RT RNDV	C-121	2A	BRKT	
	80	LFT RNDV	B&W	R&B	HAND	NEAR SIMULTANEOUS
3	80	CHOICE	HS	POL	HAND	2 POSITIONS, 60° ROTATION 1 EXPOSURE PER POSITION
4	80	LFT RNDV	B&W	NONE	HAND	
	80	RT RNDV	C	NONE	BRKT	
5	80	RT RNDV	B&W	NONE	BRKT	
6	80	LFT RNDV	B&W	NONE	HAND	
	80	RT RNDV	C-121	2A	BRKT	ALTERNATE STEREO B&W/CE
7	80	CHOICE	C or B&W	POL	HAND	2 POSITIONS, 60° APART, 1 PER EXPOSURE

UNITED STATES
1. Colorado River Mouth
2. Salton Sea
3. Twin Buttes, Arizona
4. Wilcox Dry Lake
5. Deming, New Mex.-El Paso,Tex.
6. Houston-Galveston Area
7. Dallas-Ft. Worth
8. Weslaco, Texas
9. Corpus Christi, Texas
10. Presidio, Texas
11. Mississippi Delta
12. Cape Kennedy

MEXICO
13. Valley of Toluca
14. Veracruz
15. Mexicali
16. Chapingo
17. Bajo Rio Barvo(Matamoras)
18. Yucatan Coast

ATLANTIC OCEAN
19. Tongue of the Ocean
20. Barbados
21. Bermuda
22. Puerto Rico
23. Extensive Test Area

AFRICA
24. Ethiopia
25. Somali Republic
26. Kenya
27. Tansania
28. Uganda
29. Mauritania
30. Mali
31. Ghana, Togo, Dahomey
32. Congo Republic
33. Congo Republic
34. Blantyre, Maland
35. Mozambique
36. Malagasay Republic

PACIFIC OCEAN
37. Hawaiian Islands
38. New Guinea
39. Australia
40. Lake Eyre(Colwell)

BRAZIL
41. Cabo Frio
42. Iron Quad
43. Rio de Janeiro
44. Campinas