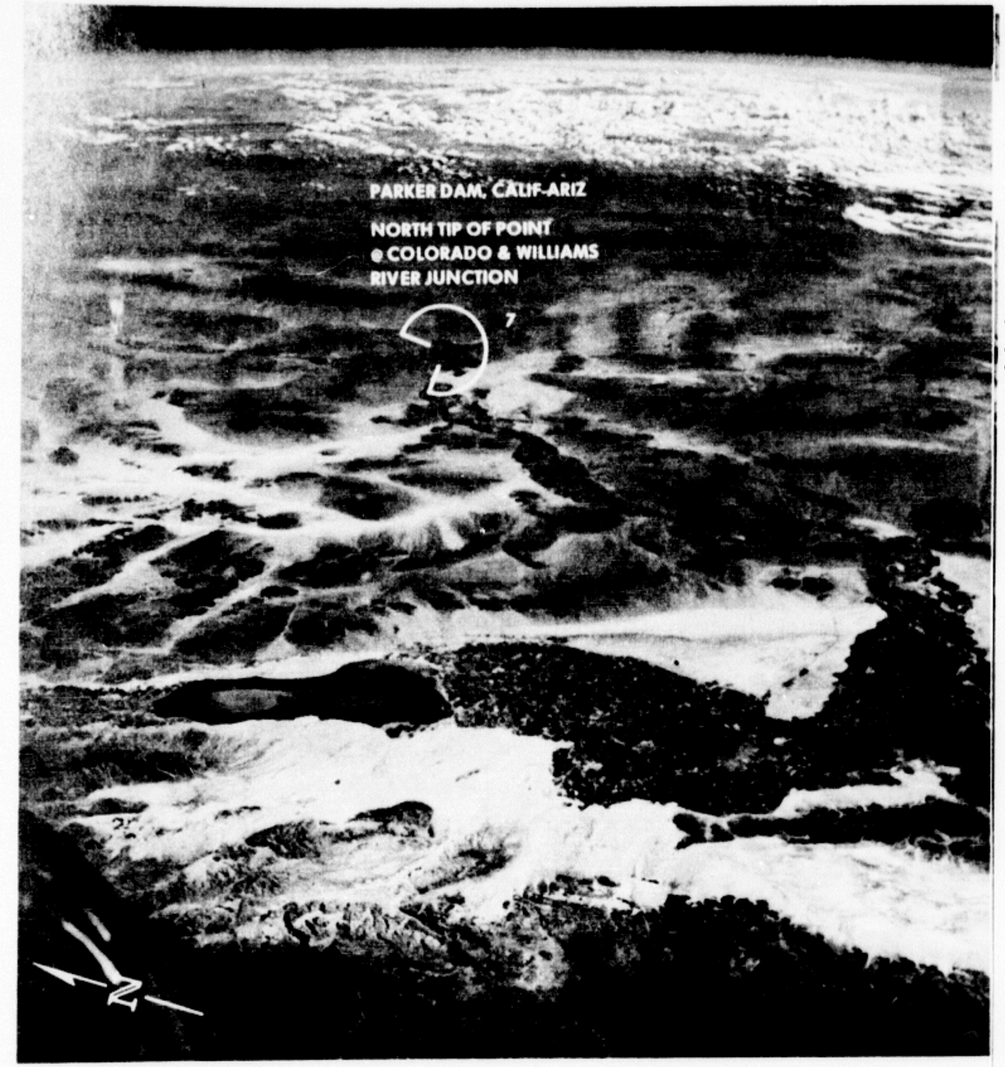
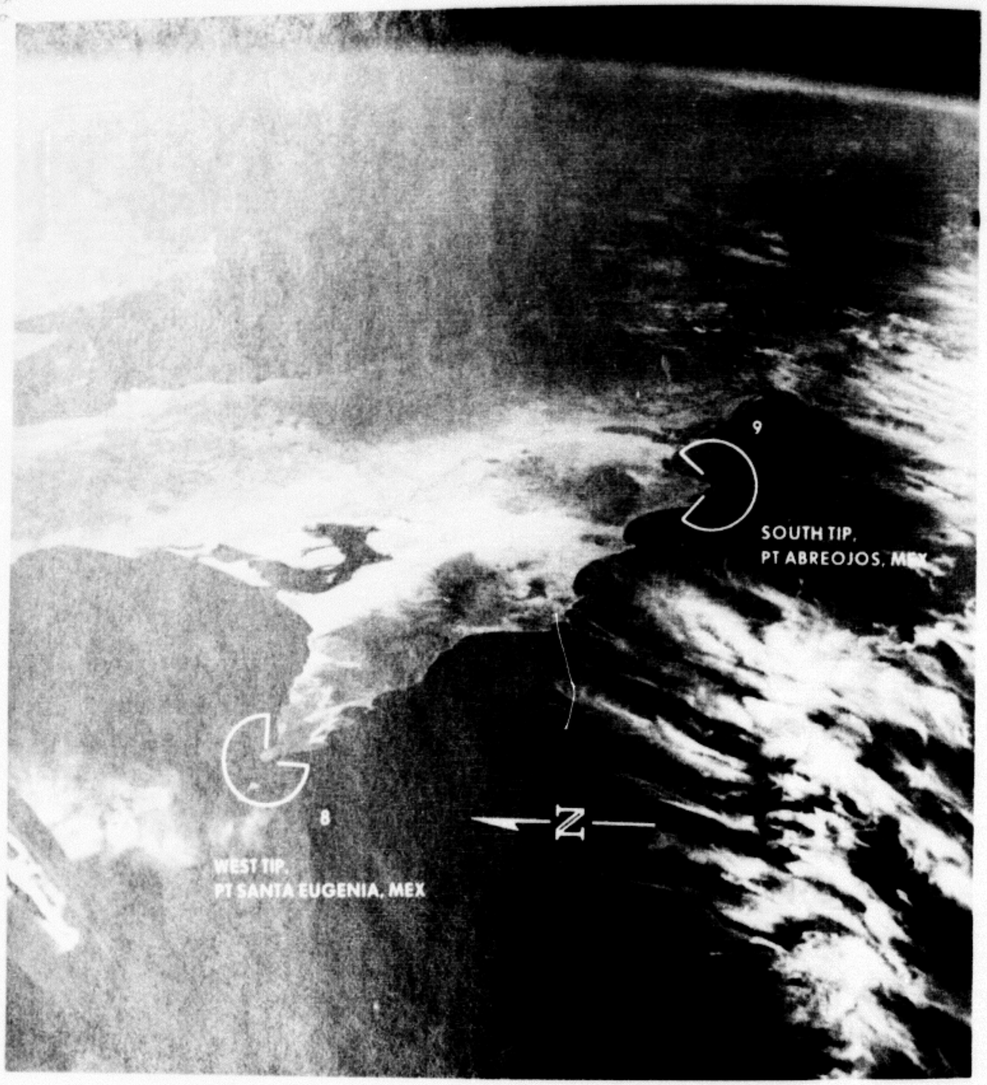
APOLLO 8	
LANDMARK MAPS & PHOTOS	
PART NO.	S/N
SKB 32100026-301	1004

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.
5	33.479° N	59.303° W	118.606° W	-.01	±0.01
6	32.665° N	58.621° W	117.242° W	0	±0.00



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

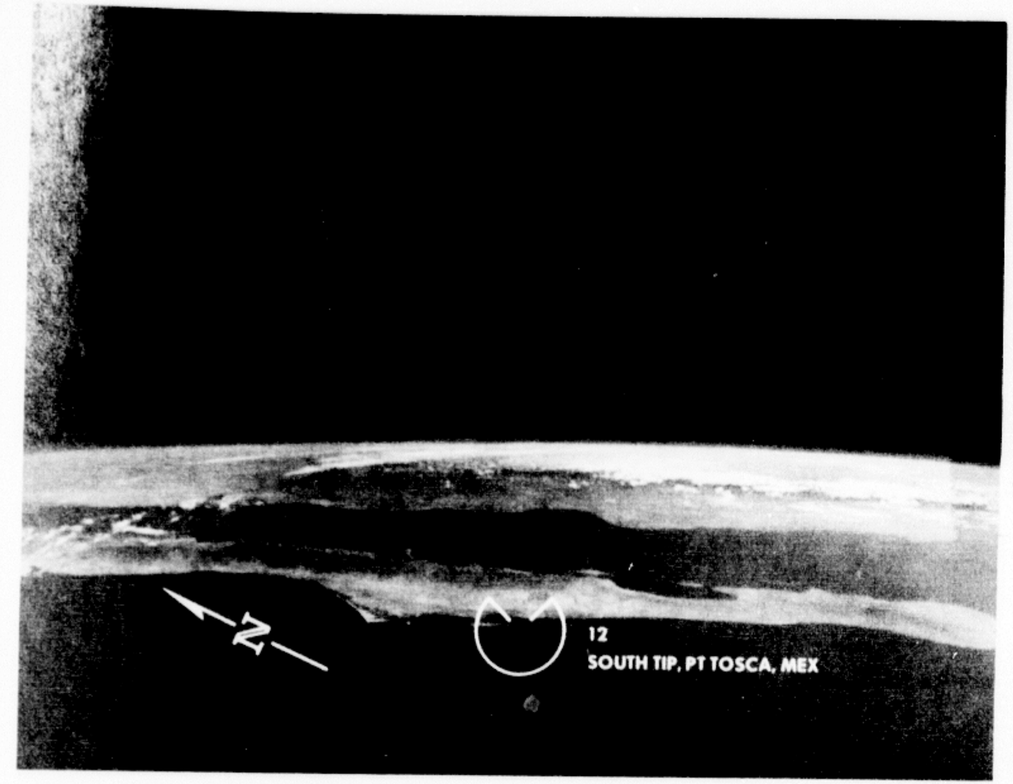
8.9
8.10
8.9.10.11.12.13
12



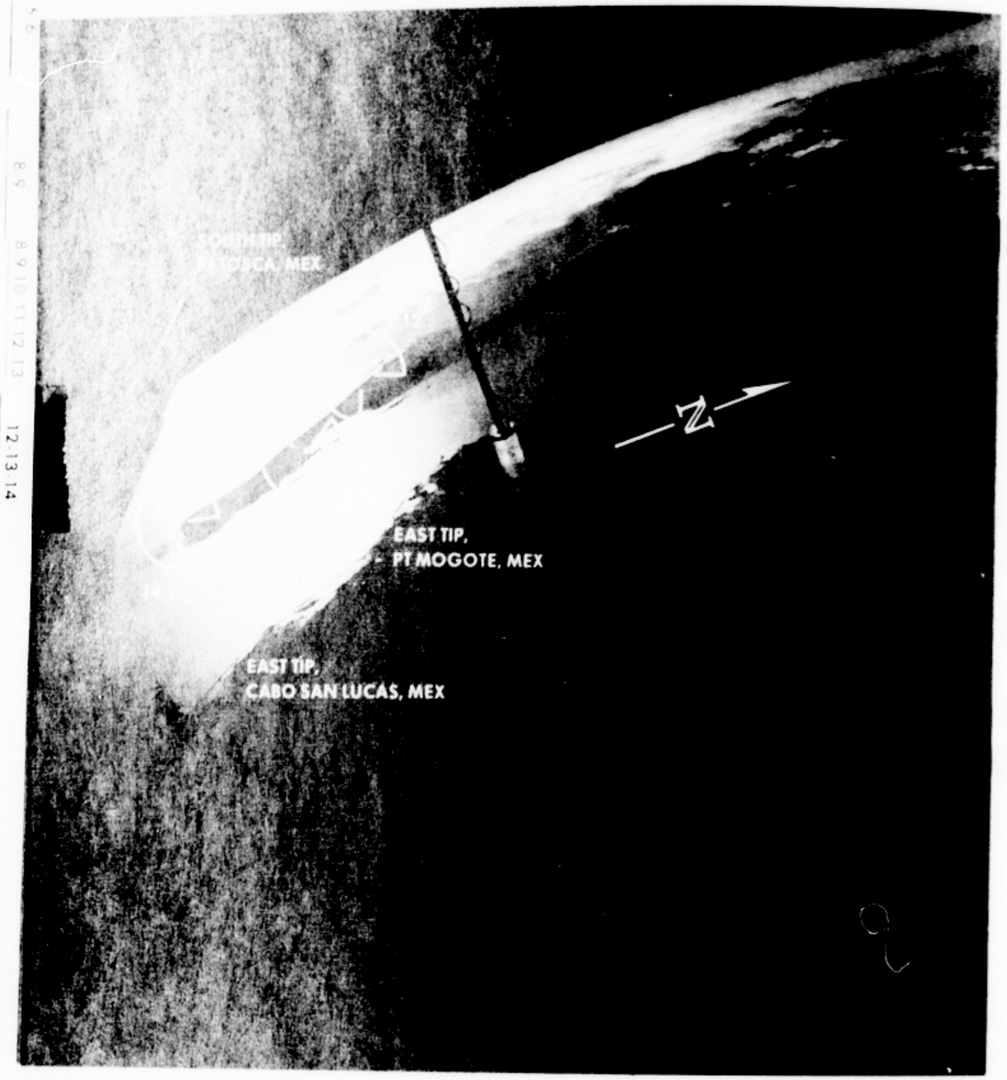
L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
8	27.852° N	57.540° W	115.081° W	0	±0.45
9	26.729° N	56.790° W	113.580° W	0	±0.45

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

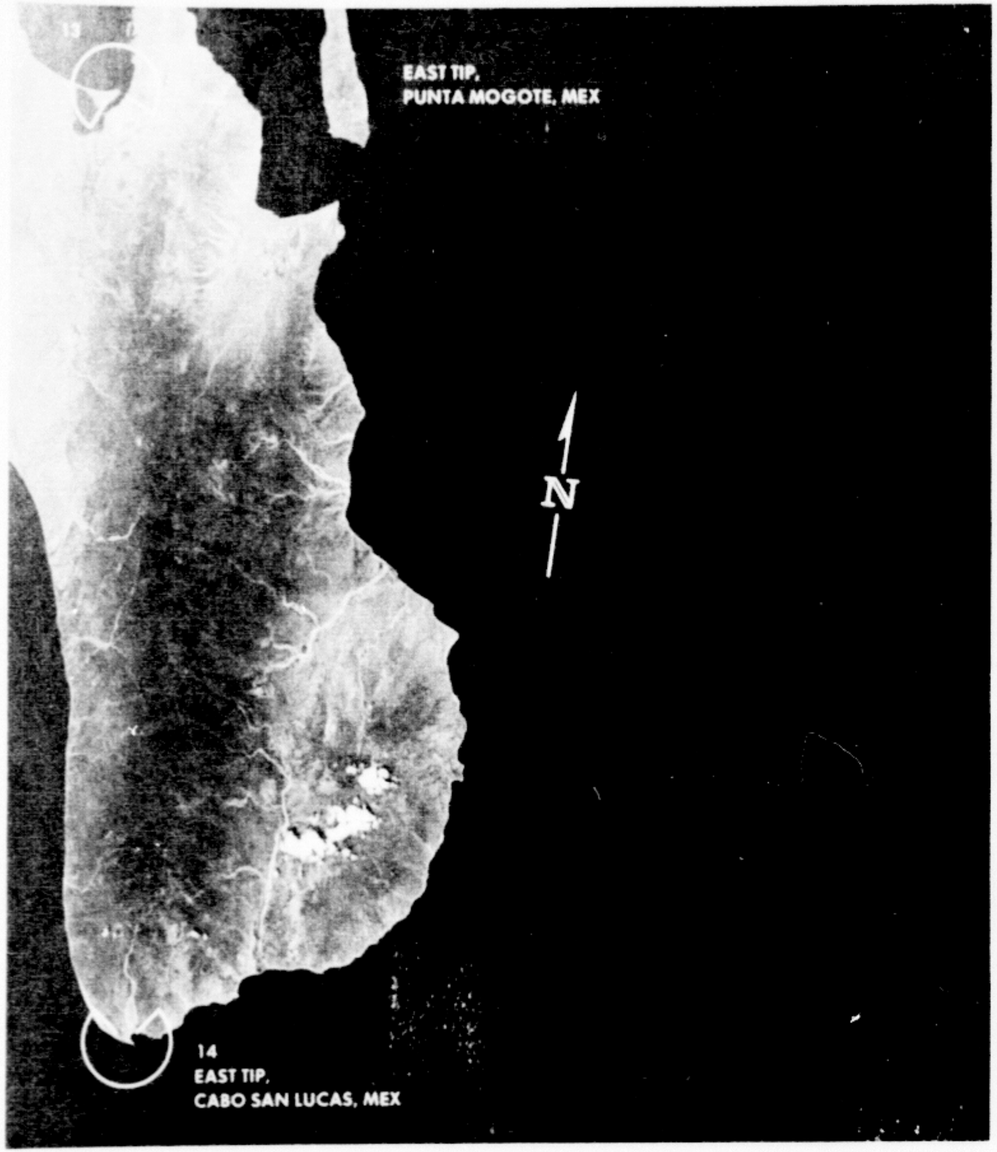
L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
9	27.852° N	57.540° W	115.081° W	0	±0.45
10	26.729° N	56.790° W	113.580° W	0	±0.45
11	28.876° N	56.292° W	112.585° W	0	±0.11
12	27.839° N	55.442° W	110.885° W	0	±0.11
13	24.317° N	55.861° W	111.722° W	0	±0.45
14	24.180° N	55.150° W	110.300° W	0	±0.45



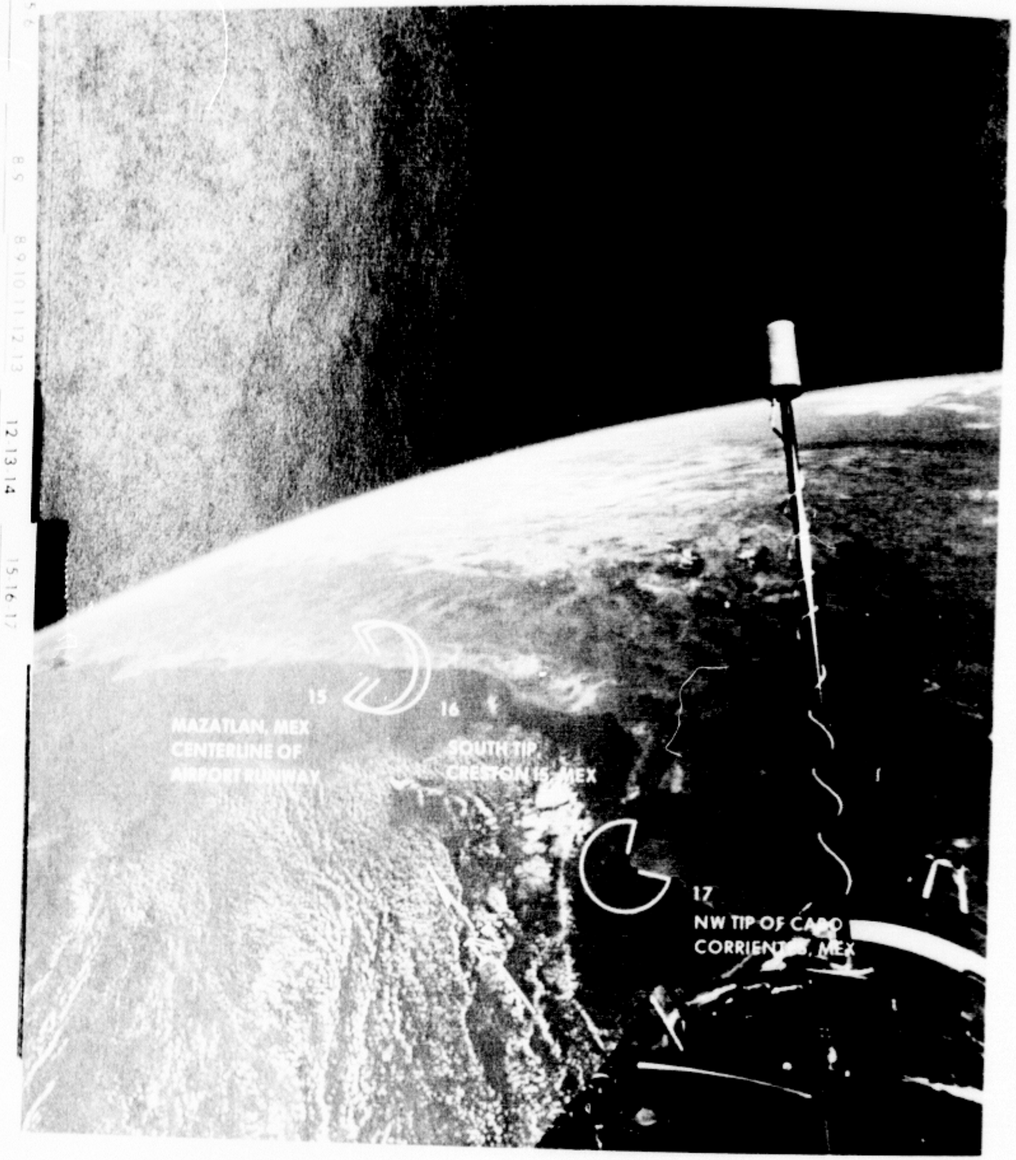
L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
12	24.317° N	55.861° W	111.722° W	0	±0.45



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	24.317° 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	20.406° N	52.851° W	105.703° W	0	±0.23

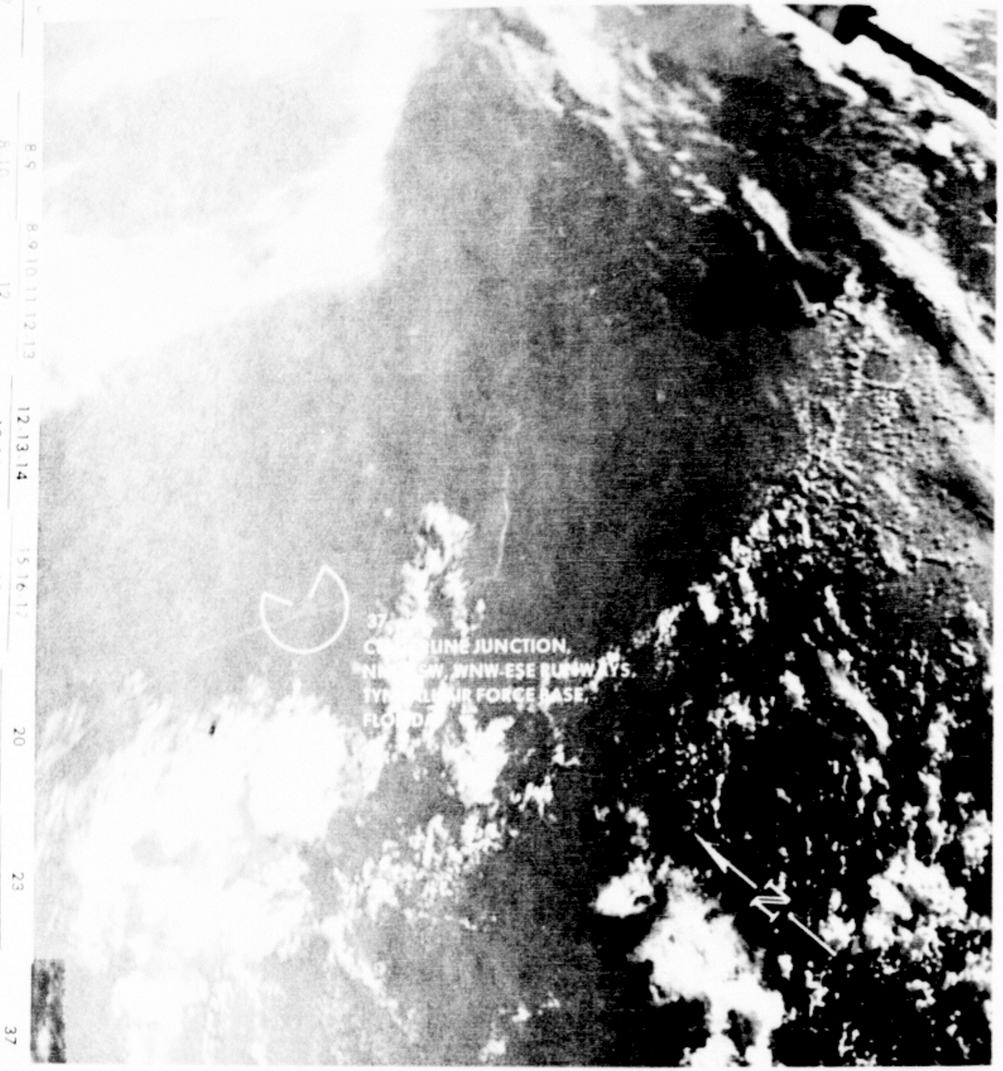
L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
18	31.855° N	53.188° W	106.375° W	±0.64	±0.02

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

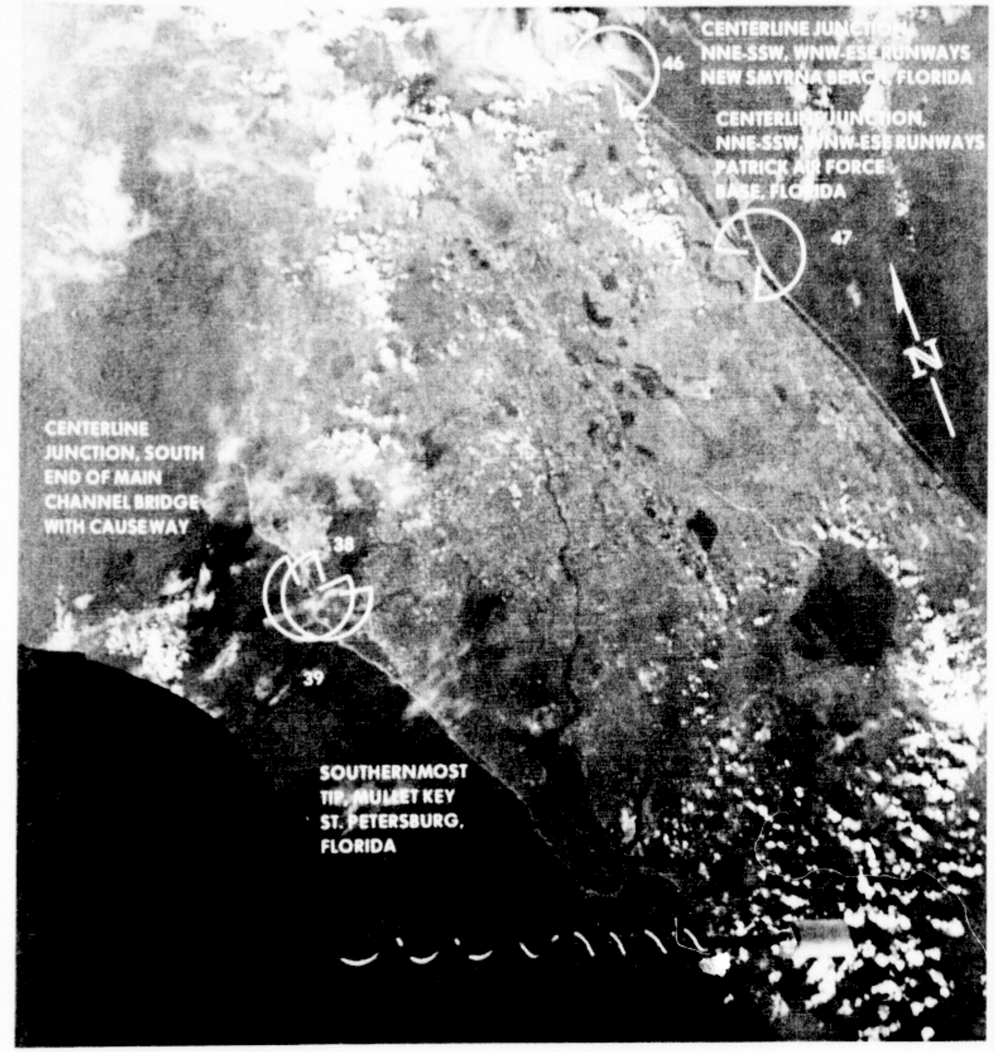
L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
21	27.689° N	48.621° W	97.243° W	0	±0.01

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	18.656° N	45.903° W	91.806° W	0	±0.31

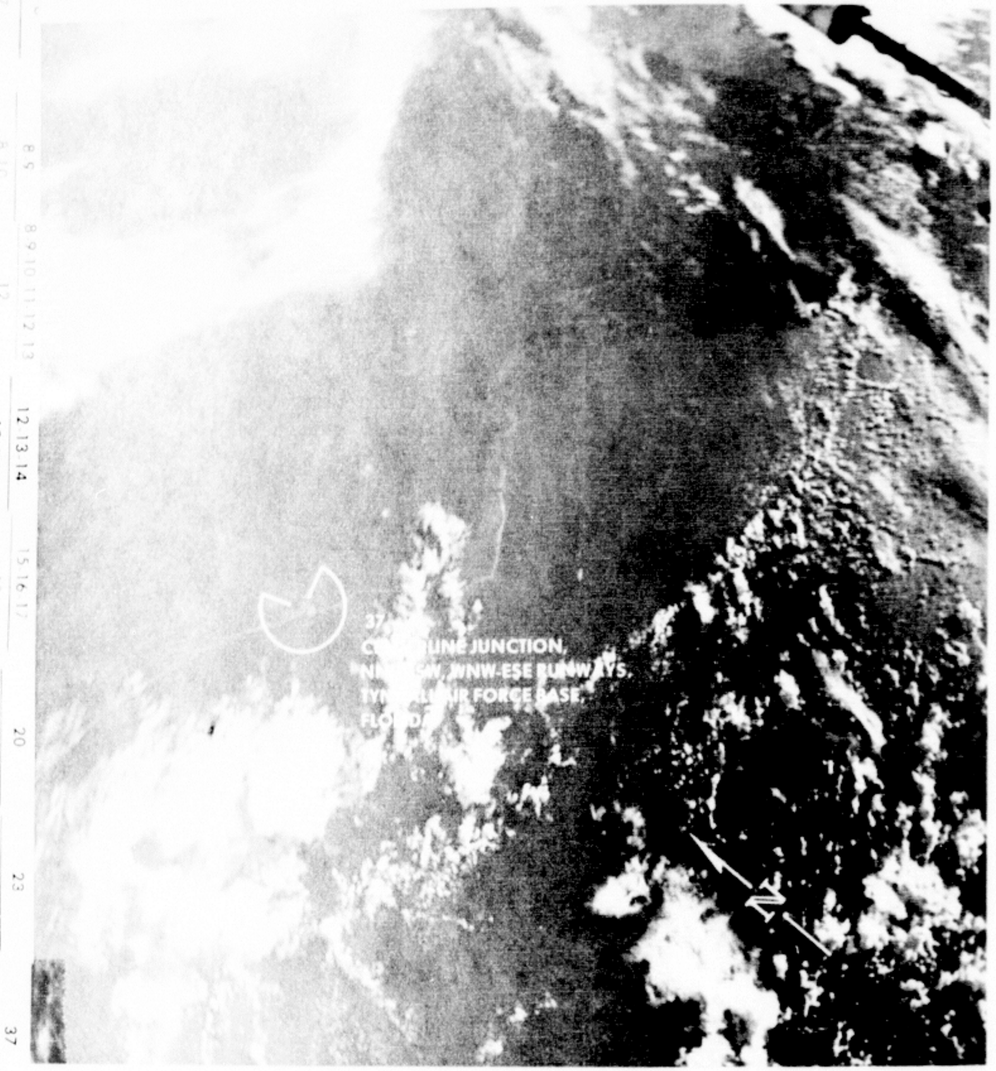
L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
27	14.047° N	41.691° W	83.383° W	+0.01	±0.05



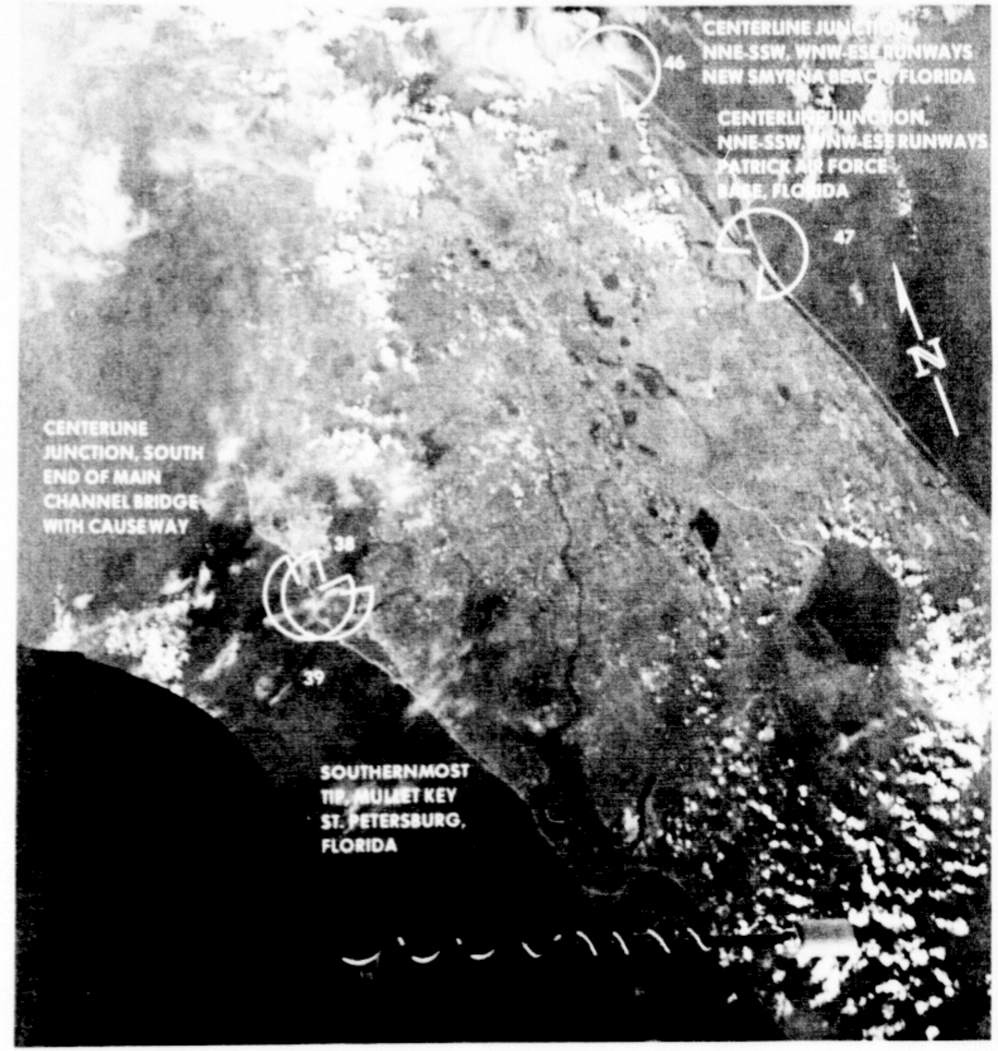
L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
37	30.077° N	42.790° W	85.581° W	0	±0.02



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

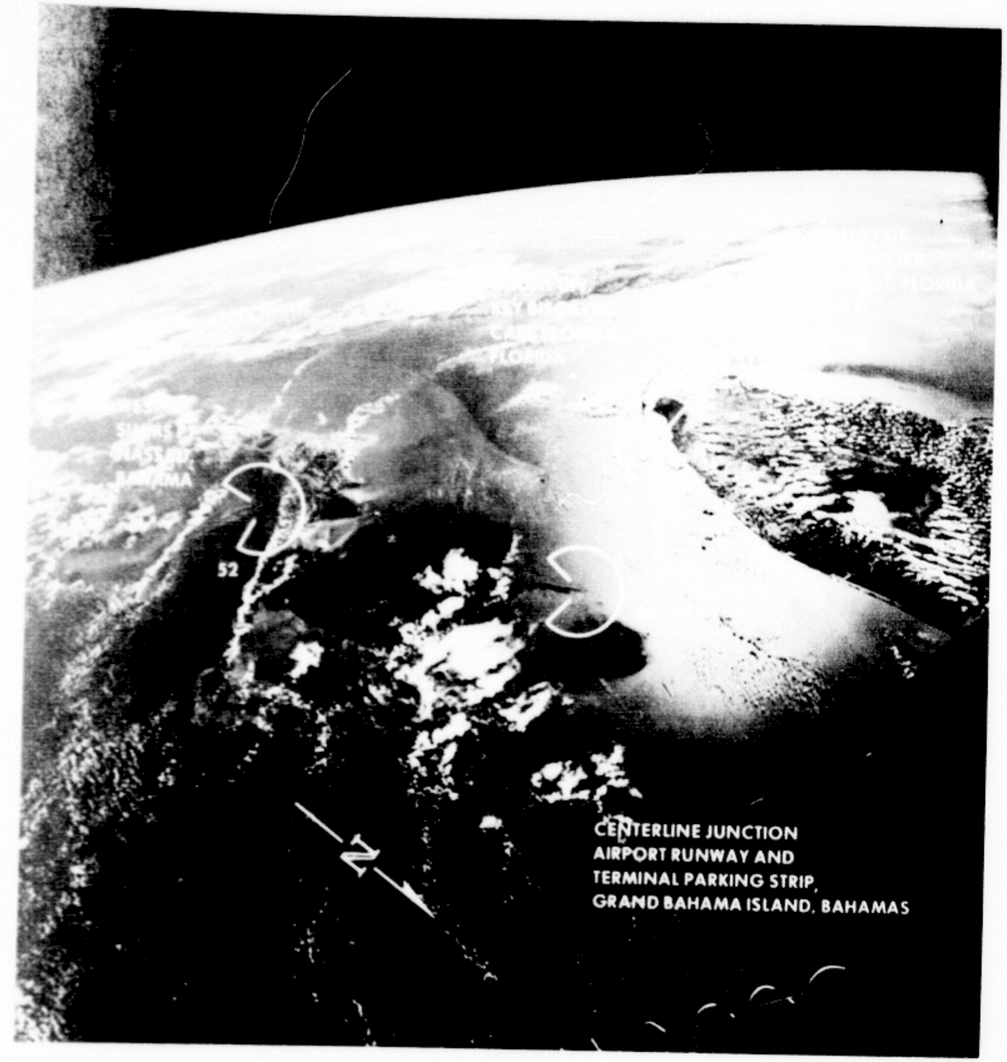


L.M. NO.	± GEODETIC LAT. TO .001"	± GEODETIC LONG. .2 TO .001"	± GEODETIC LONG. TO .001"	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
37	30.077° N	42.790° W	85.581° W	0	±0.02



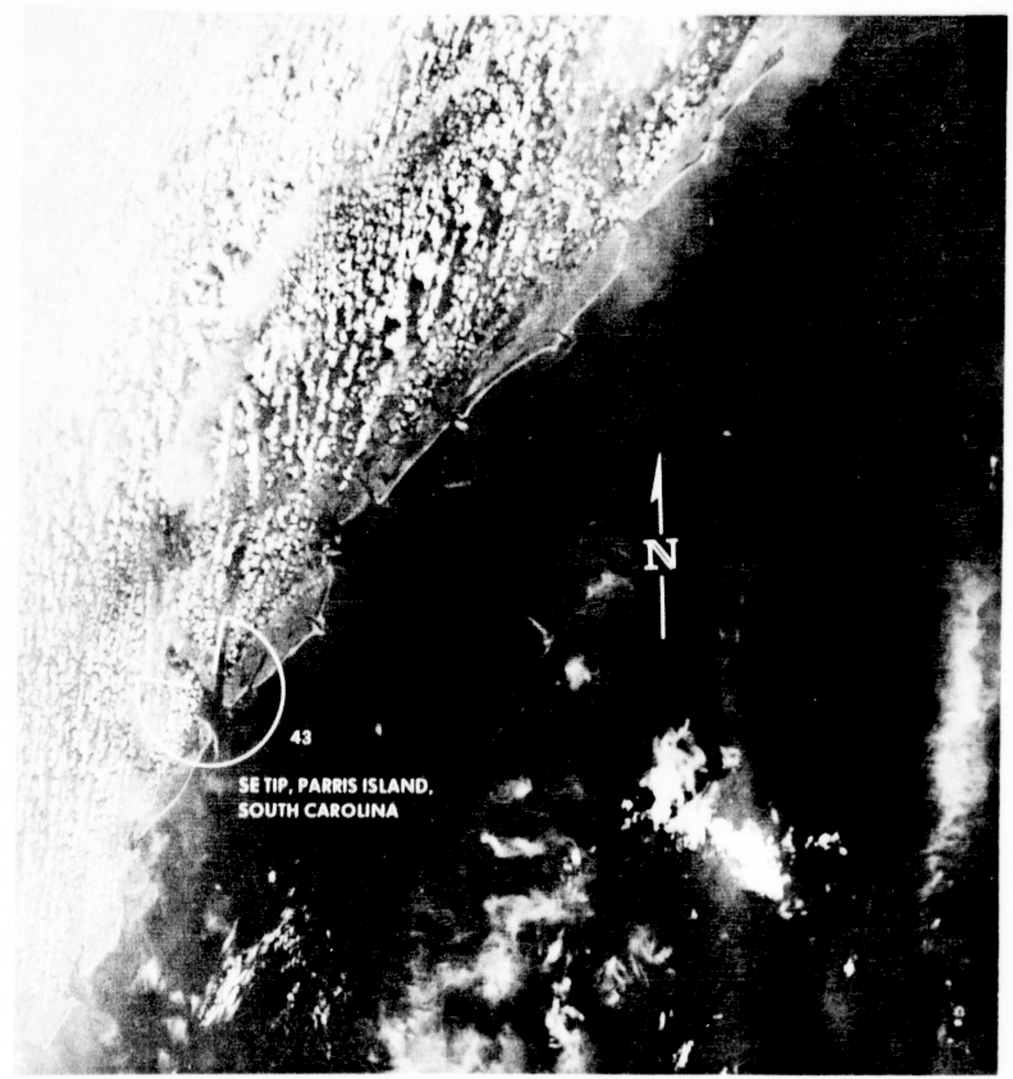
L.M. NO.	± GEODETIC LAT. TO .001"	± GEODETIC LONG. .2 TO .001"	± GEODETIC LONG. TO .001"	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
38	27.593° N	41.315° W	82.630° W	0	±0.11
39	27.612° N	41.367° W	82.735° W	0	±0.02
46	29.055° N	40.474° W	80.948° W	0	±0.02
47	28.240° N	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.
40	24.548° N	40.905° W	81.811° W	0	±0.02

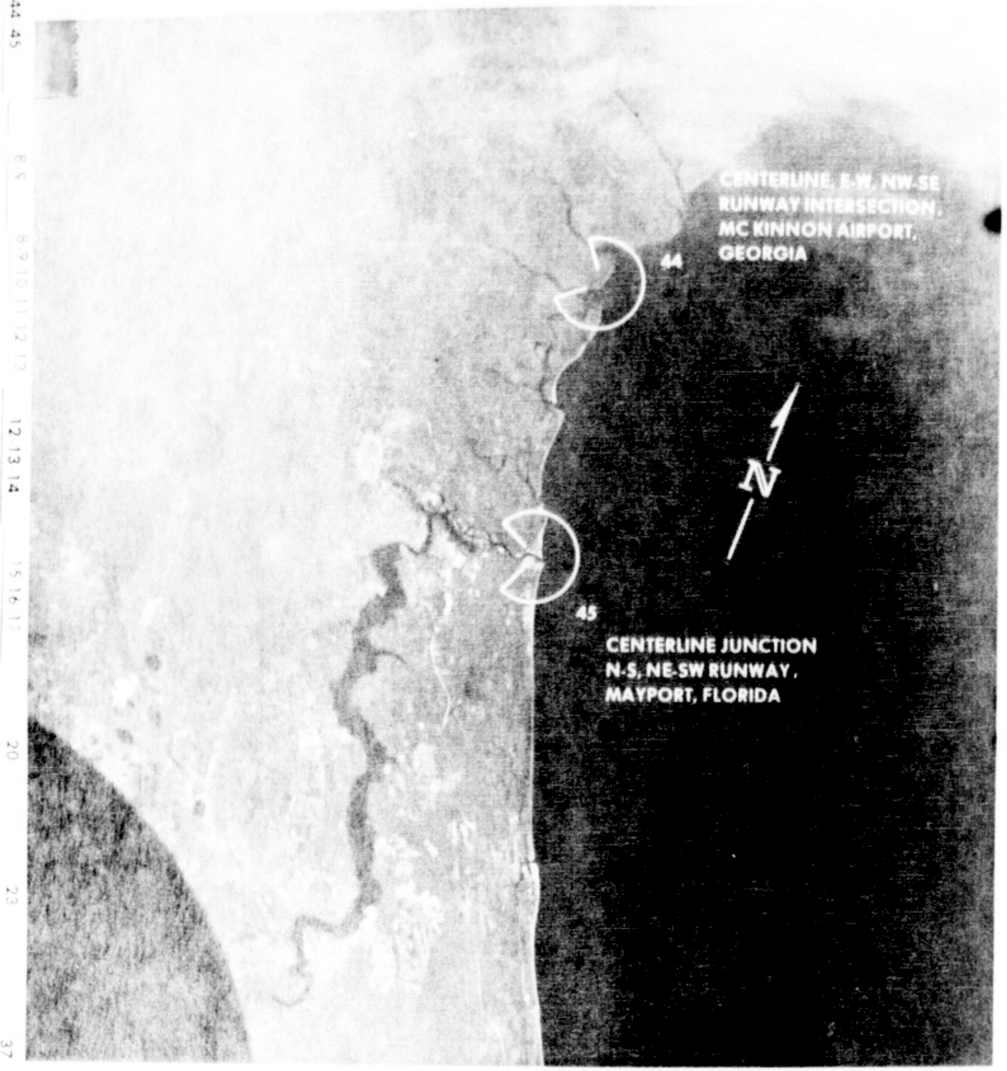


L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
40	24.548° N	40.905° W	81.811° W	0	±0.02
48	25.666° N	40.079° W	80.158° W	0	±0.02
49	26.693° N	39.488° W	78.977° W	0	±0.03
52	25.030° N	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	34.512° N	38.267° W	76.534° W	0	±0.02
42	33.840° N	38.981° 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



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] N	[illegible] W	81.395° W	0	±0.02
[illegible]	[illegible] N	[illegible] W	81.419° W	0	±0.02

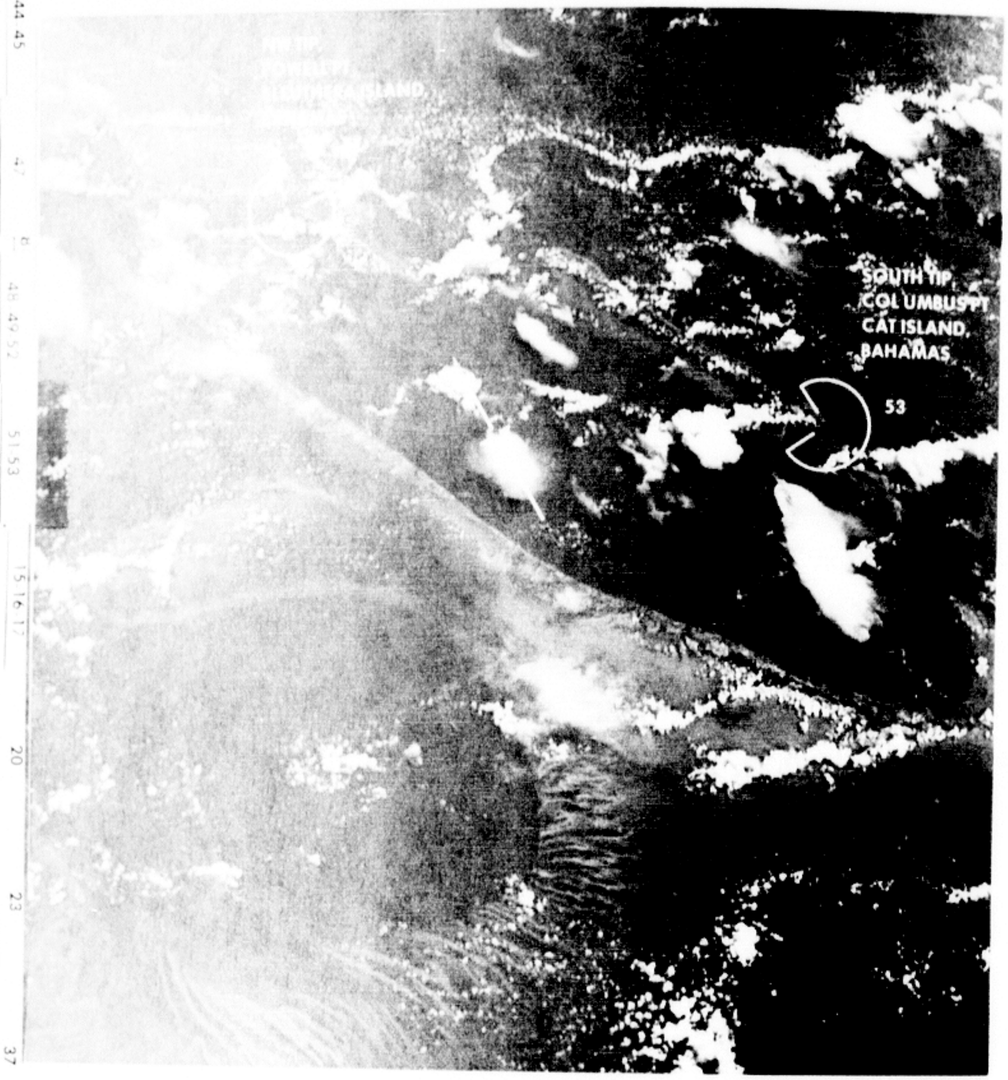
L.M. NO.	± GEODETIC LAT. TO .001'	± GEODETIC LONG. / 2 TO .001'	± GEODETIC LONG. TO .001'	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
46	29.055° N	40.474° W	80.948° W	0	±0.02

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.
47	28.303° N	40.303° W	80.607° W	0	±0.02

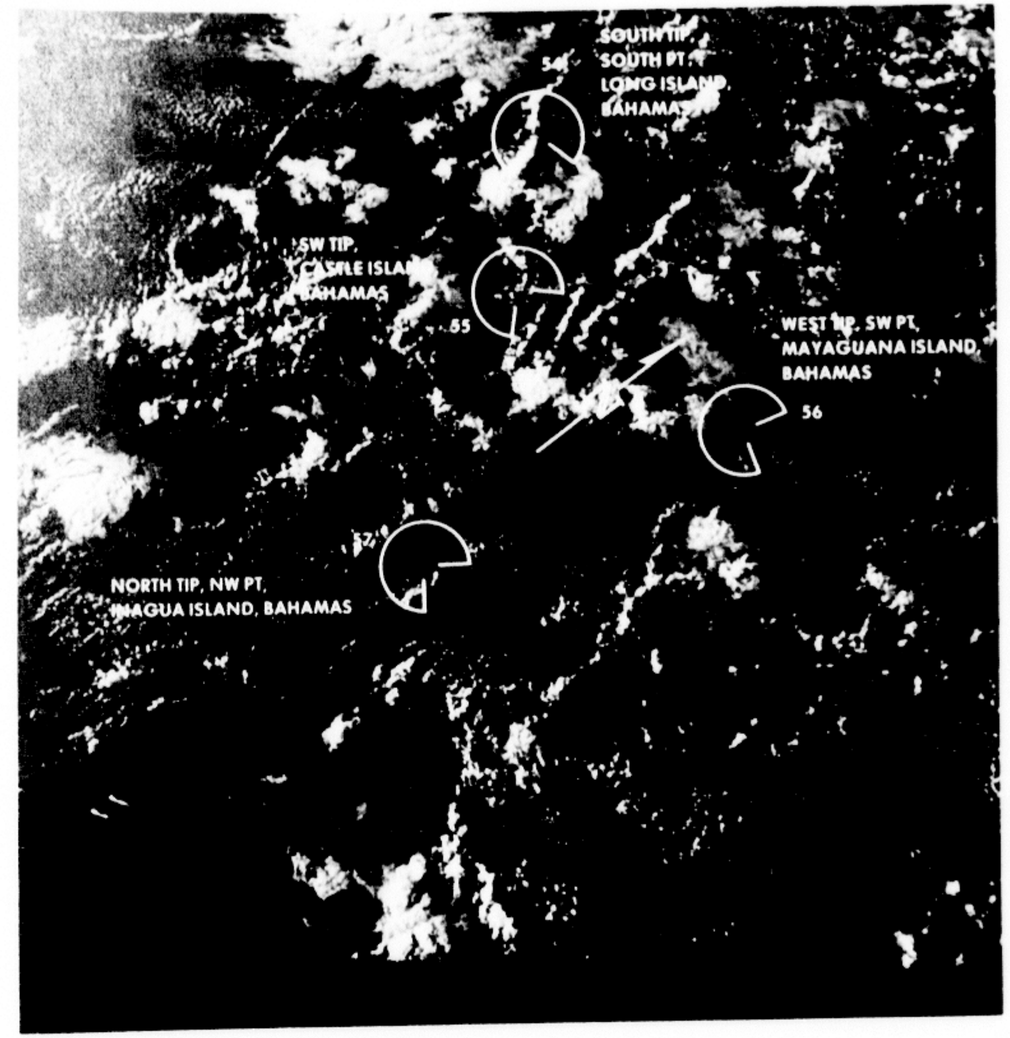
L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
48	25.666° N	40.079° W	80.158° W	0	±0.02

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.
49	25.666° N	[illegible] W	80.158° W	0	±0.02
51	26.693° N	39.448° 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.
51	24.841° N	38.172° W	76.345° W	0	±0.04
53	24.134° N	37.636° W	75.272° W	0	±0.58



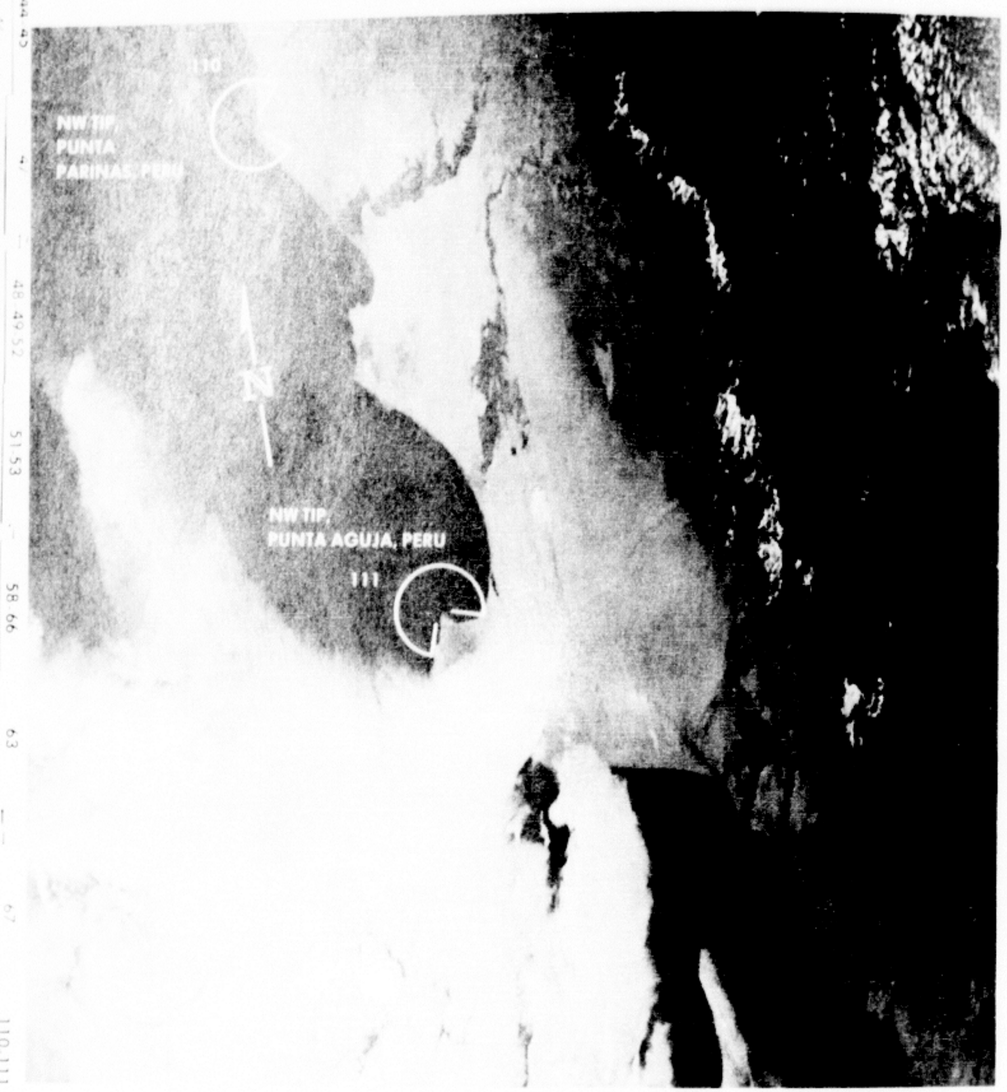
L. M. NO	+ GEODETIC LAT. TO .001°	+ GEODETIC LONG. /2 TO .001°	+ GEODETIC LONG TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
54	22.845° N	37.430° W	74.861° W	0	±0.58
55	22.121° N	37.165° W	74.330° W	0	±0.34
56	22.365° N	36.585° W	73.171° W	0.01	±0.03
57	21.108°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

L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG. /2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
58	21.425° N	35.571° W	71.143° W	-0.01	±0.02
66	19.350° N	34.611° W	69.222° W	-0.01	±0.21

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.
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	19.911° N	37.595° 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



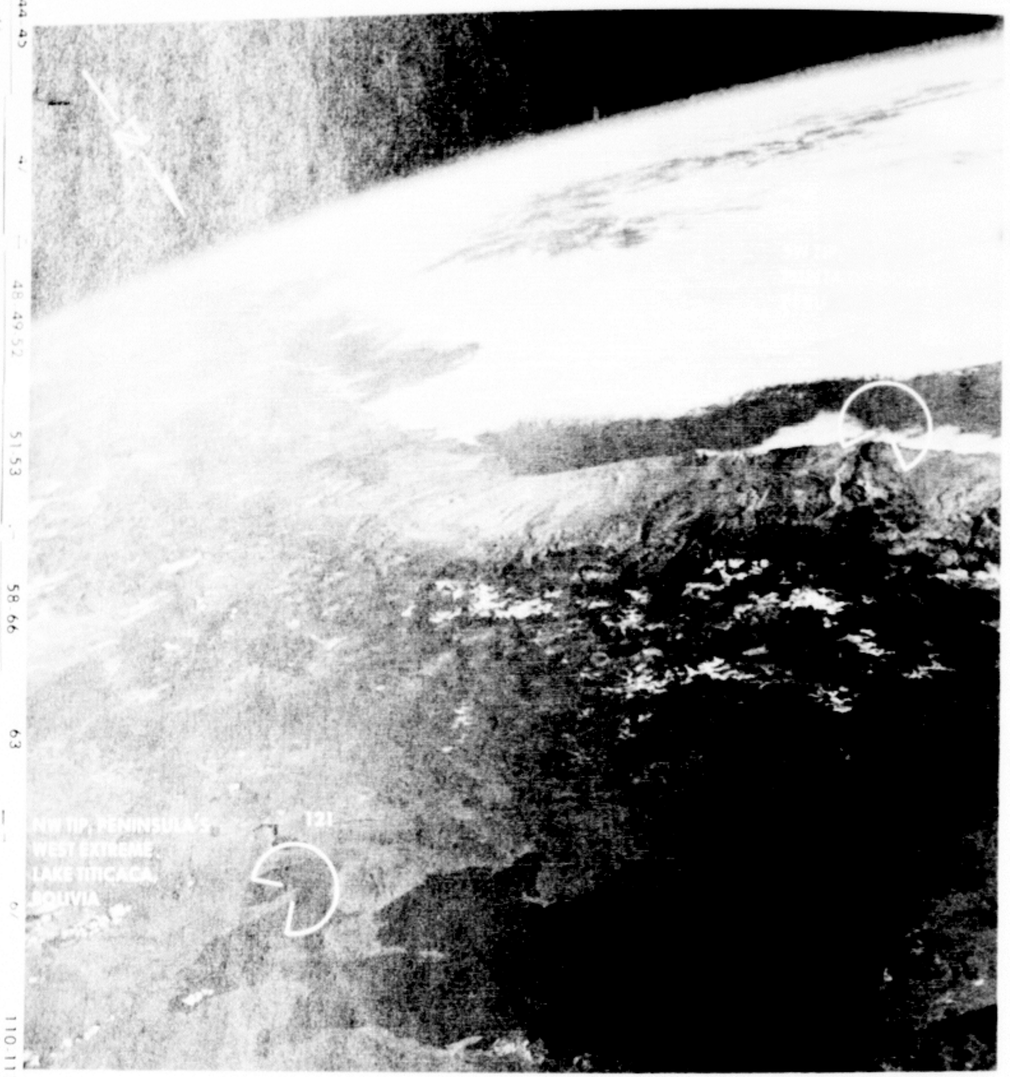
L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
110	4.668° S	40.664° W	81.328° W	0	±0.04
111	5.809° S	40.554° W	81.107° W	0	±0.39

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	12.022° S	38.584° W	77.168° W	0	±0.04

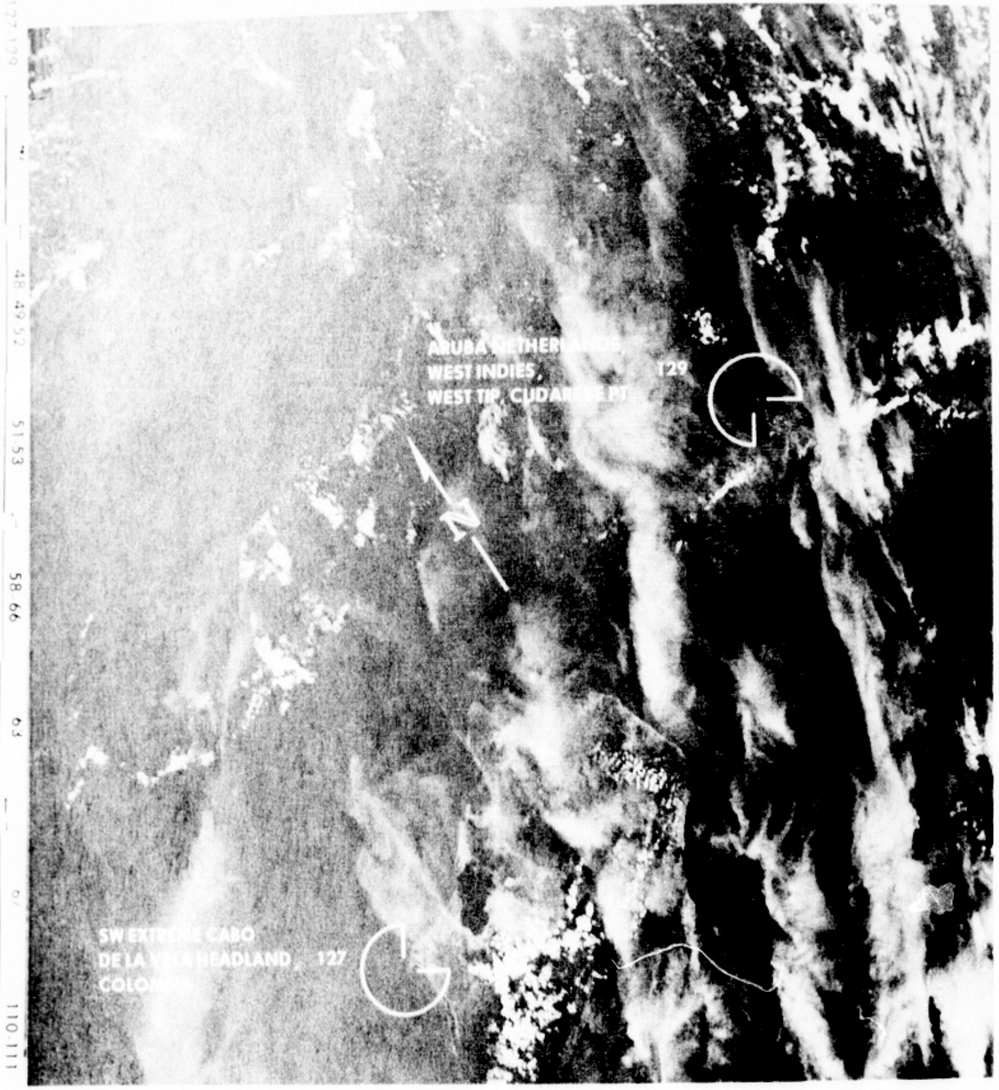
7 NORTH TIP, SAN GALLAN ISLAND, PERU

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

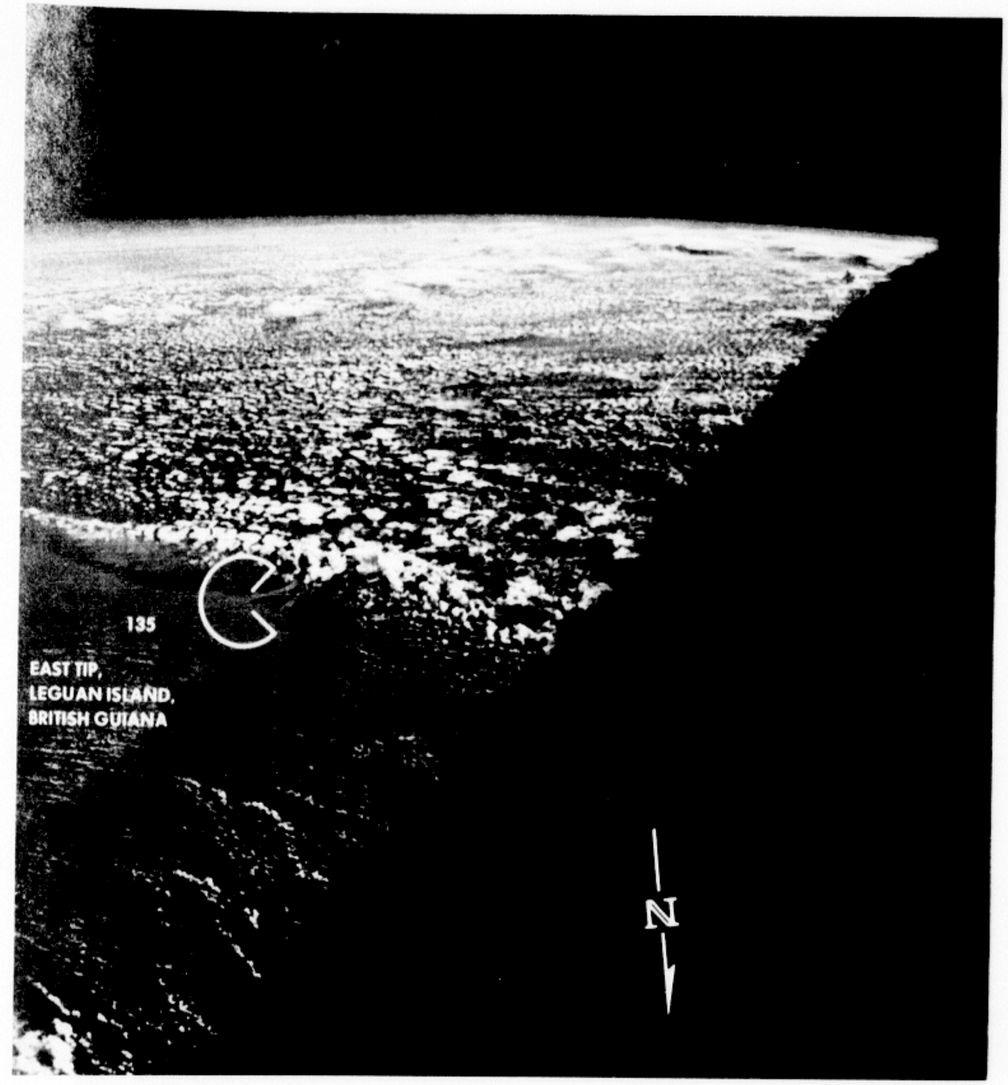


L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
120	17.707° S	35.691° W	71.382° W	0	±0.05
121	16.470° S	34.479° W	68.958° W	+2.05	±0.03

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

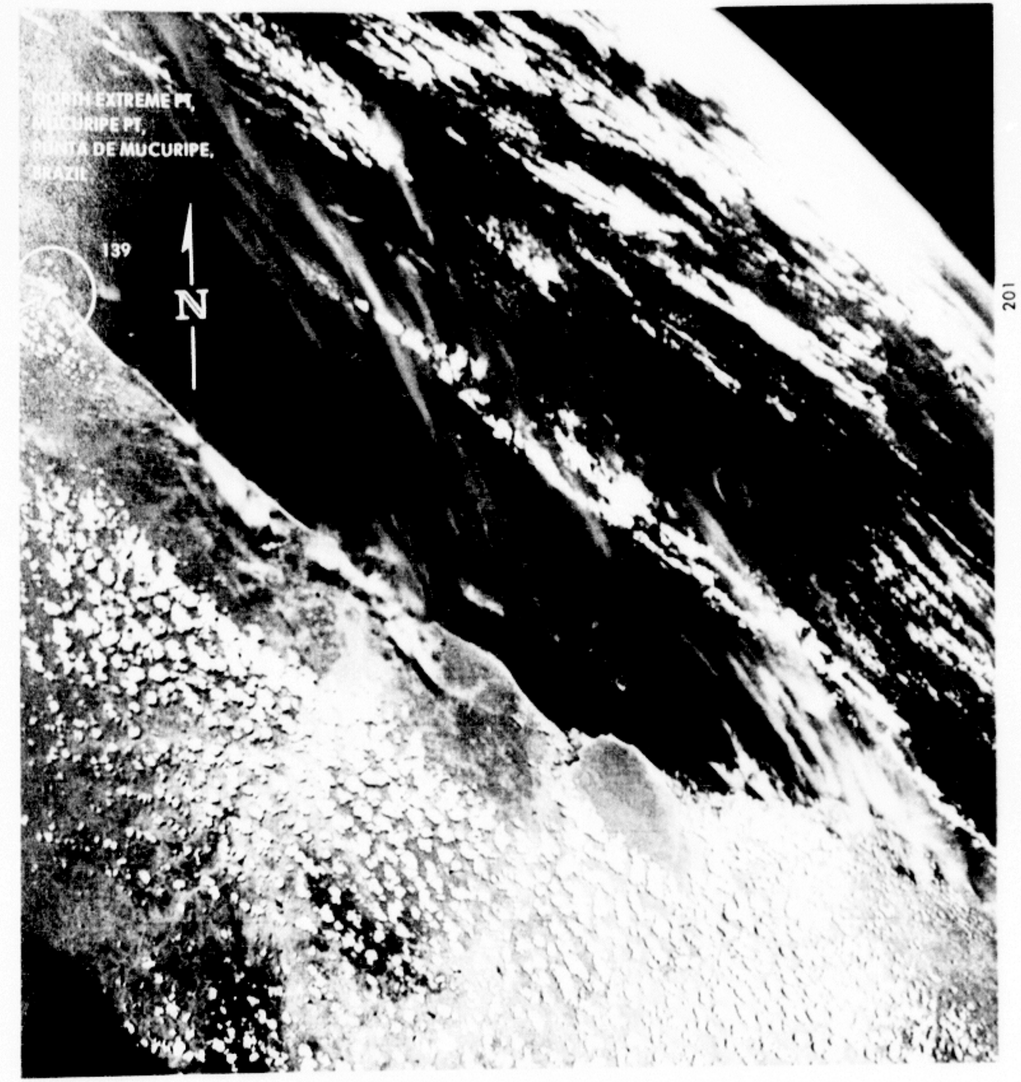


L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
127	12.207° N	36.090° W	72.180° W	+0.01	±0.02
129	12.617° N	35.030° W	70.060° W	+0.01	±0.02



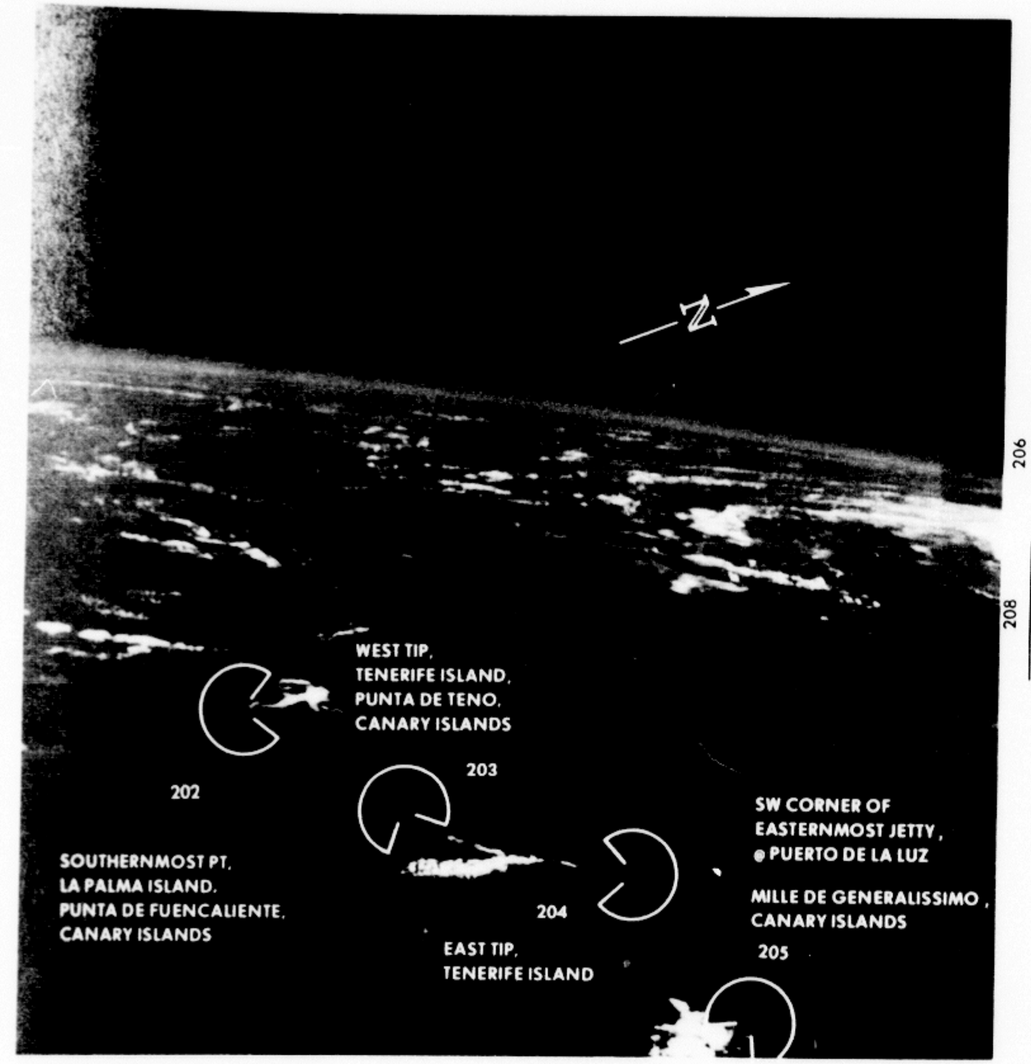
L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
135	6.946° N	29.167° W	58.335° W	-0.01	+0.19

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

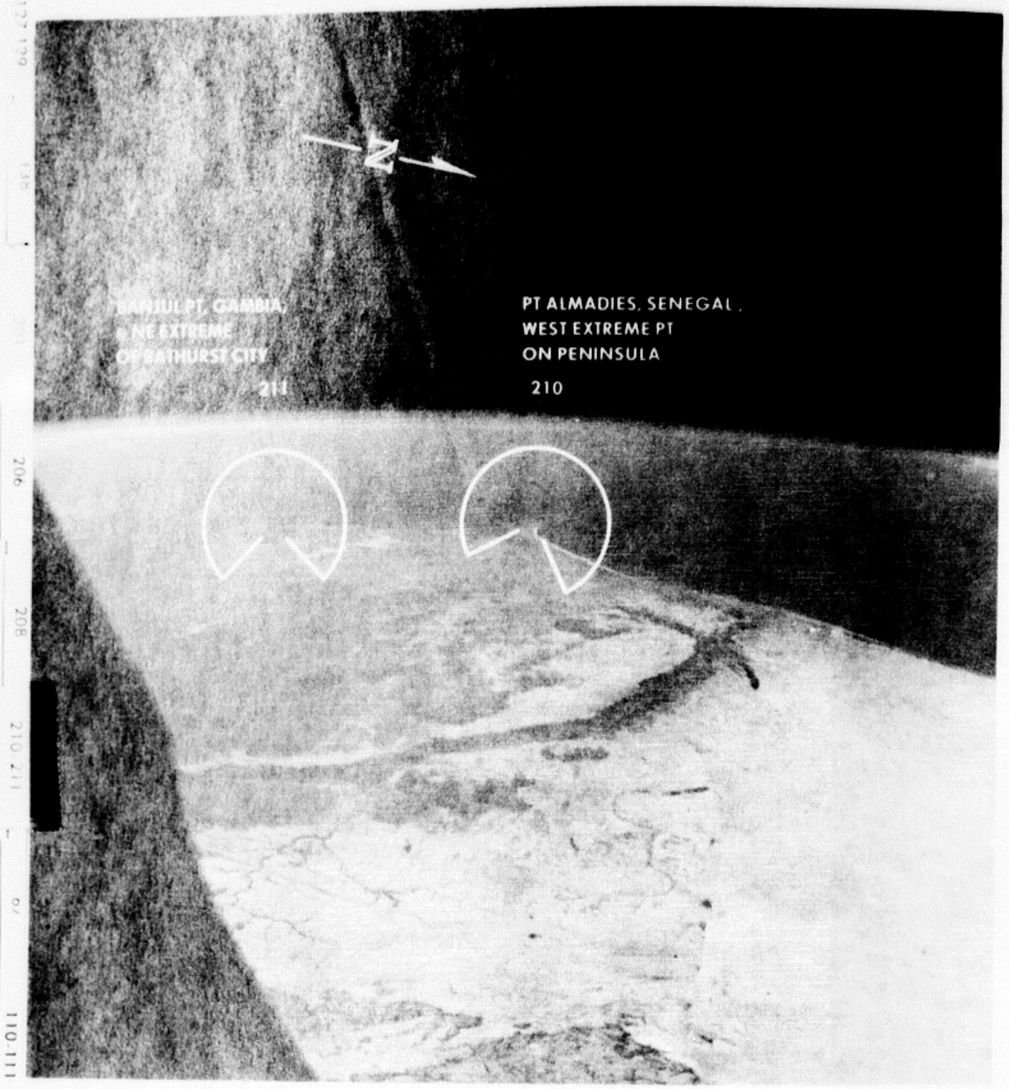
L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
201	30.612° N	4.945° W	9.891° W	0	±0.14



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

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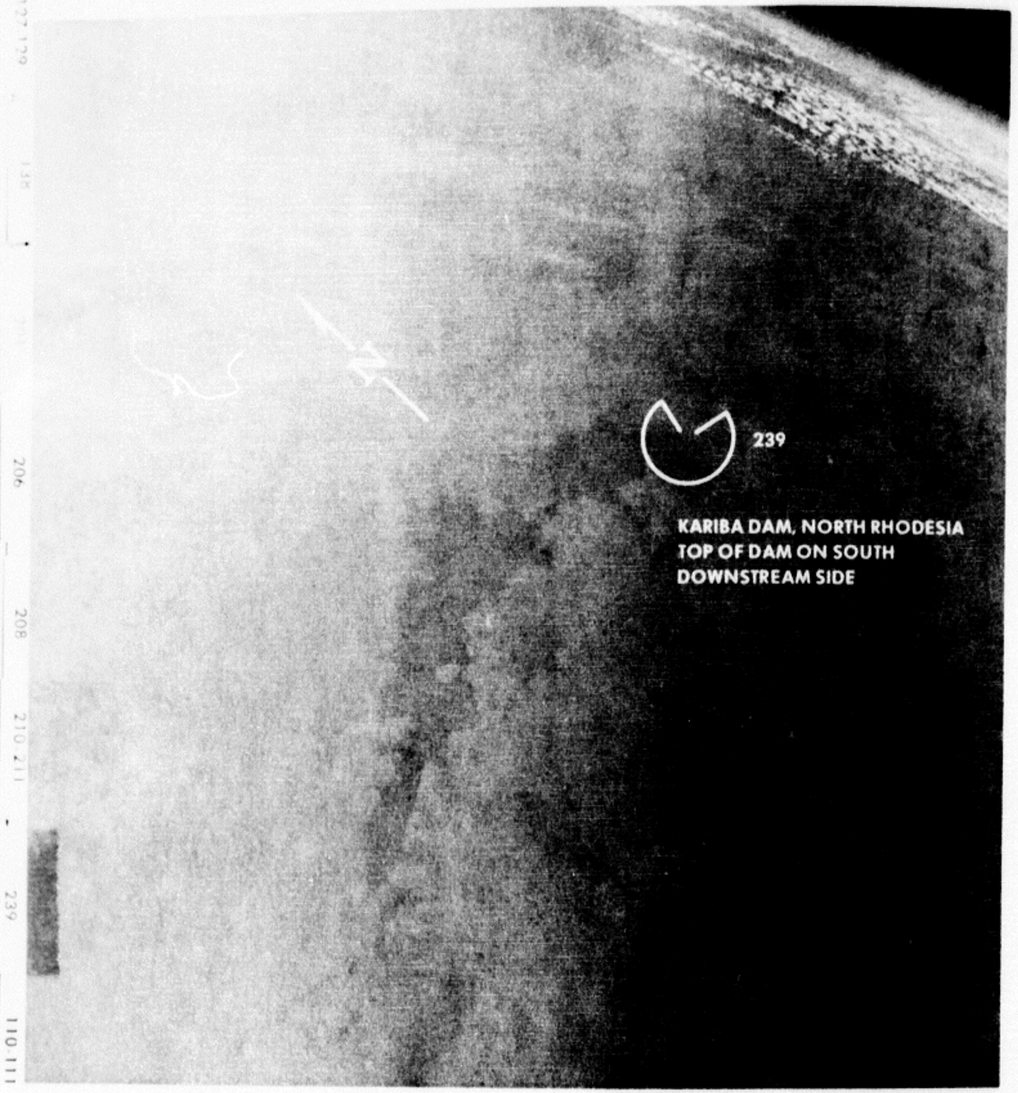
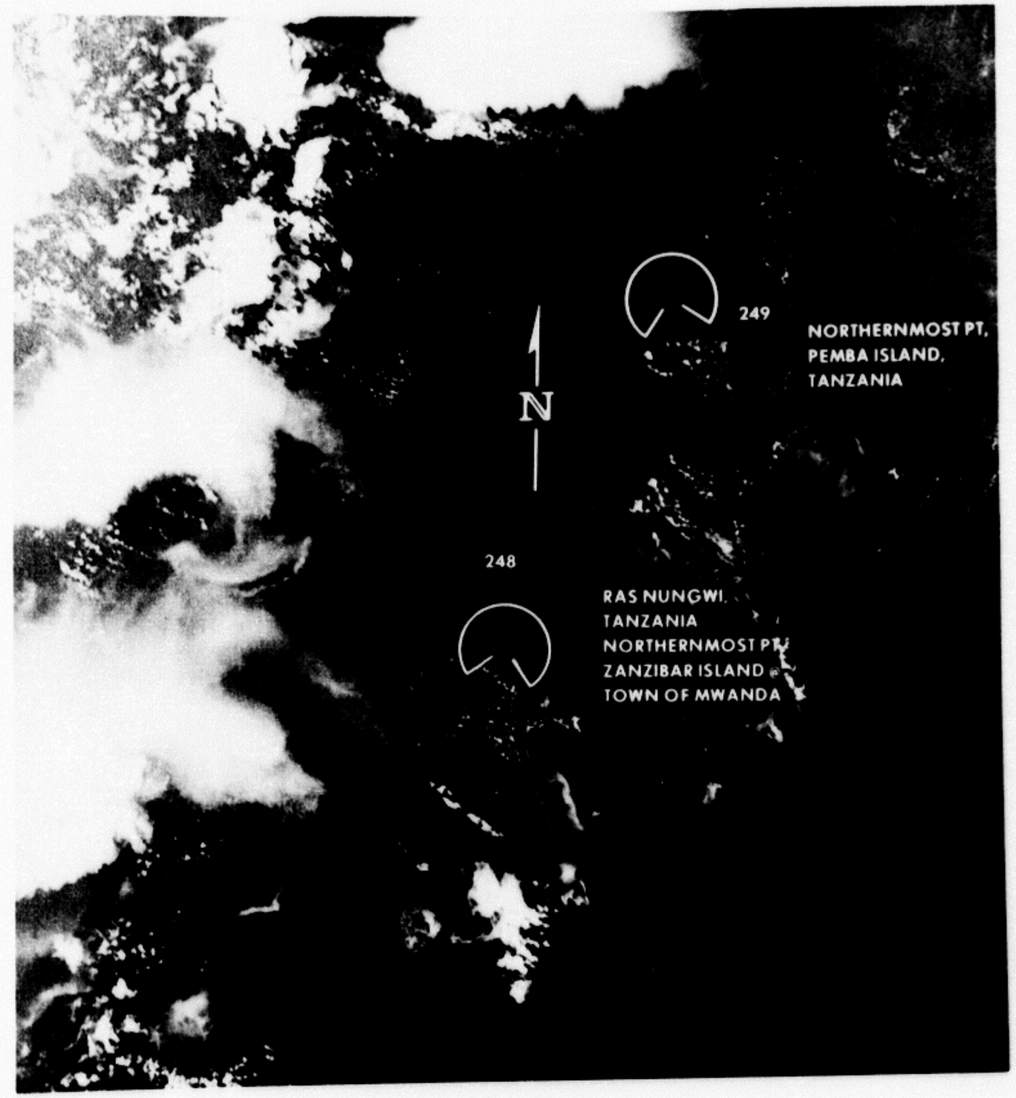
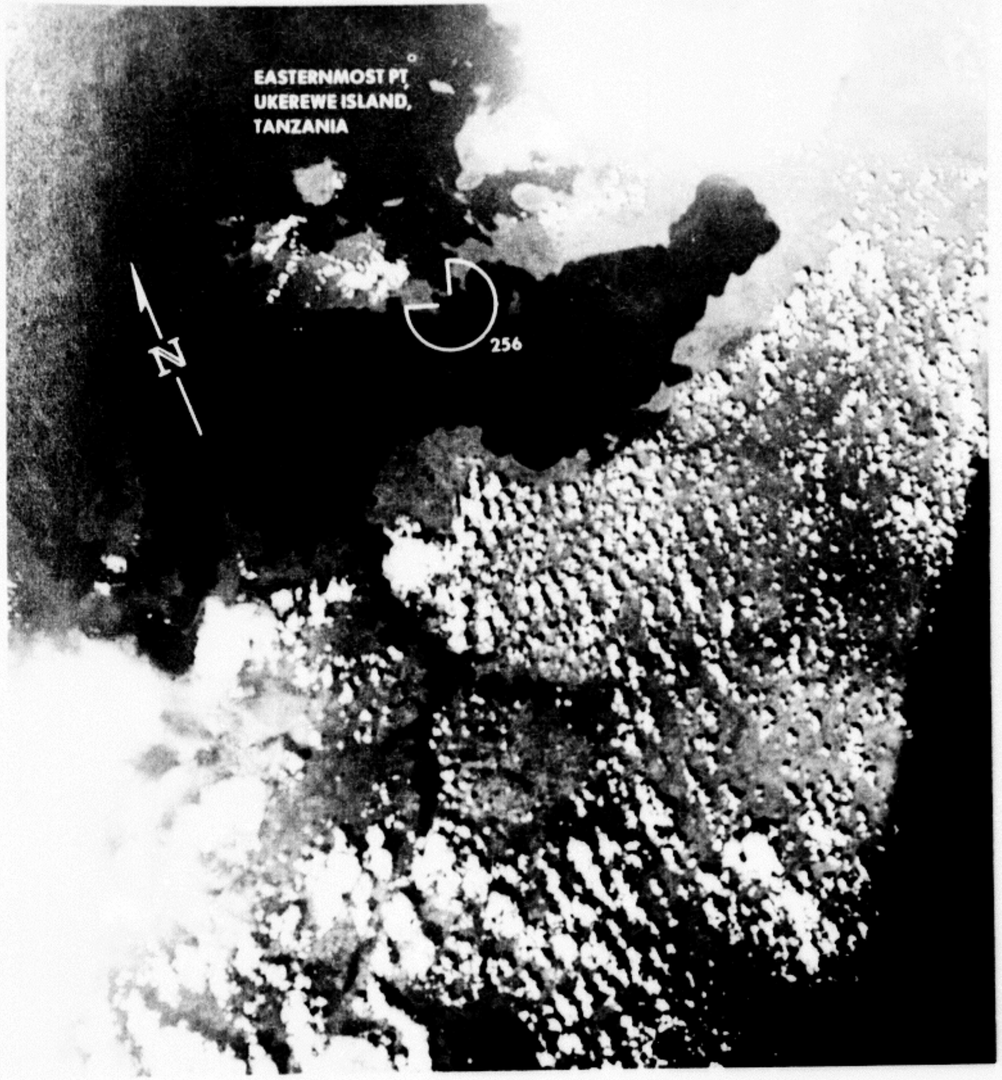


L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
239	16.522° S	14.381° E	28.763° E	+0.26	±0.03



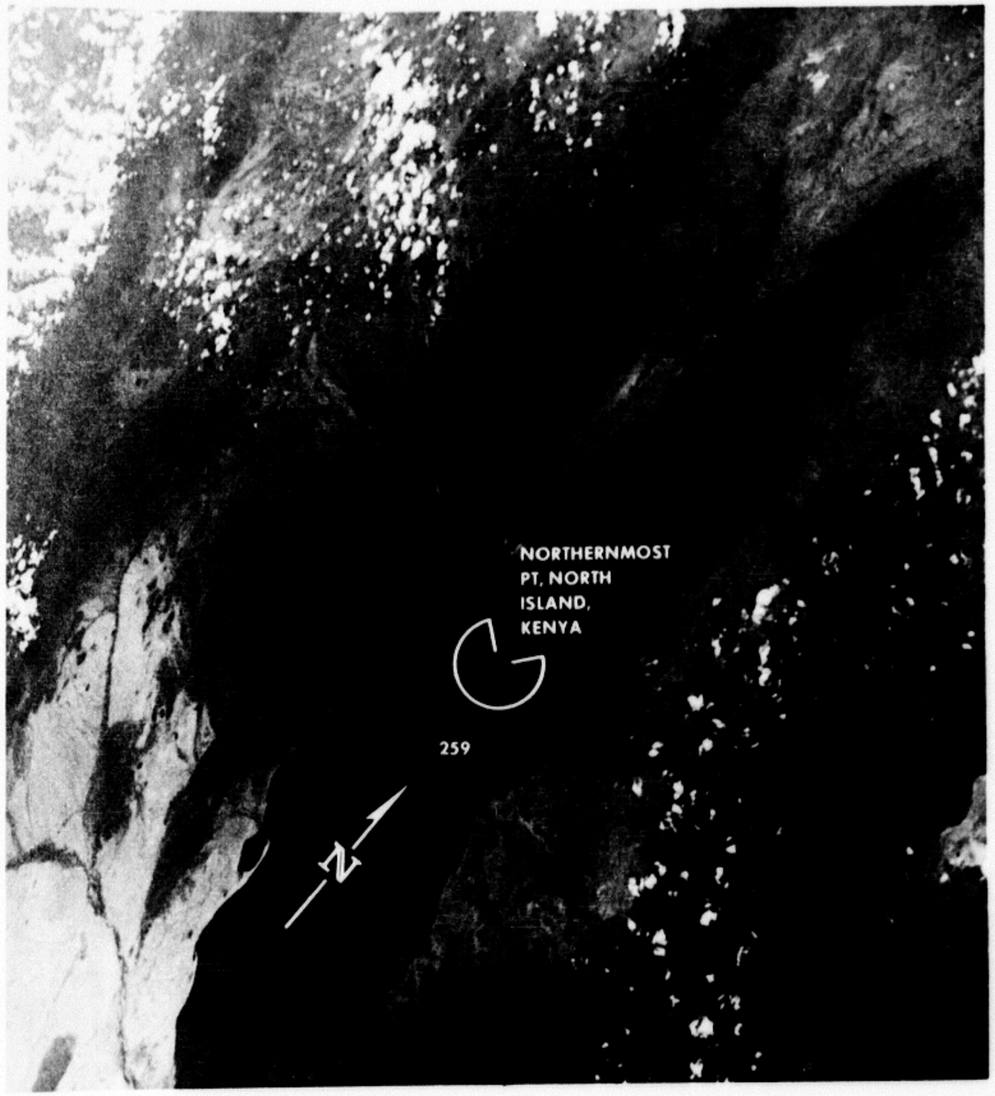
L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
248	5.723° S	19.741° E	39.483° E	0	±0.17
249	4.864° S	19.839° E	39.678° E	0	±0.15

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.
251	8.249° S	14.194° E	28.388° E	+0.49	±0.18
252	8.480° S	14.443° E	28.886° E	+0.49	±0.14
253	8.367° S	14.748° E	29.897° E	+0.42	±0.31



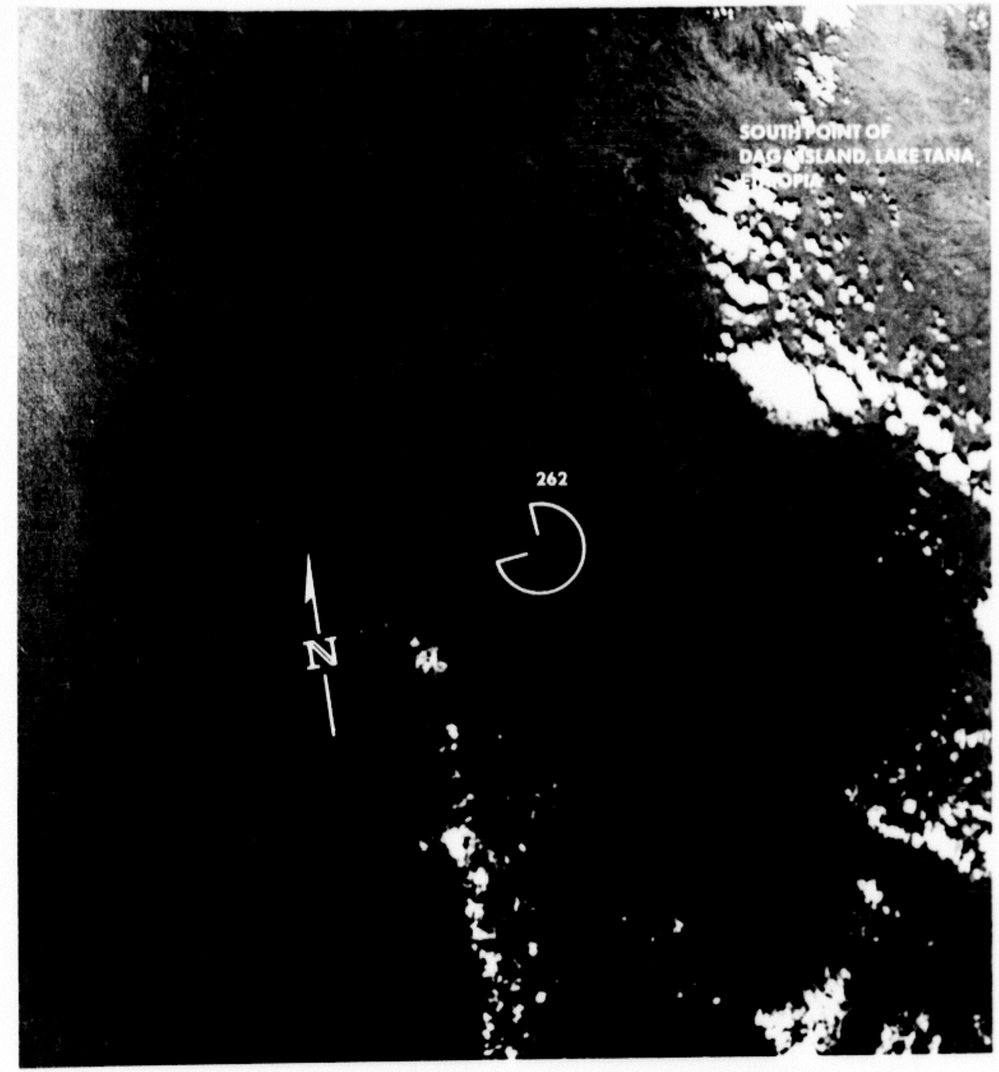
L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
256	2.115° S	16.598° E	33.197° E	+0.62	±0.59

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	0.403° S	17.152° E	34.306° E	+0.62	±0.04



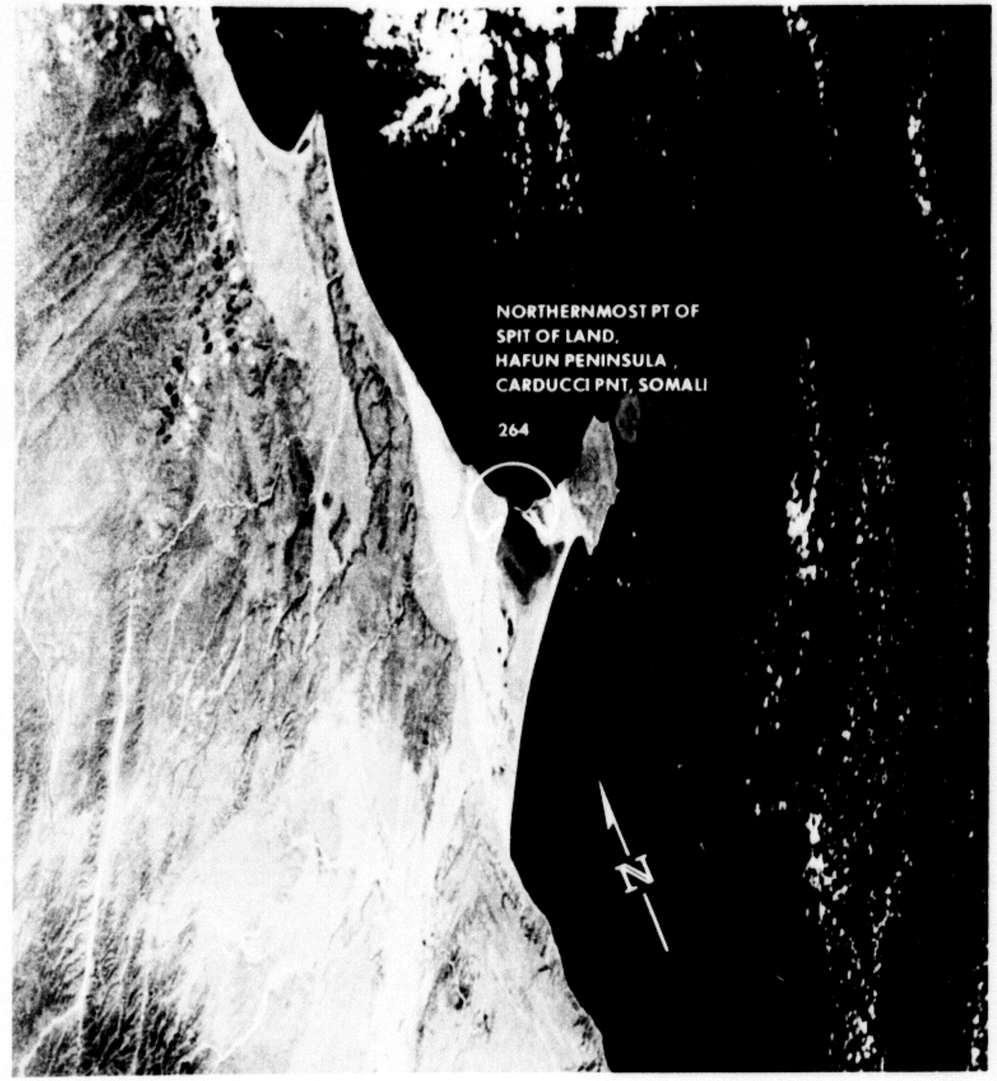
L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
259	4.070° N	18.024° E	36.048° E	+0.21	±0.18

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	12.250° N	19.432° E	38.864° E	+0.88	±0.45

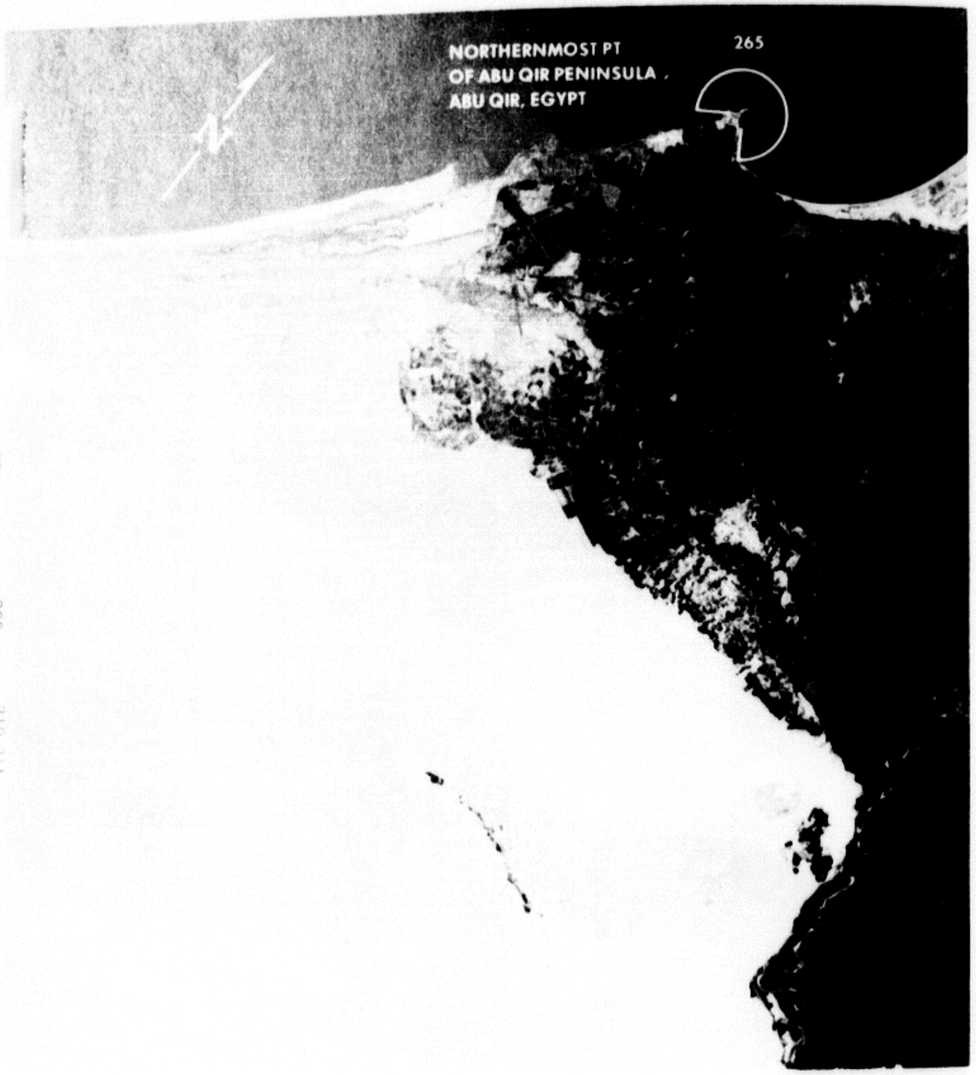


L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
262	11.868° N	18.672° E	37.344° E	+0.99	+0.35

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

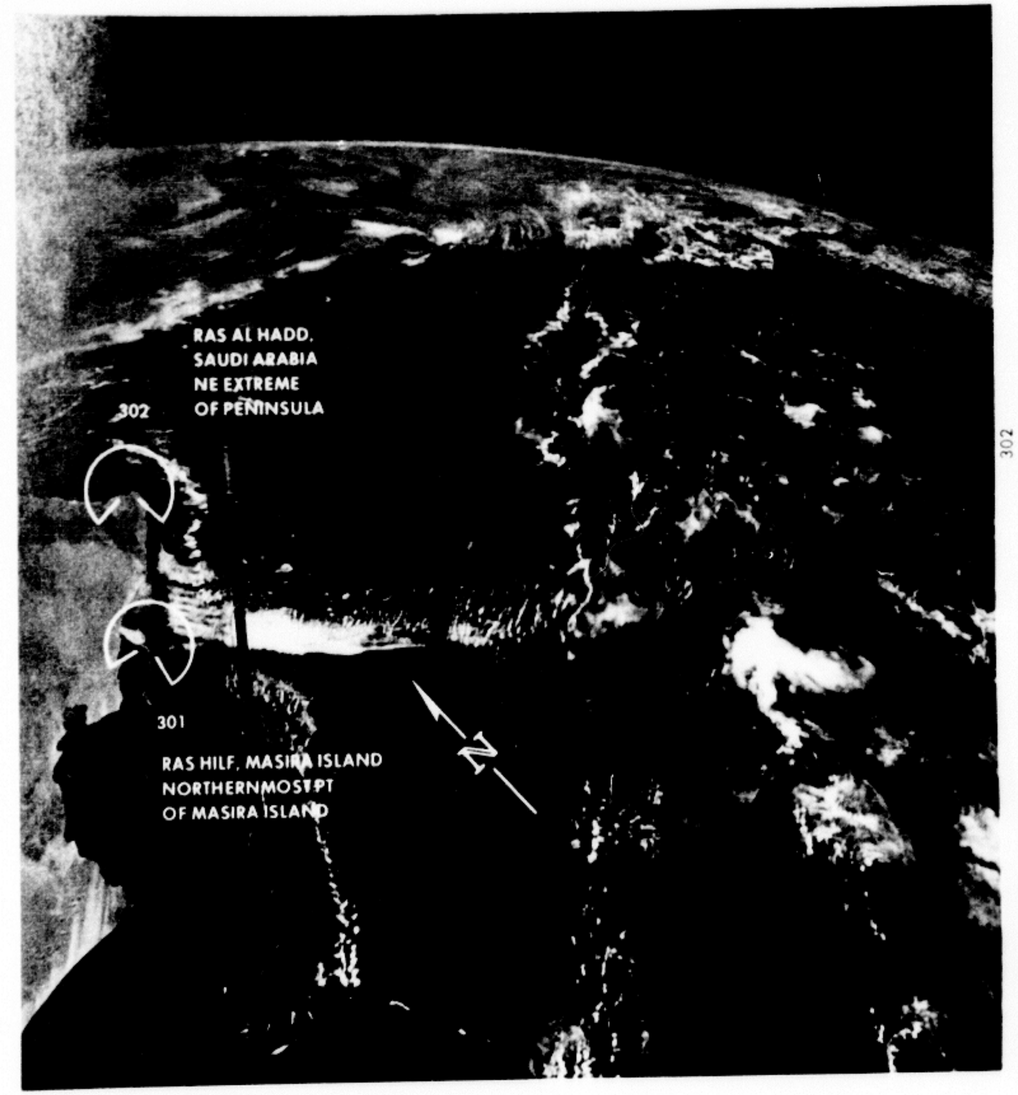


L.M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
265	31.330° N	15.035° E	30.070° E	+0.01	±0.03

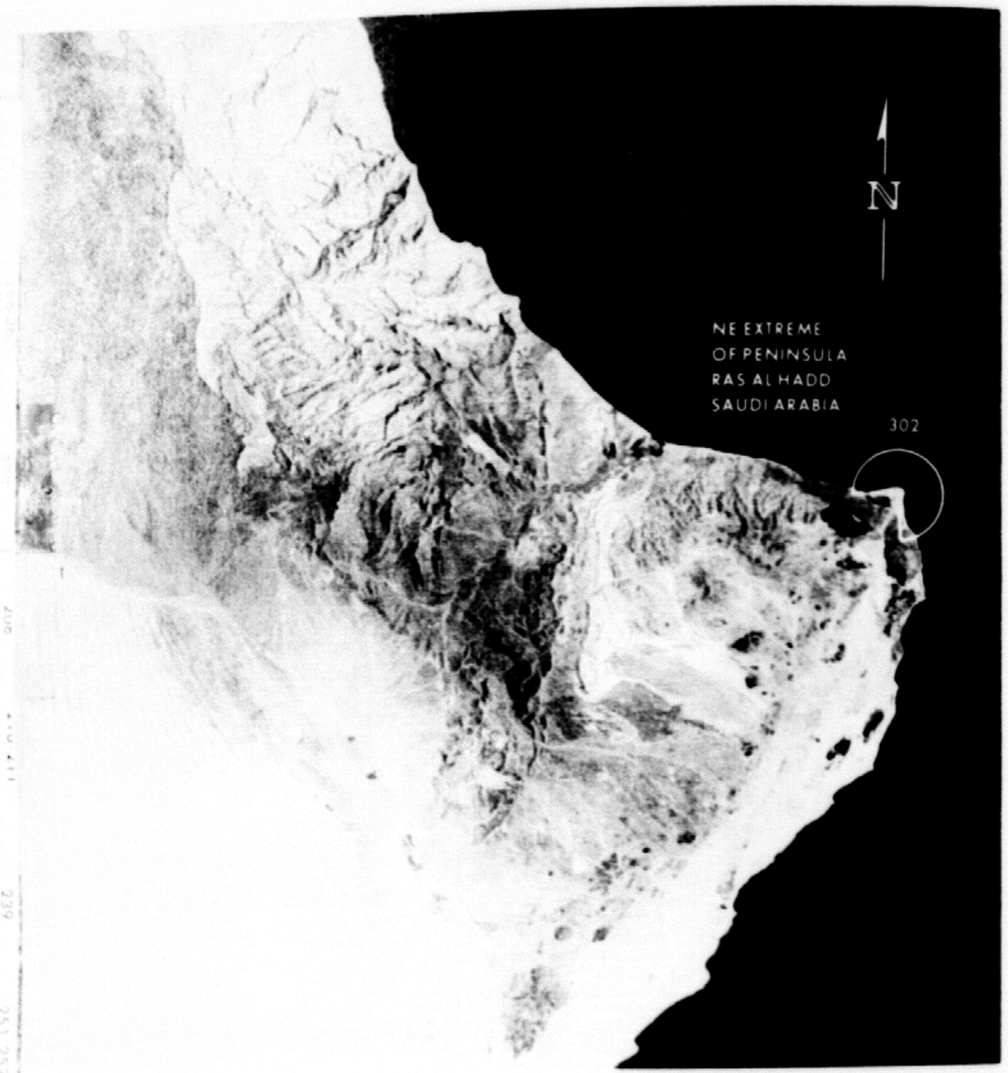
266-267
301-302

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

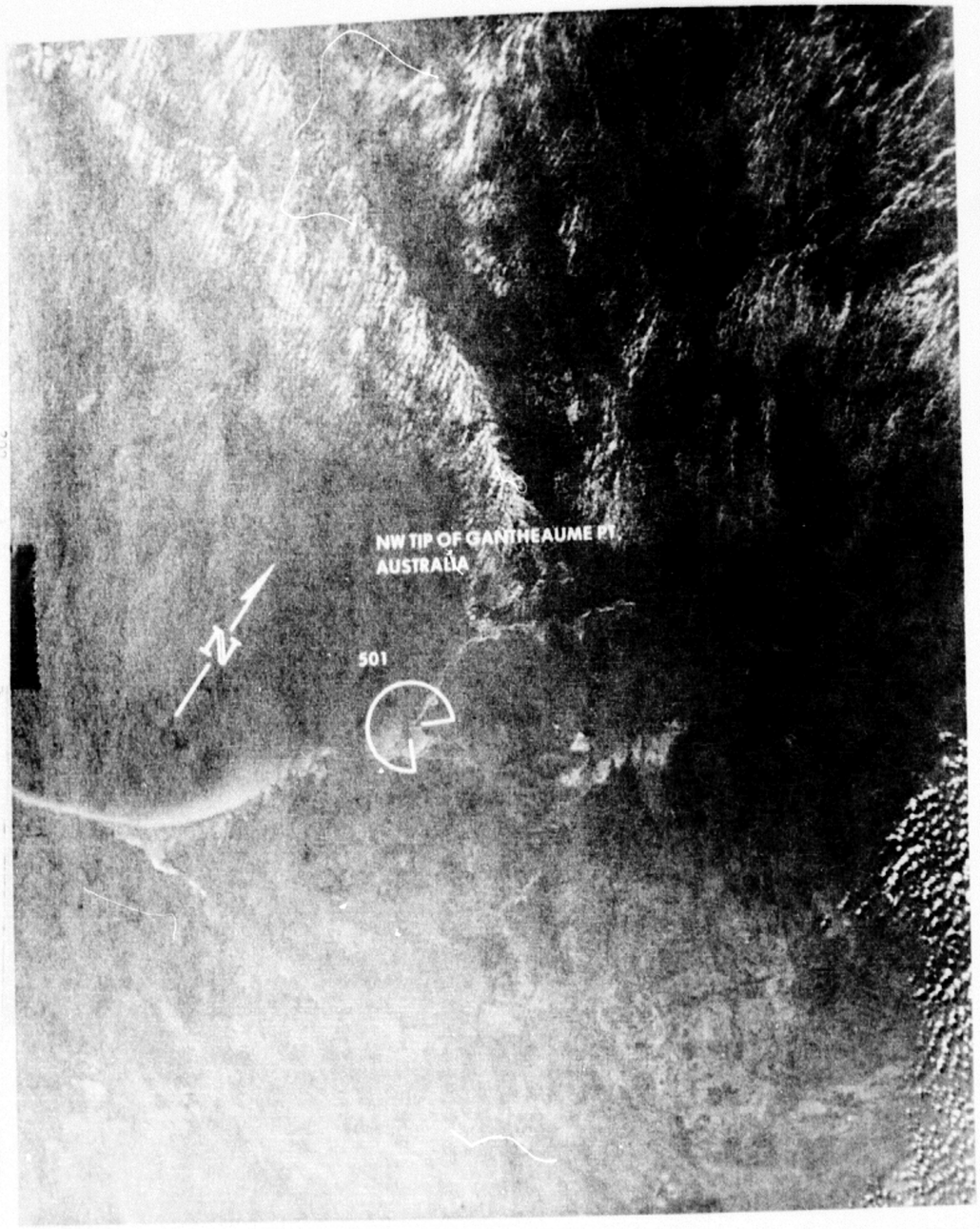


L.M. NO	± GEODETIC LAT TO .001°	± GEODETIC LONG .2 TO .001°	± GEODETIC LONG TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
301	20.694° N	29.444° E	58.888° E	+0.01	±0.59
302	22.534° N	29.401° E	59.802° E	-0.01	±0.25

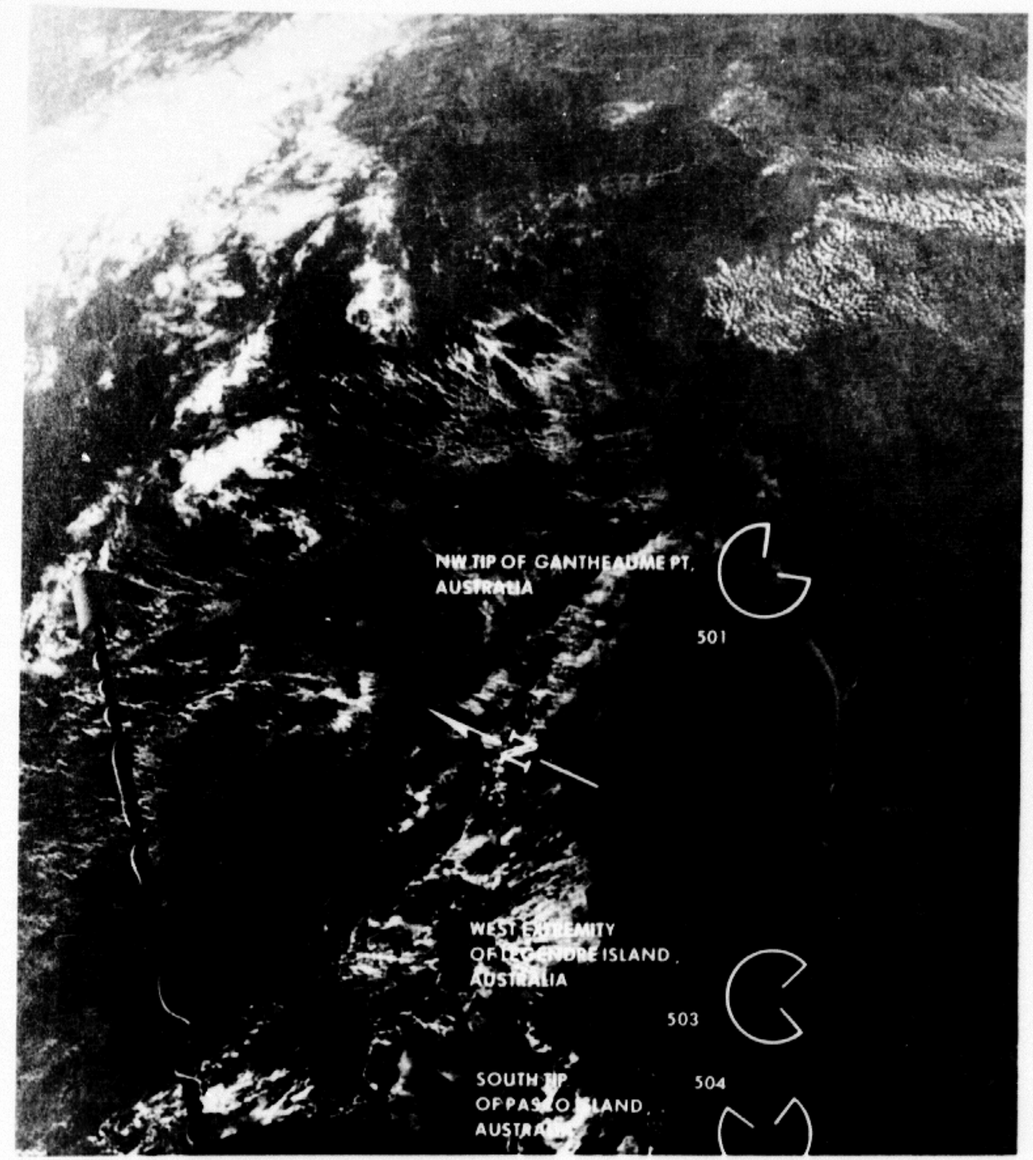


L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
302	22.534° N	29.401° E	59.802° E	+0.01	±0.25

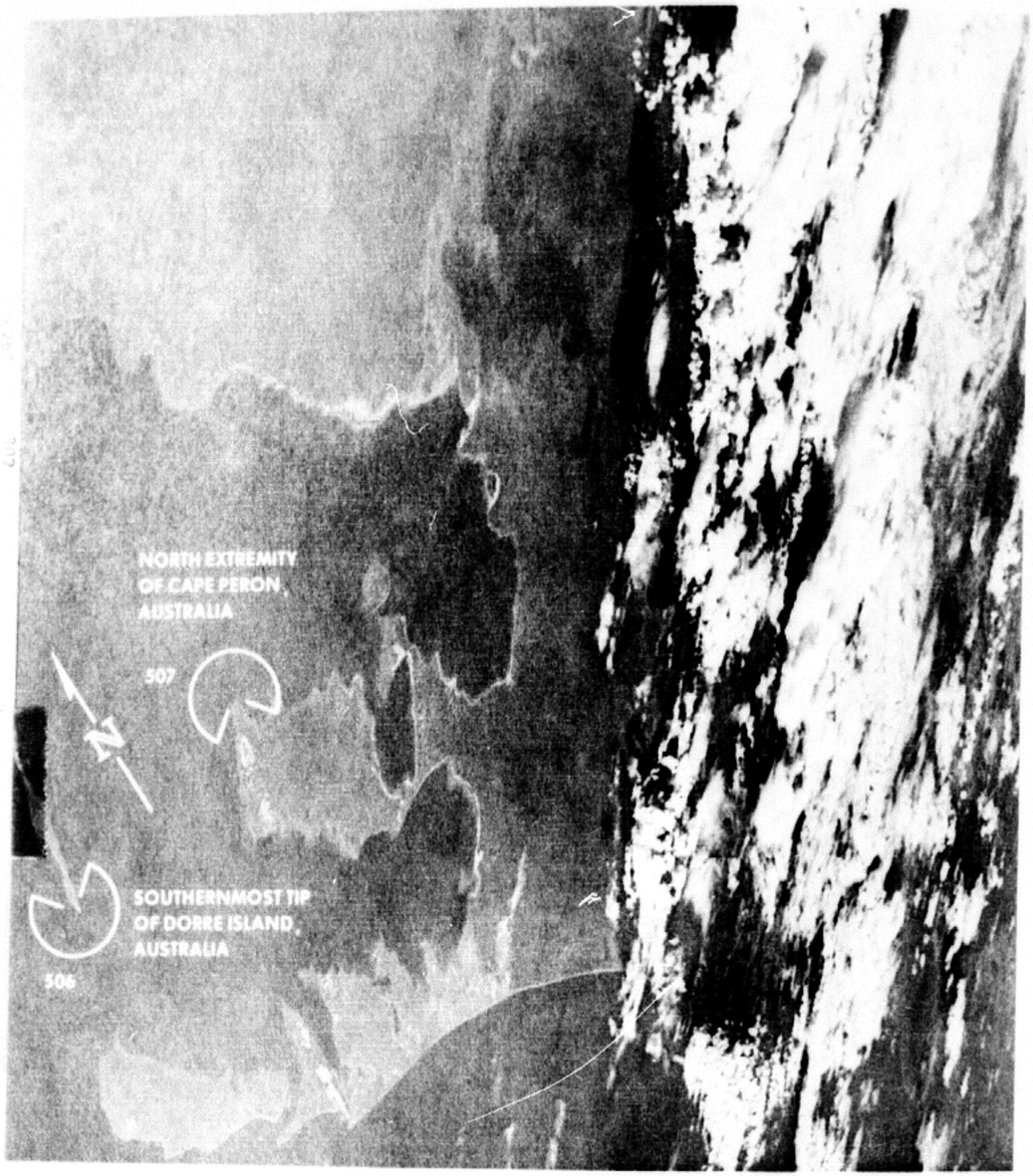
L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
428	16.029° N	60.995° E	121.990° E	0	±0.14



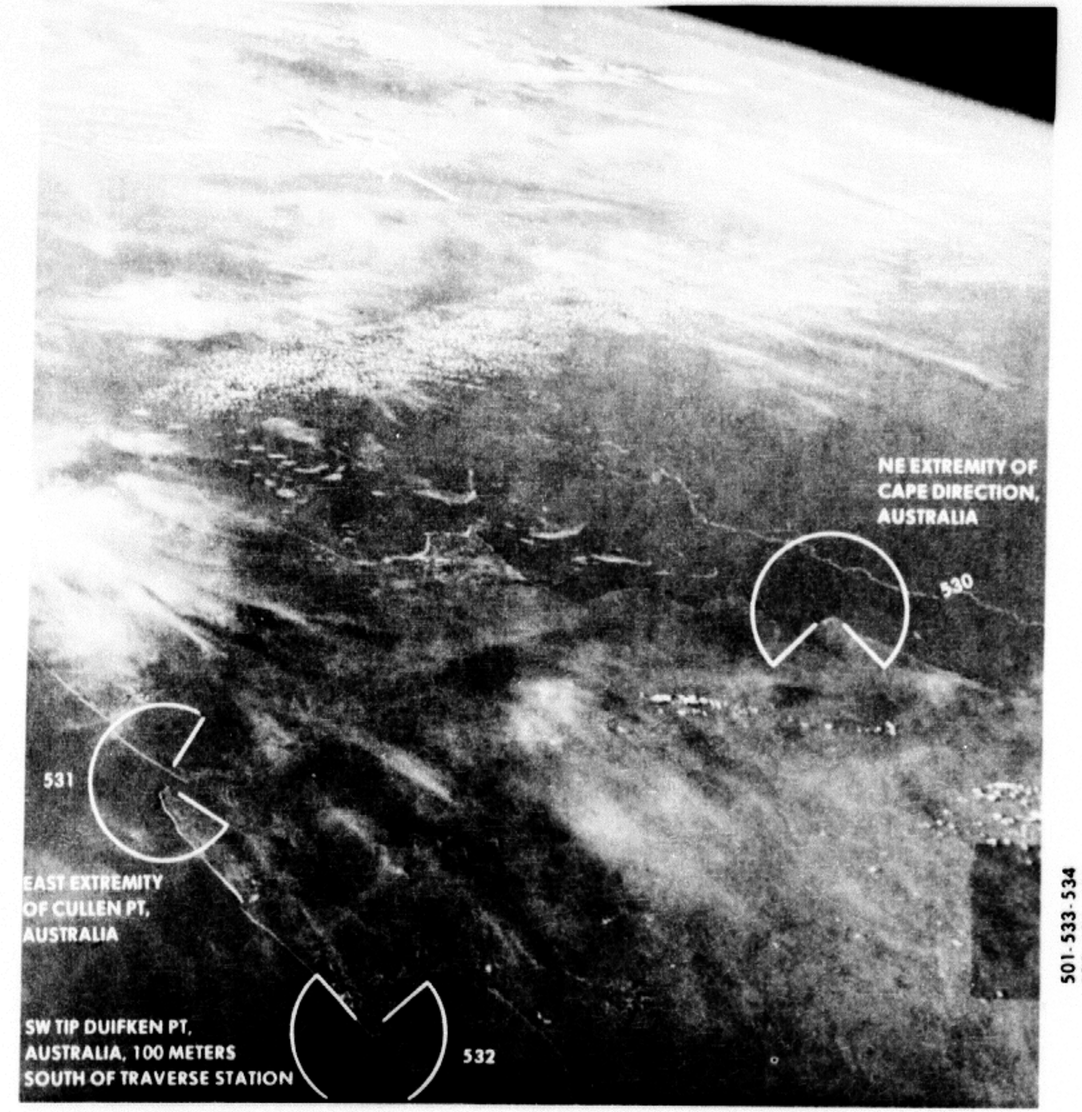
L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
501	17.975° S	61.087° E	122.174° E	0	±0.15



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

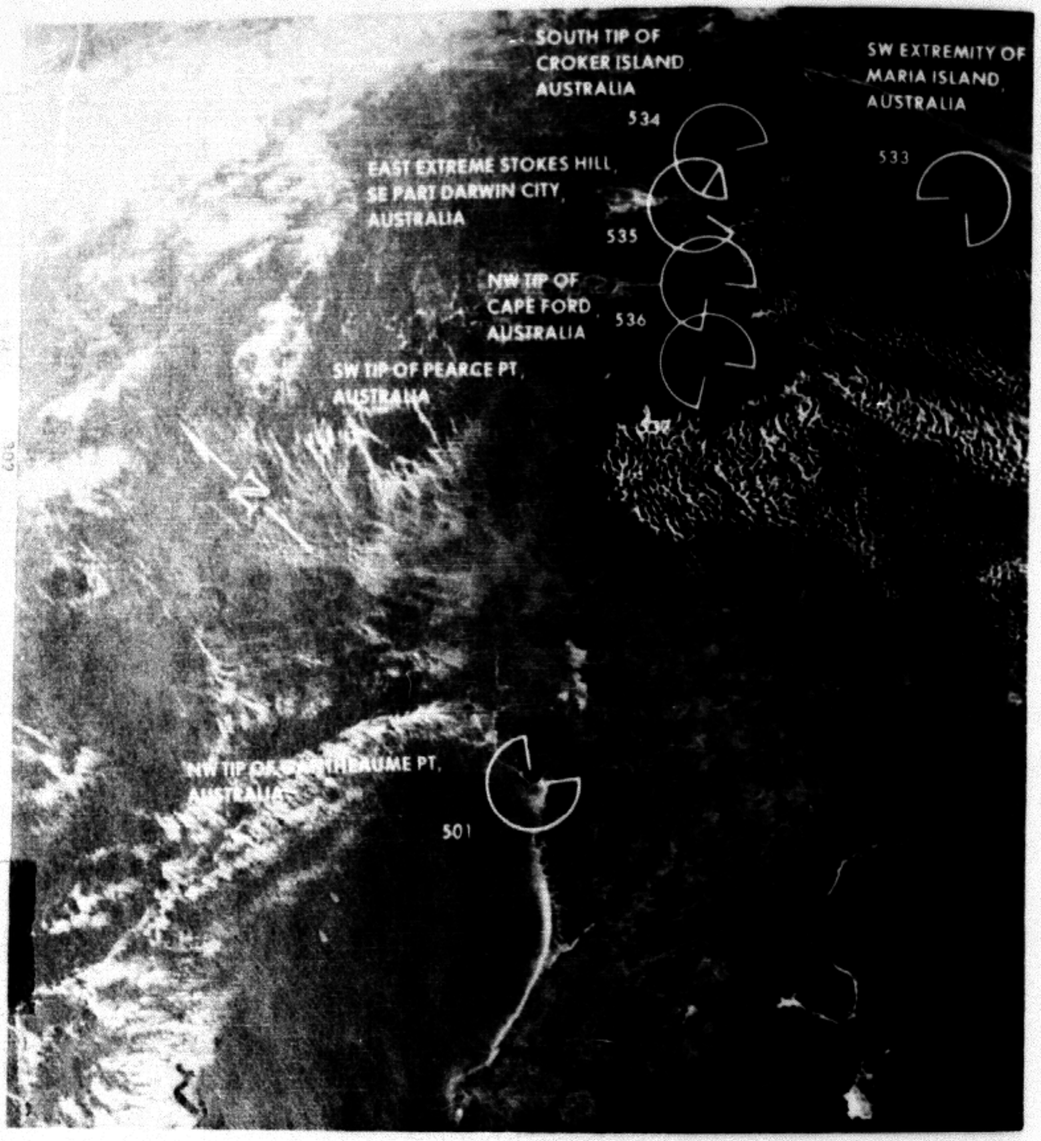


L. M. NO.	± GEODETIC LAT. TO .001°	± GEODETIC LONG./2 TO .001°	± GEODETIC LONG. TO .001°	ELEVATION FROM FISHER ELLIPSOID .01 N. MI.	HORIZONTAL UNCERTAINTY .01 N. MI.
506	25.296° S	56.537° E	113.074° E	0	±0.29
507	25.525° S	56.759° E	113.517° E	0	±0.29



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

501-533-534
535-536-537



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

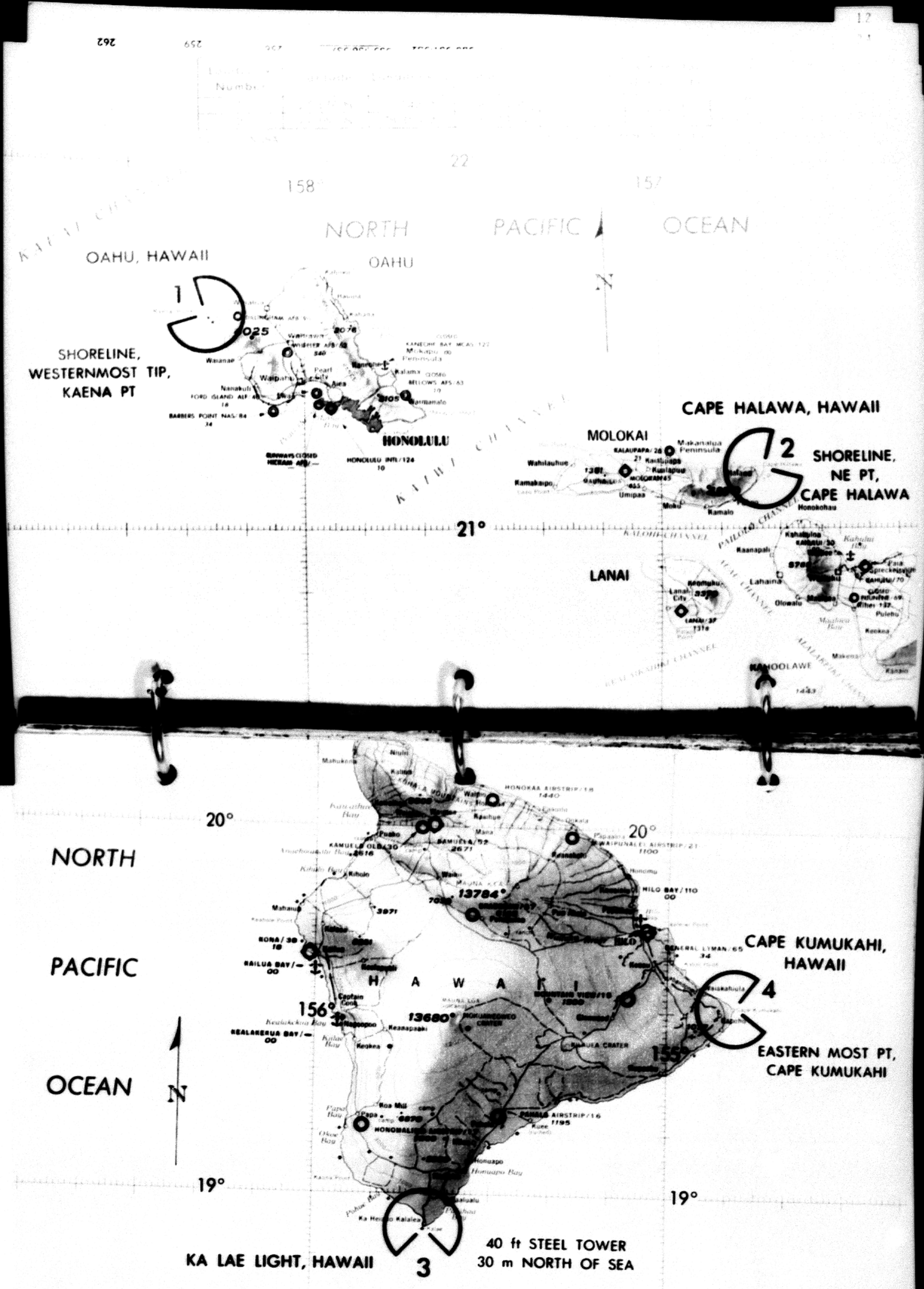
SCALE 1:1,000,000
LATITUDE AND LONGITUDE TO .001°
ELEVATION AND HORIZONTAL UNCERTAINTY TO .01 NM

ELEVATIONS REFERENCED TO FISCHER ELLIPSOID

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

Edition 1—NASA

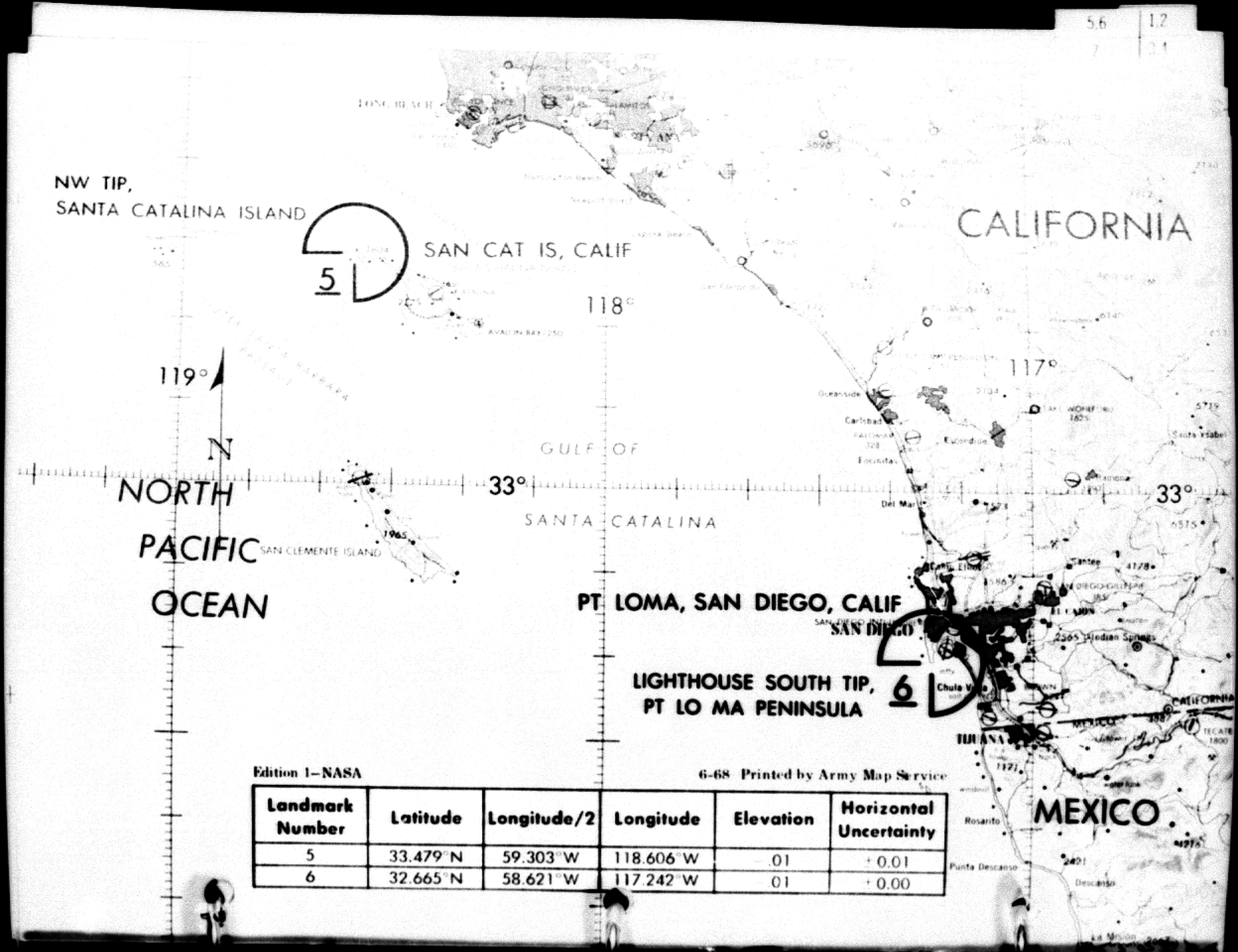
6-68 Printed by Army Map Service



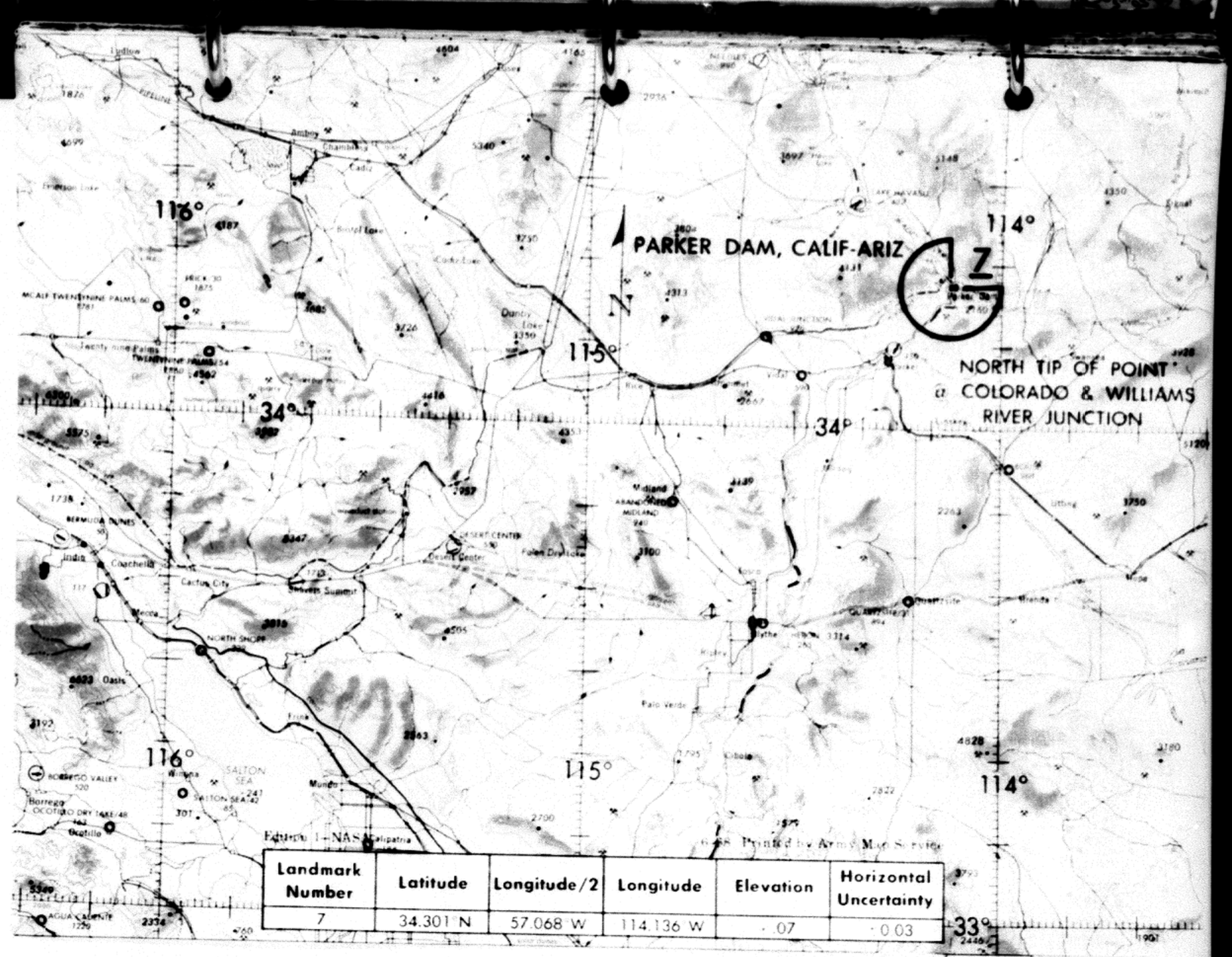
Edition 1—NASA

6-68 Printed by Army Map Service

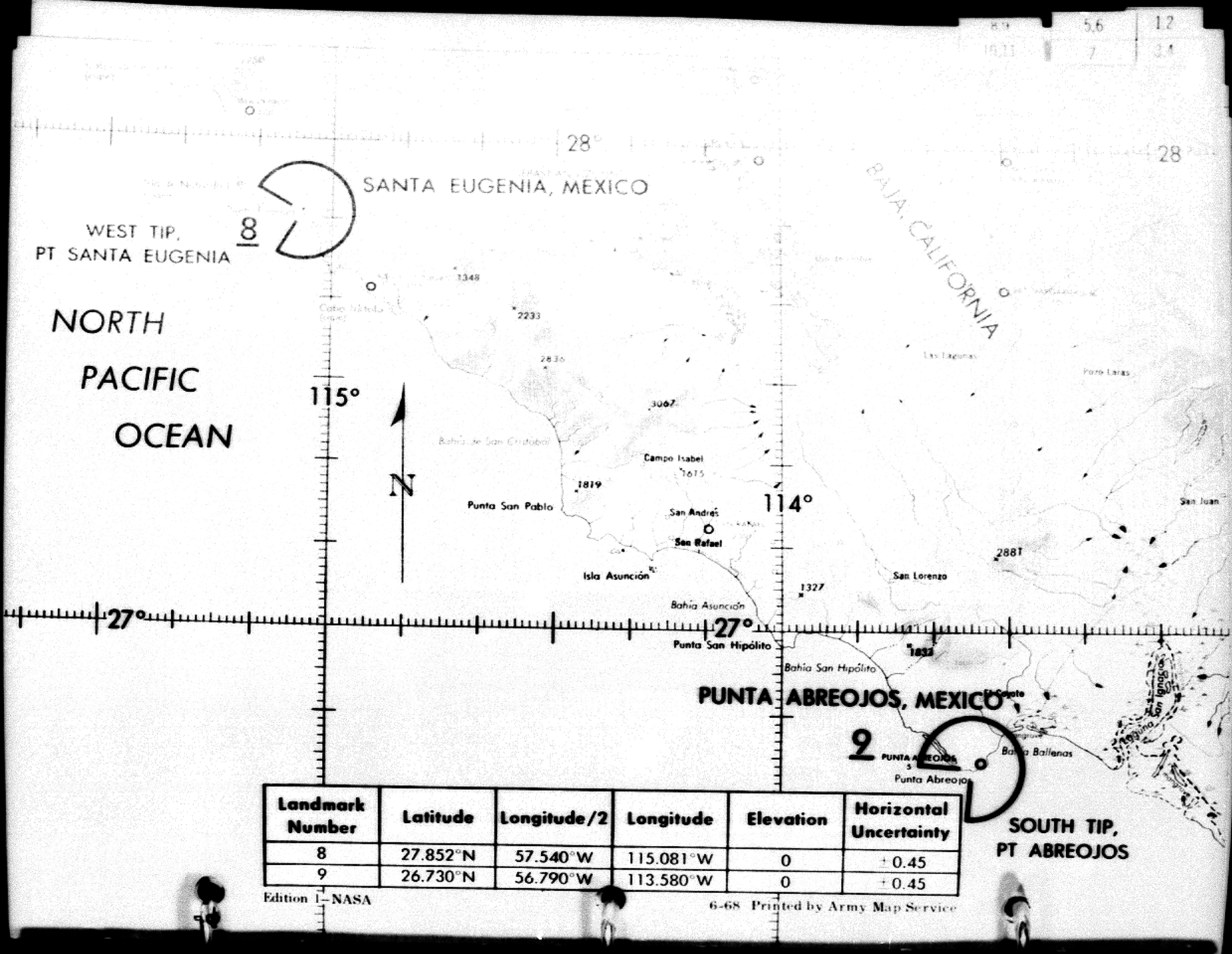
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
3	18.915 N	77.842 W	155.685 W	0.00	±0.12
4	19.520 N	77.405 W	154.810 W	0.00	±0.17



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

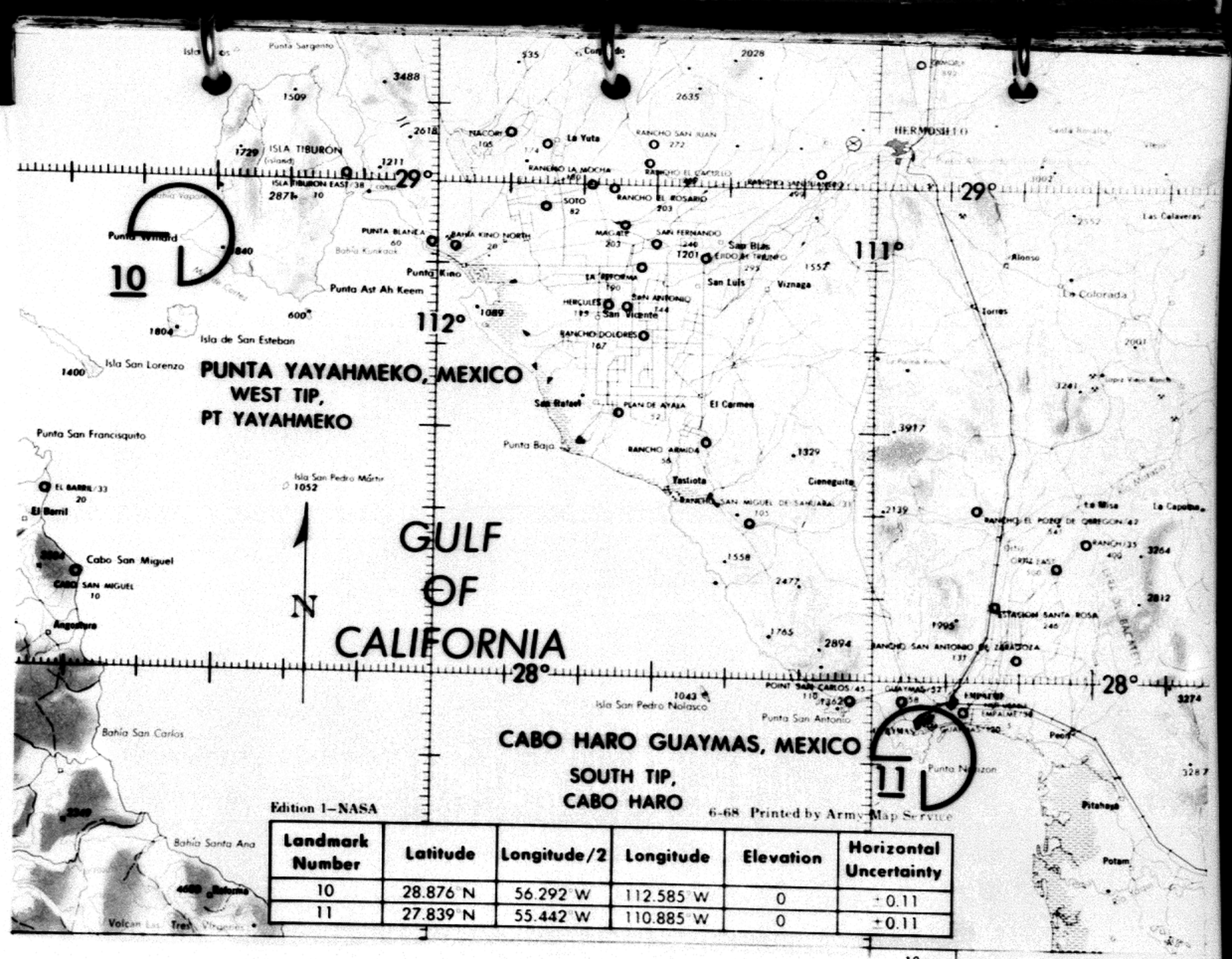


Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
7	34.301°N	57.068°W	114.136°W	±.07	±0.03



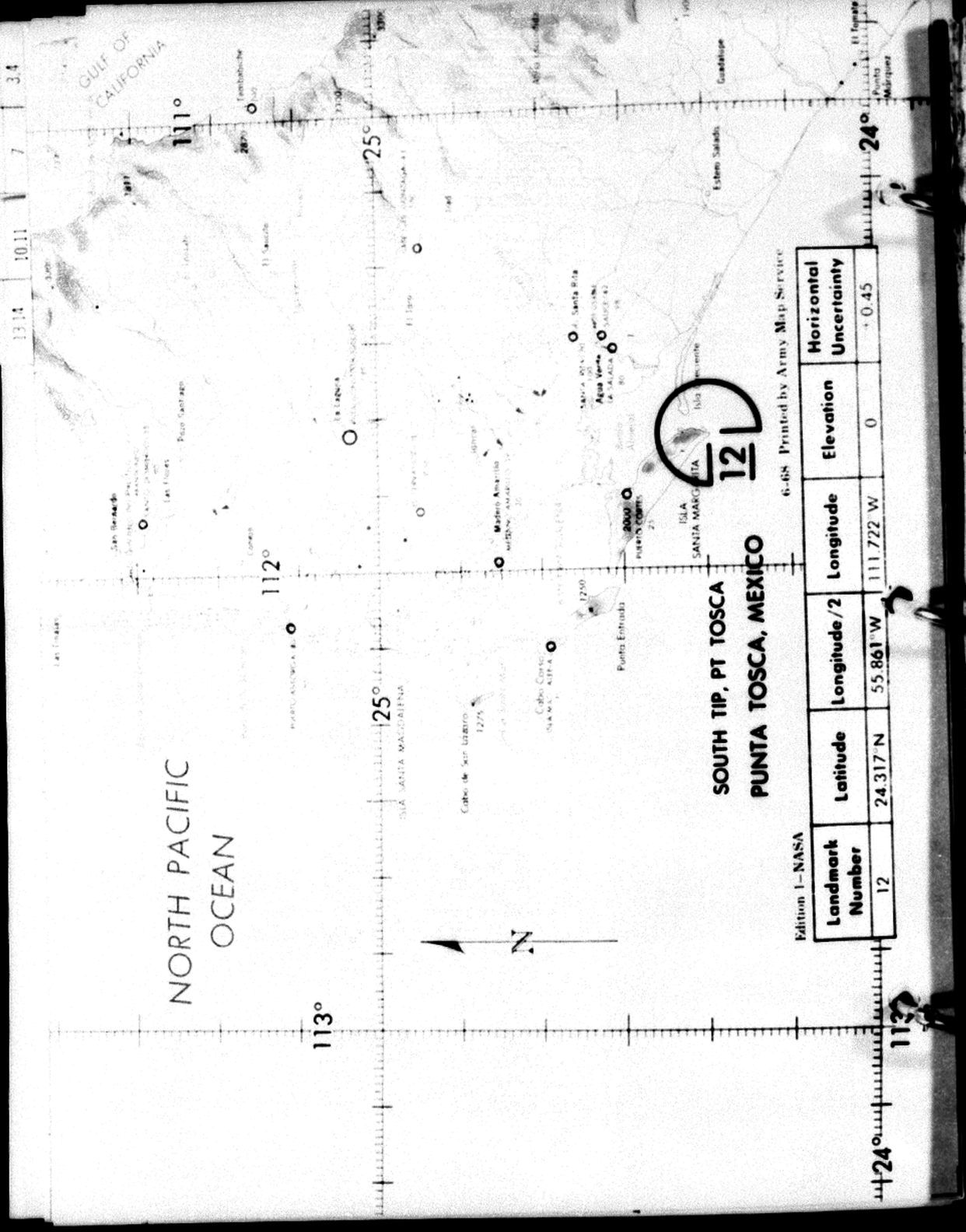
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
8	27.852°N	57.540°W	115.081°W	0	±0.45
9	26.730°N	56.790°W	113.580°W	0	±0.45

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



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

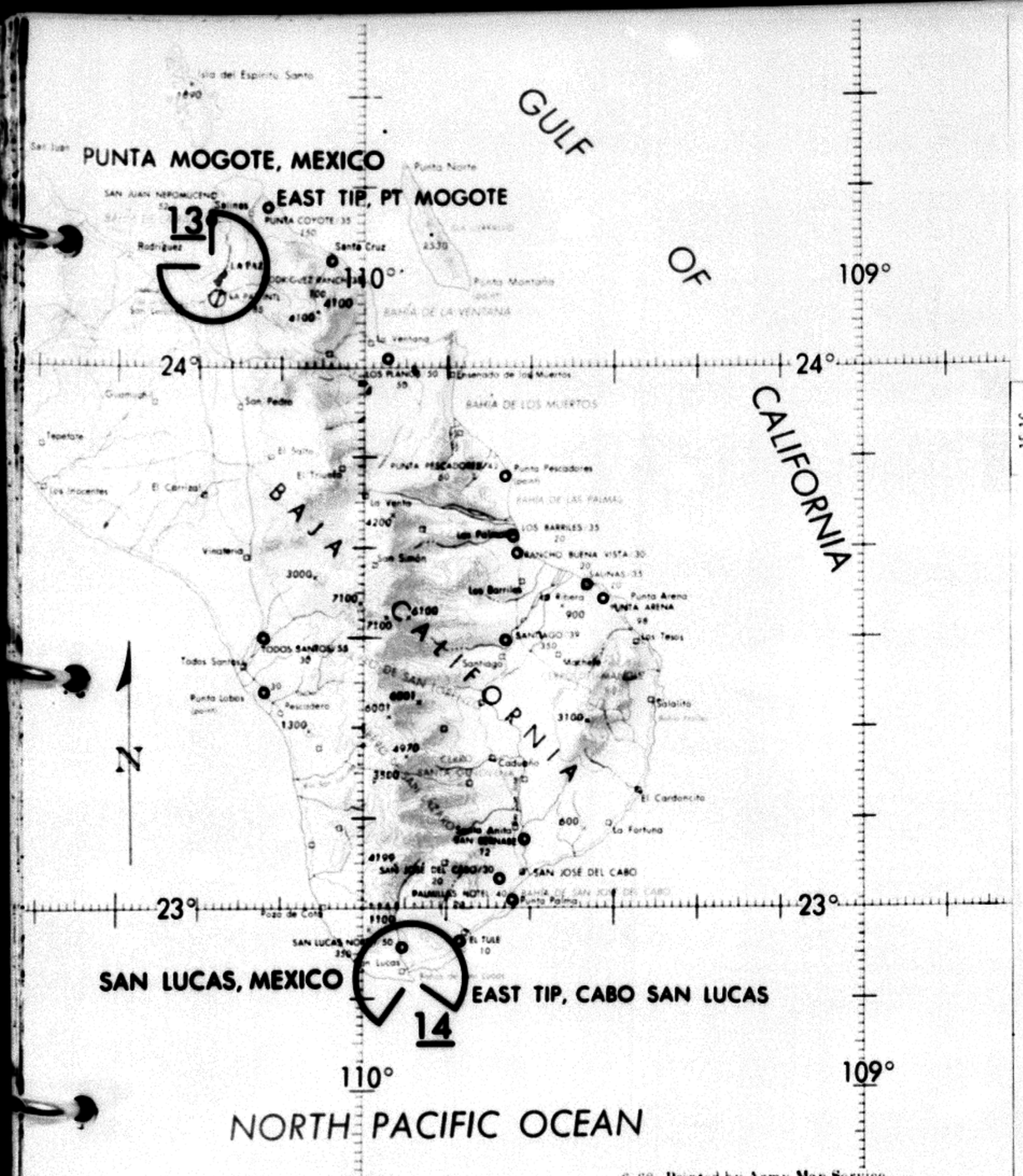
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
10	28.876 N	56.292 W	112.585 W	0	±0.11
11	27.839 N	55.442 W	110.885 W	0	±0.11



Edition 1–NASA

6-68 Printed by Army Map Service

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



Edition 1–NASA

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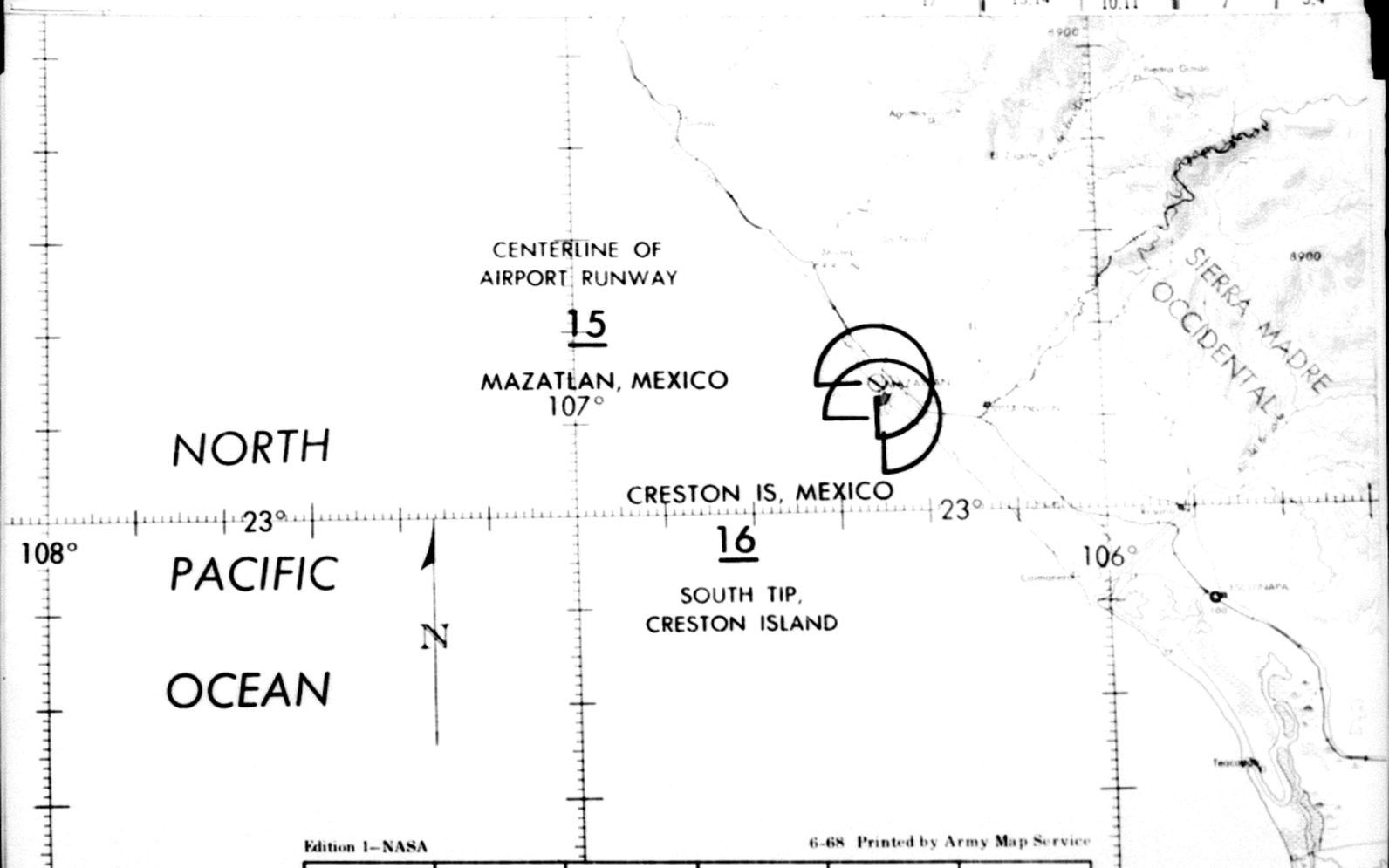
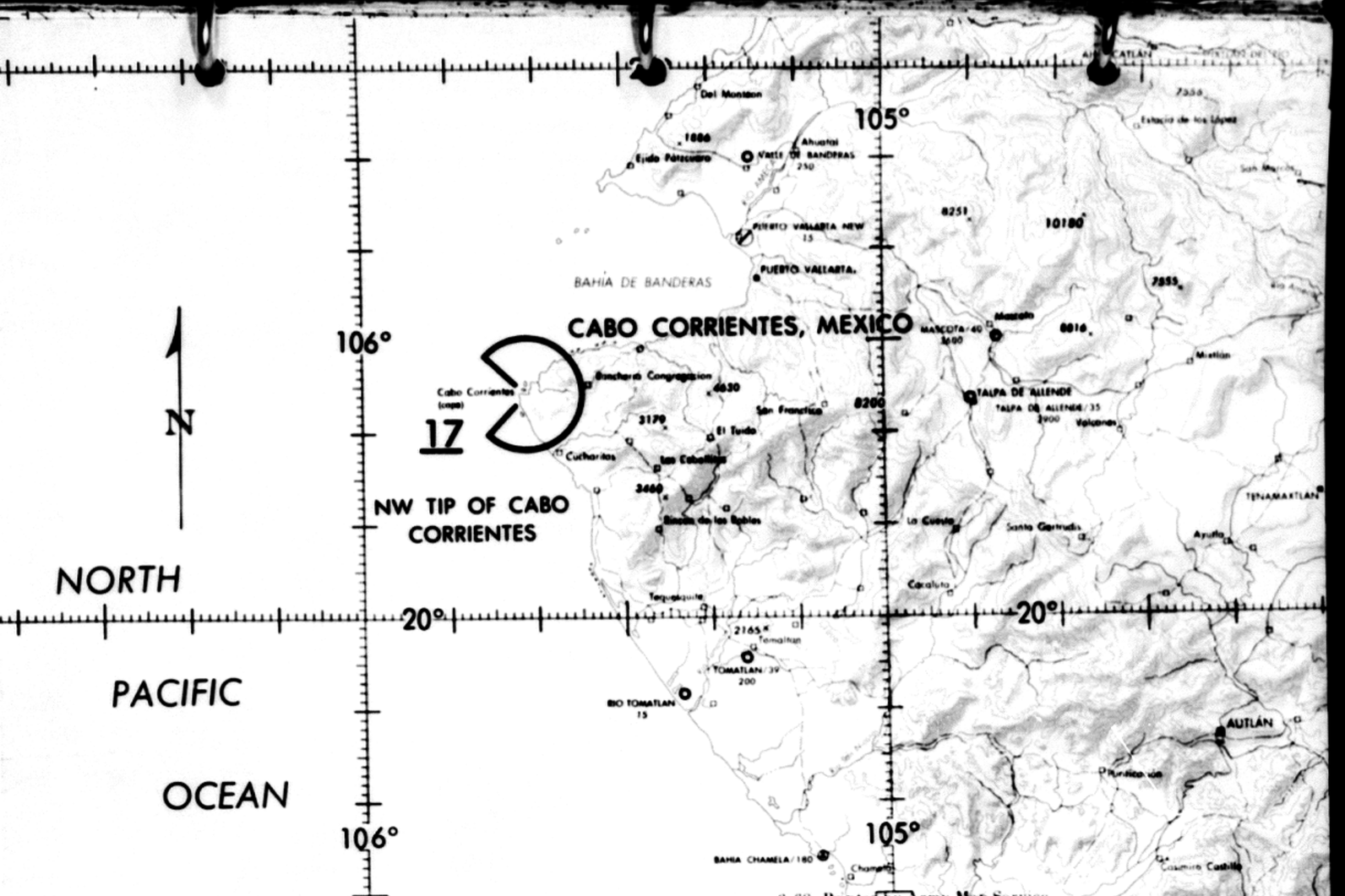
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
13	24.180°N	55.150°W	110.300°W	0.00	±0.45
14	22.871°N	54.946°W	109.892°W	0.00	±0.45



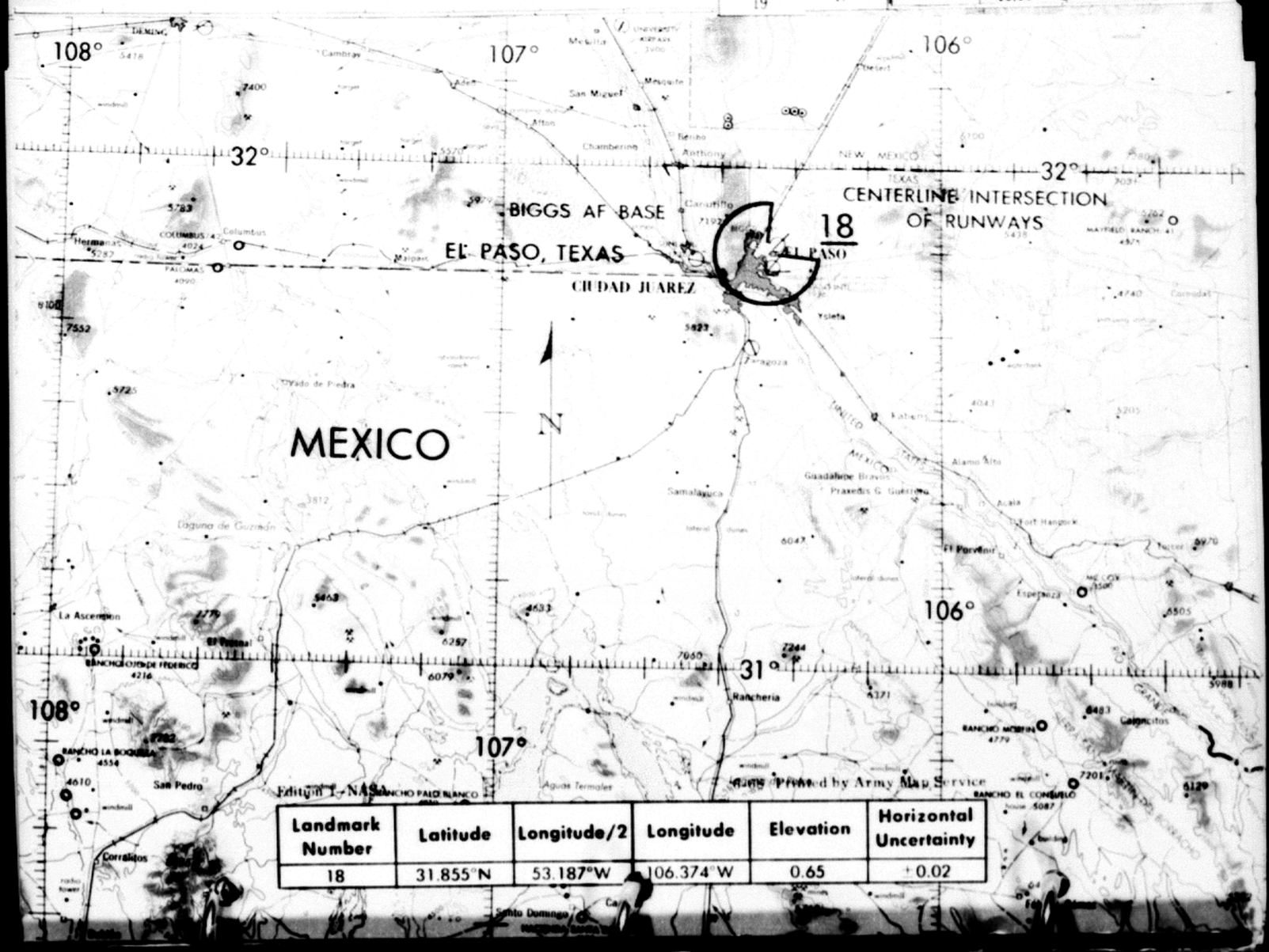
Edition 1–NASA 6-68 Printed by Army Map Service

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

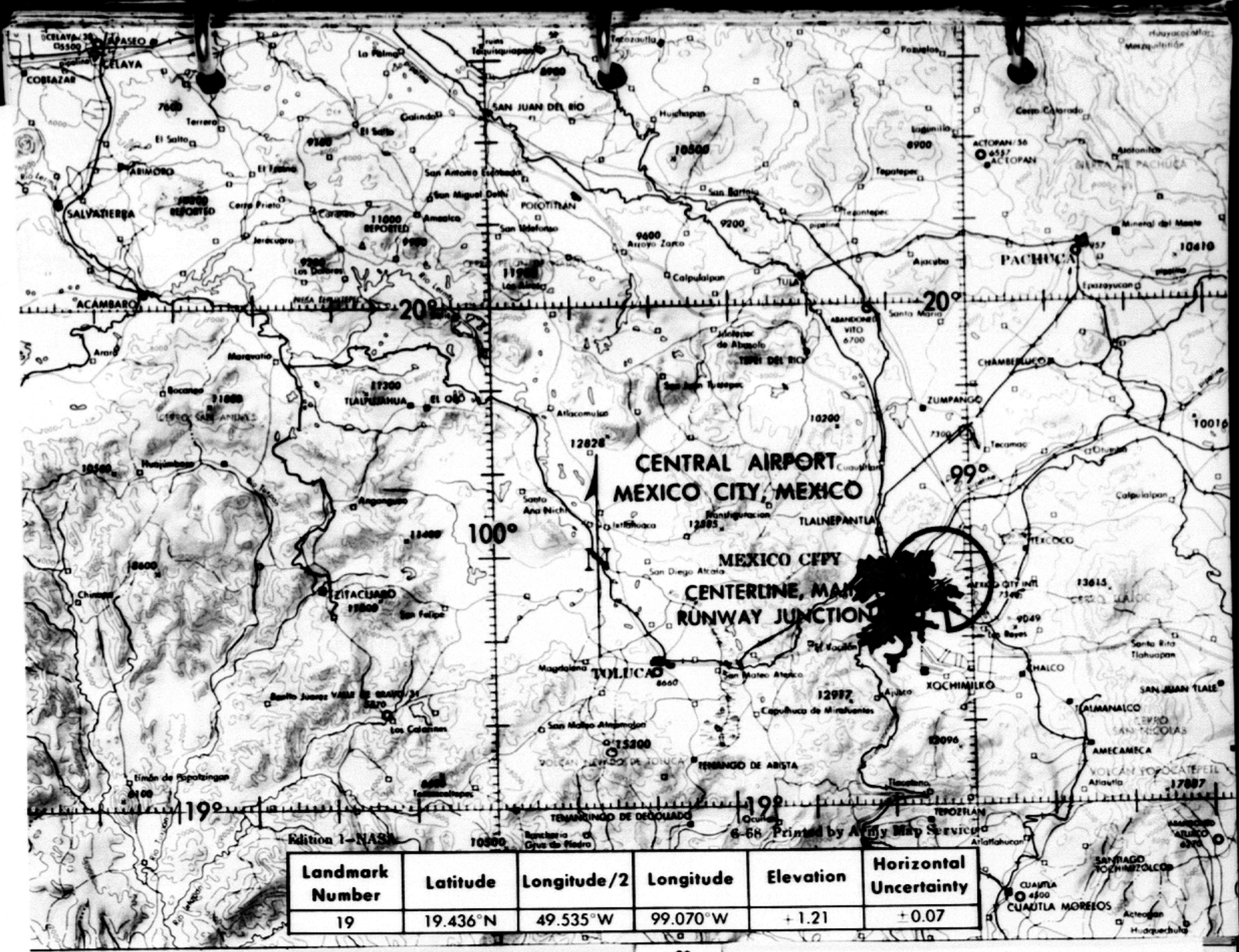


Edition 1–NASA 6-68 Printed by Army Map Service

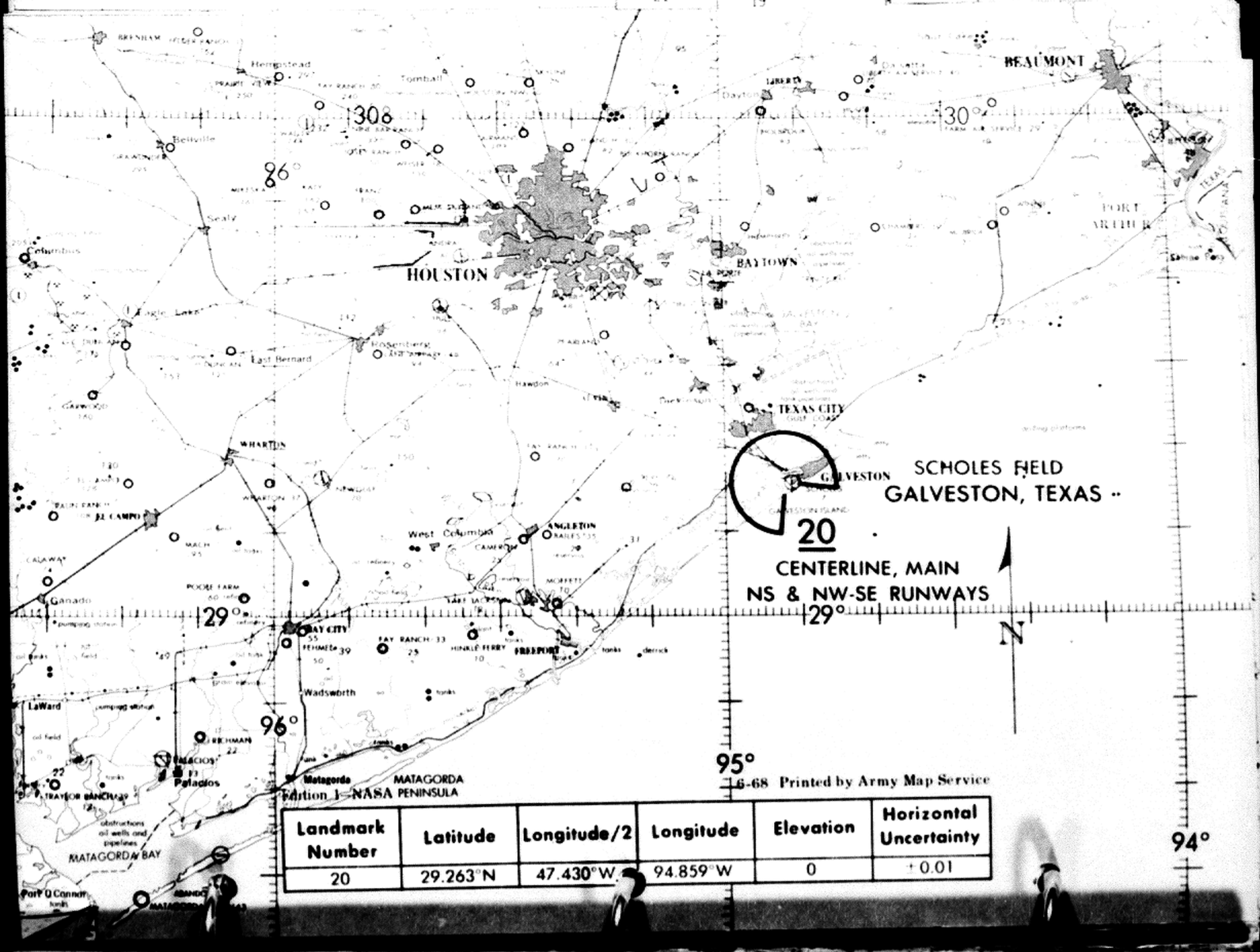
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
17	20.406°N	52.852°W	105.703°W	0	±0.23



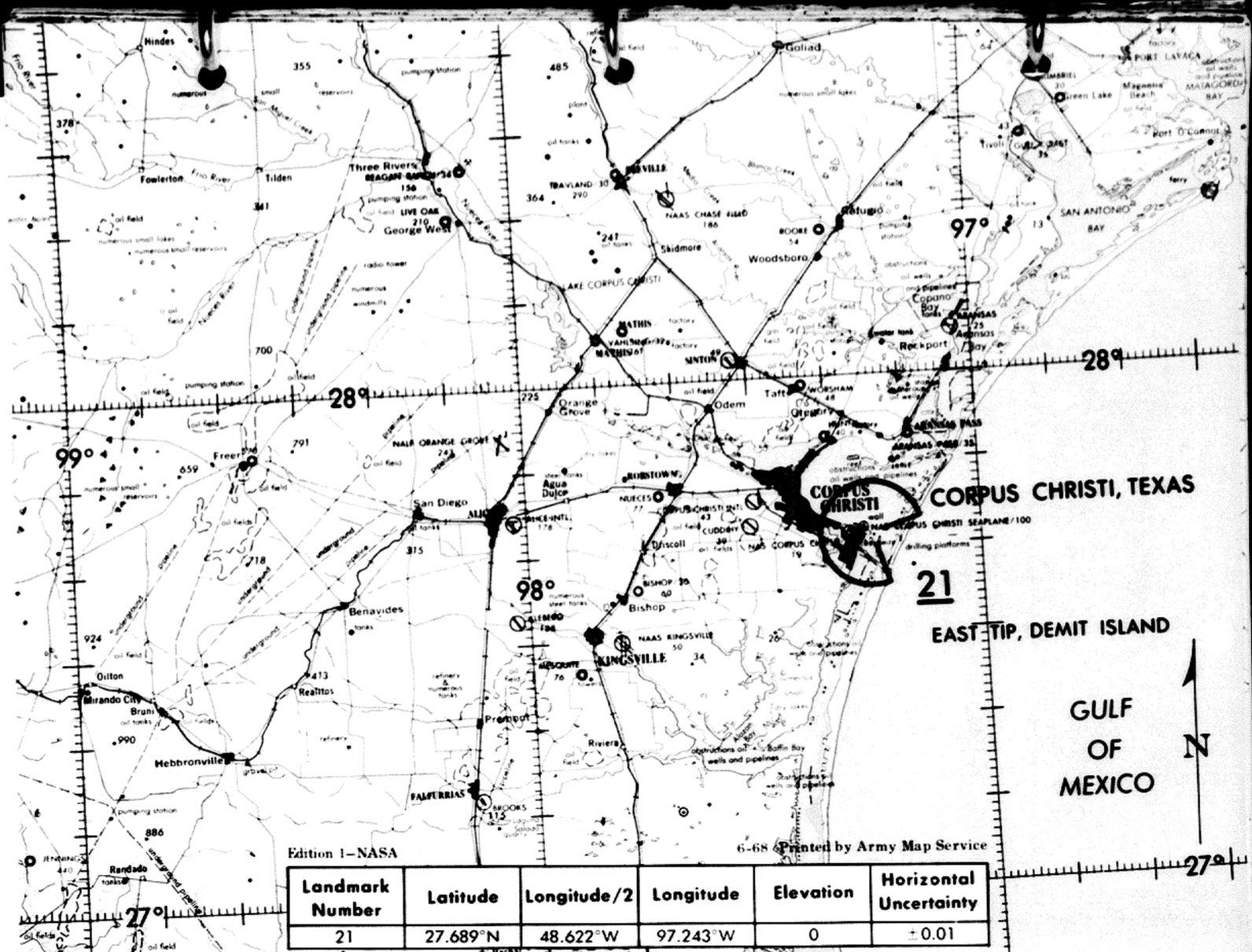
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
18	31.855°N	53.187°W	106.374°W	0.65	±0.02



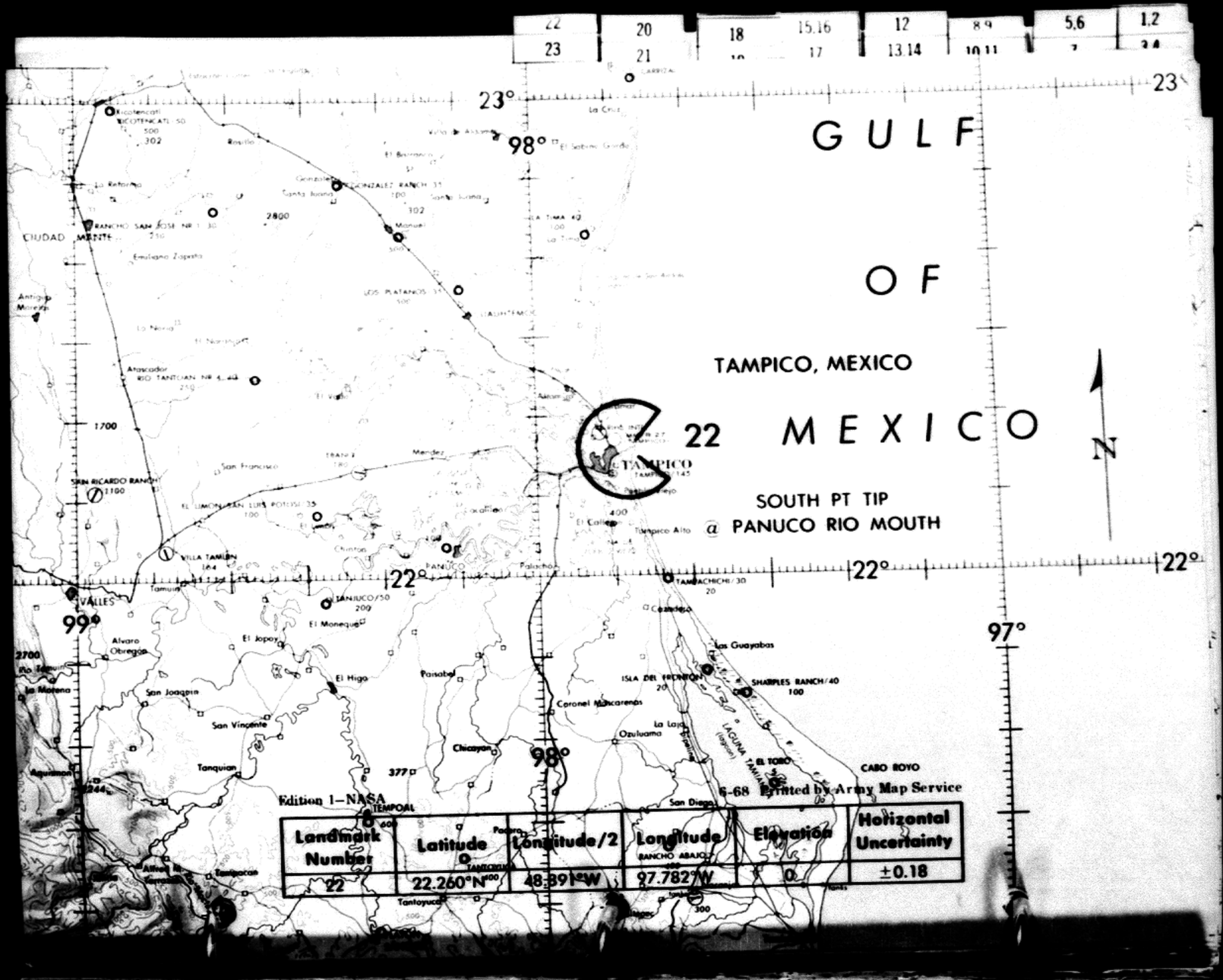
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
19	19.436°N	49.535°W	99.070°W	+1.21	±0.07



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

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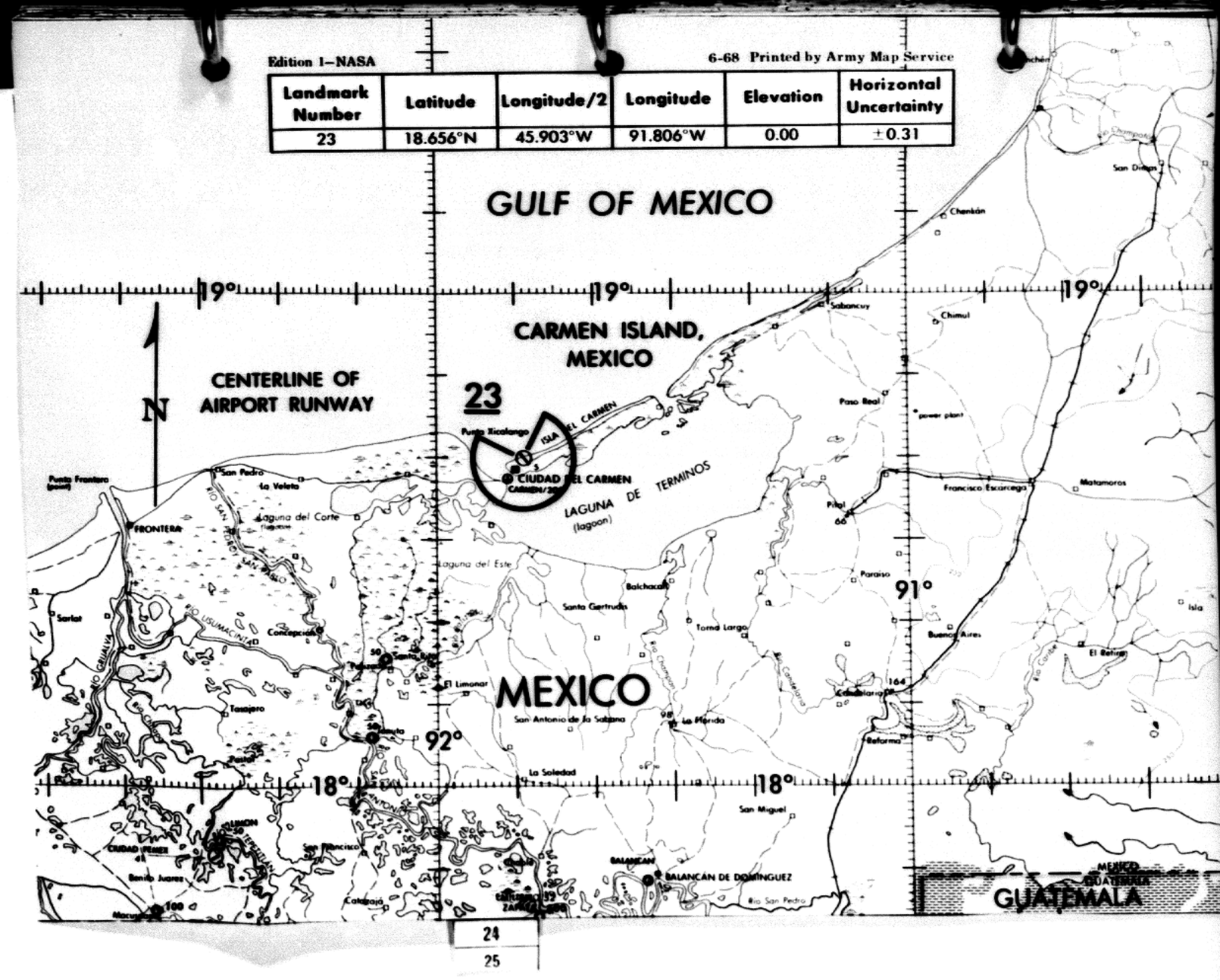
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
23	18.656°N	45.903°W	91.806°W	0.00	±0.31



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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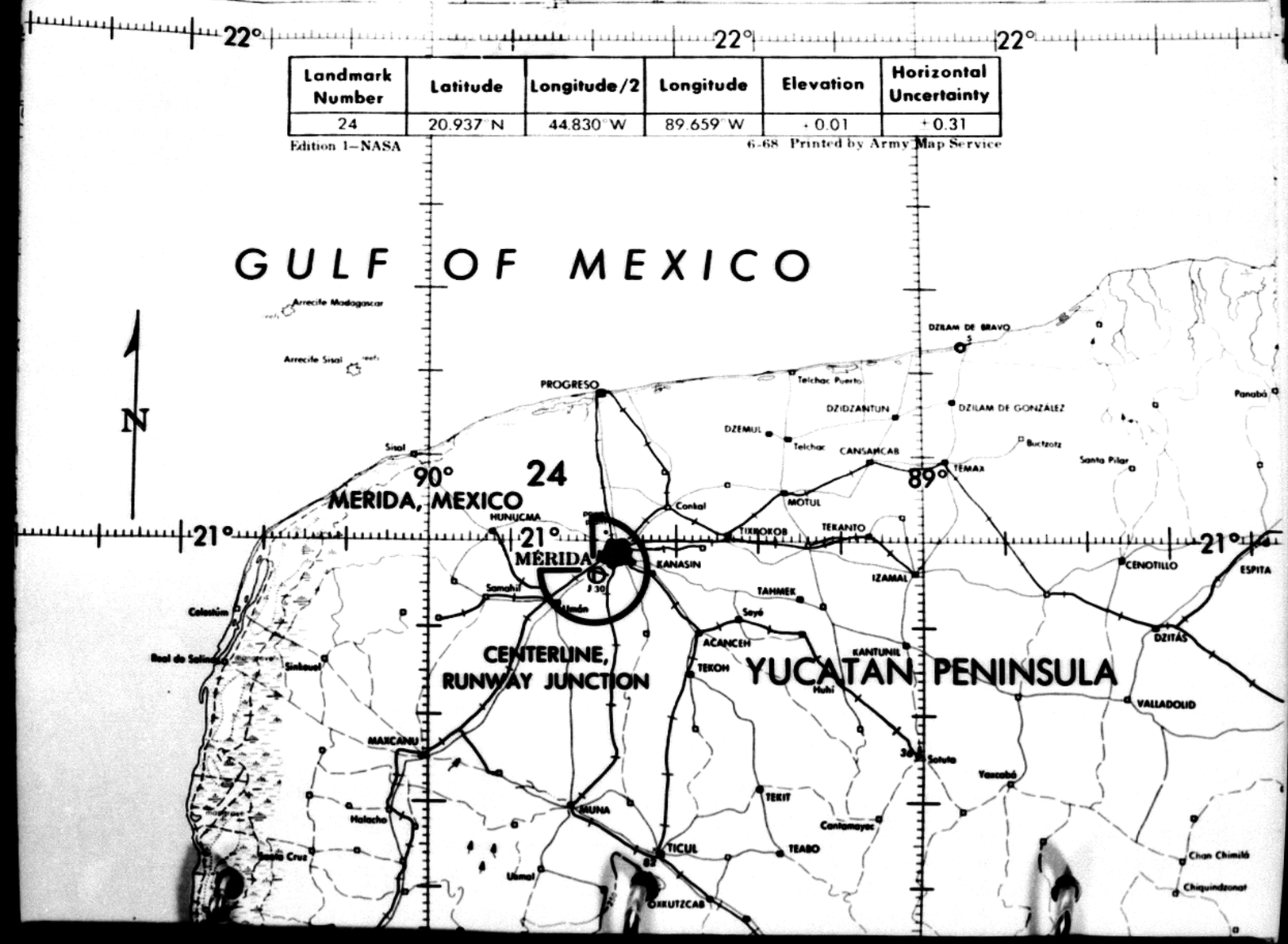

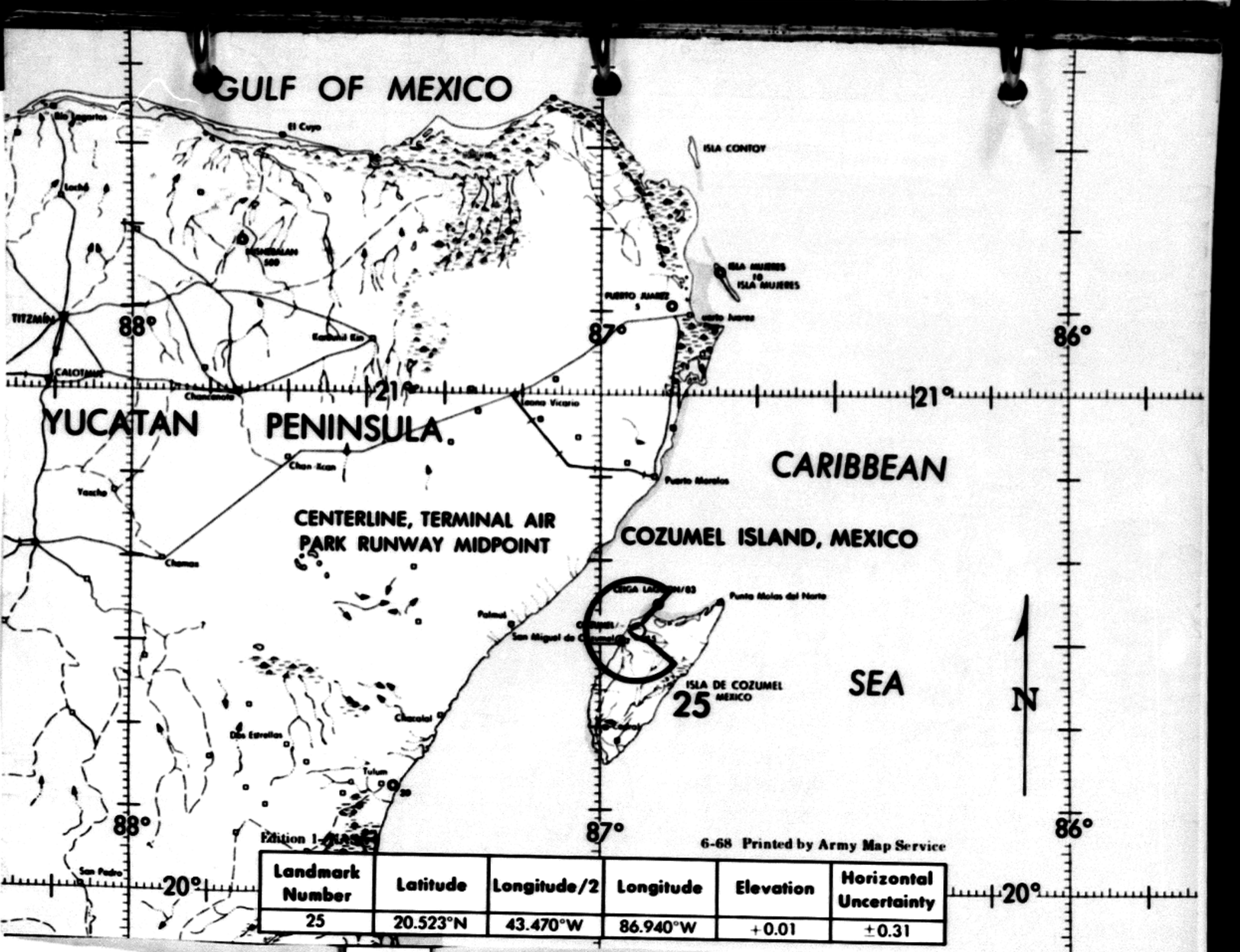

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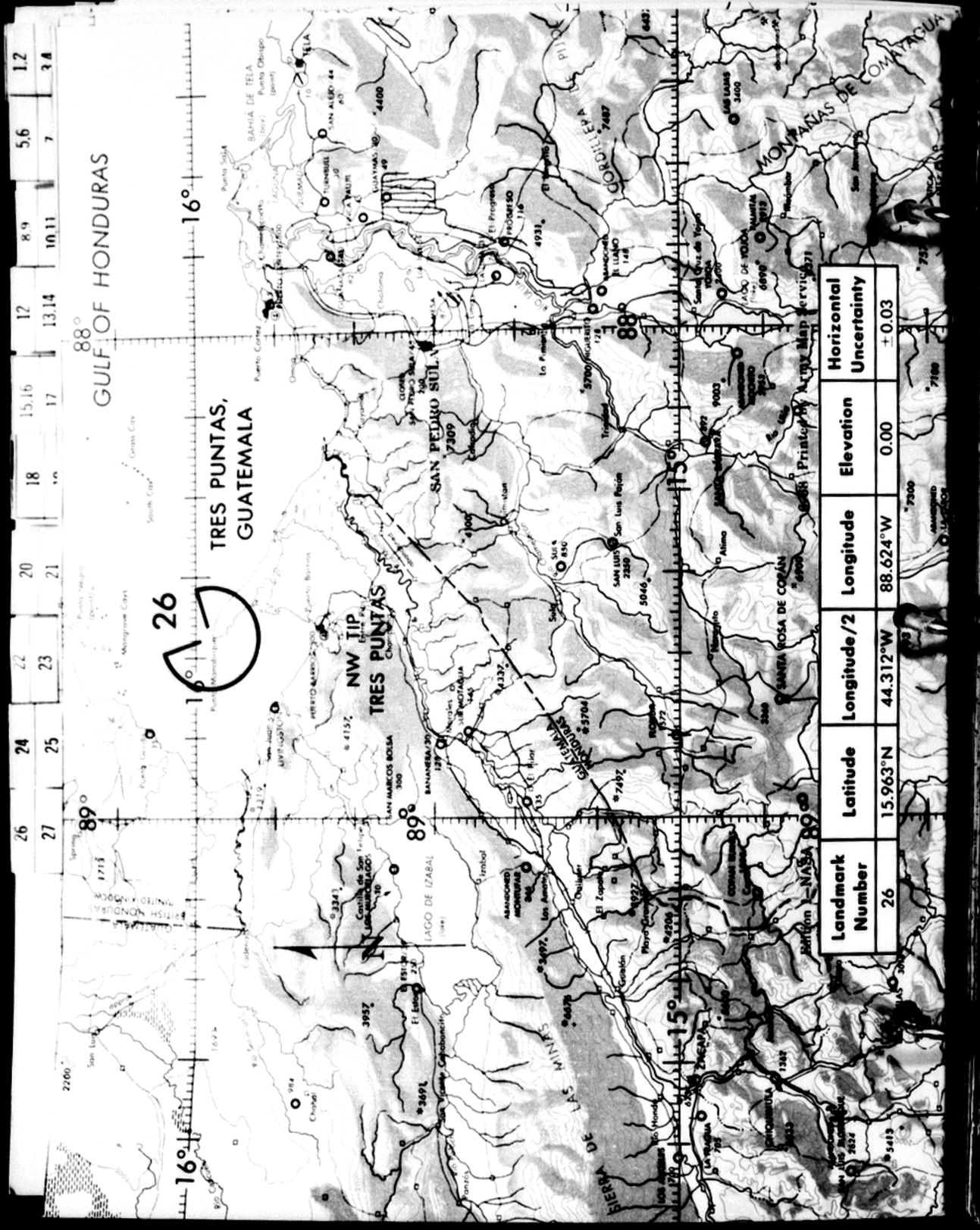
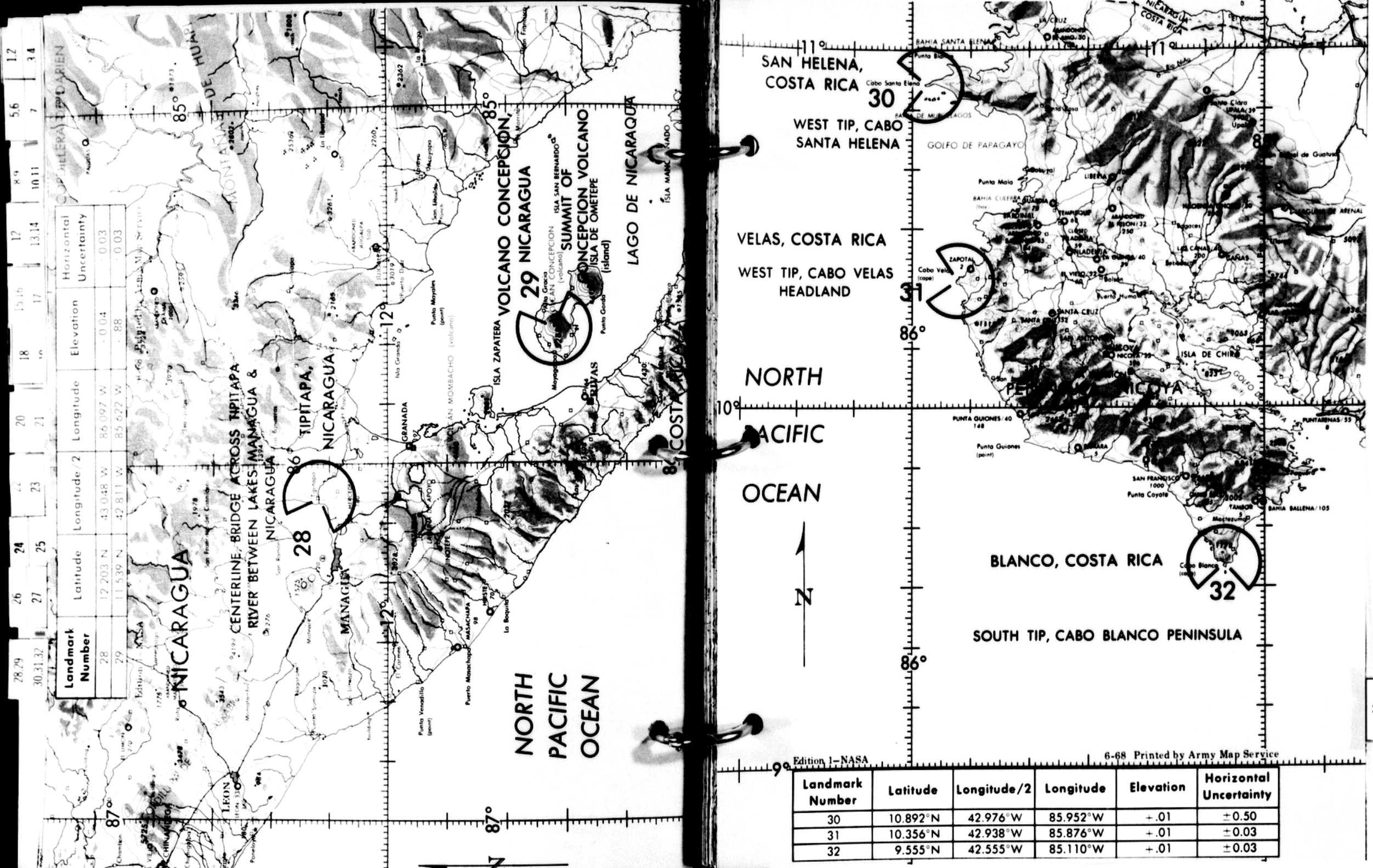
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
25	20.523°N	43.470°W	86.940°W	+0.01	±0.31

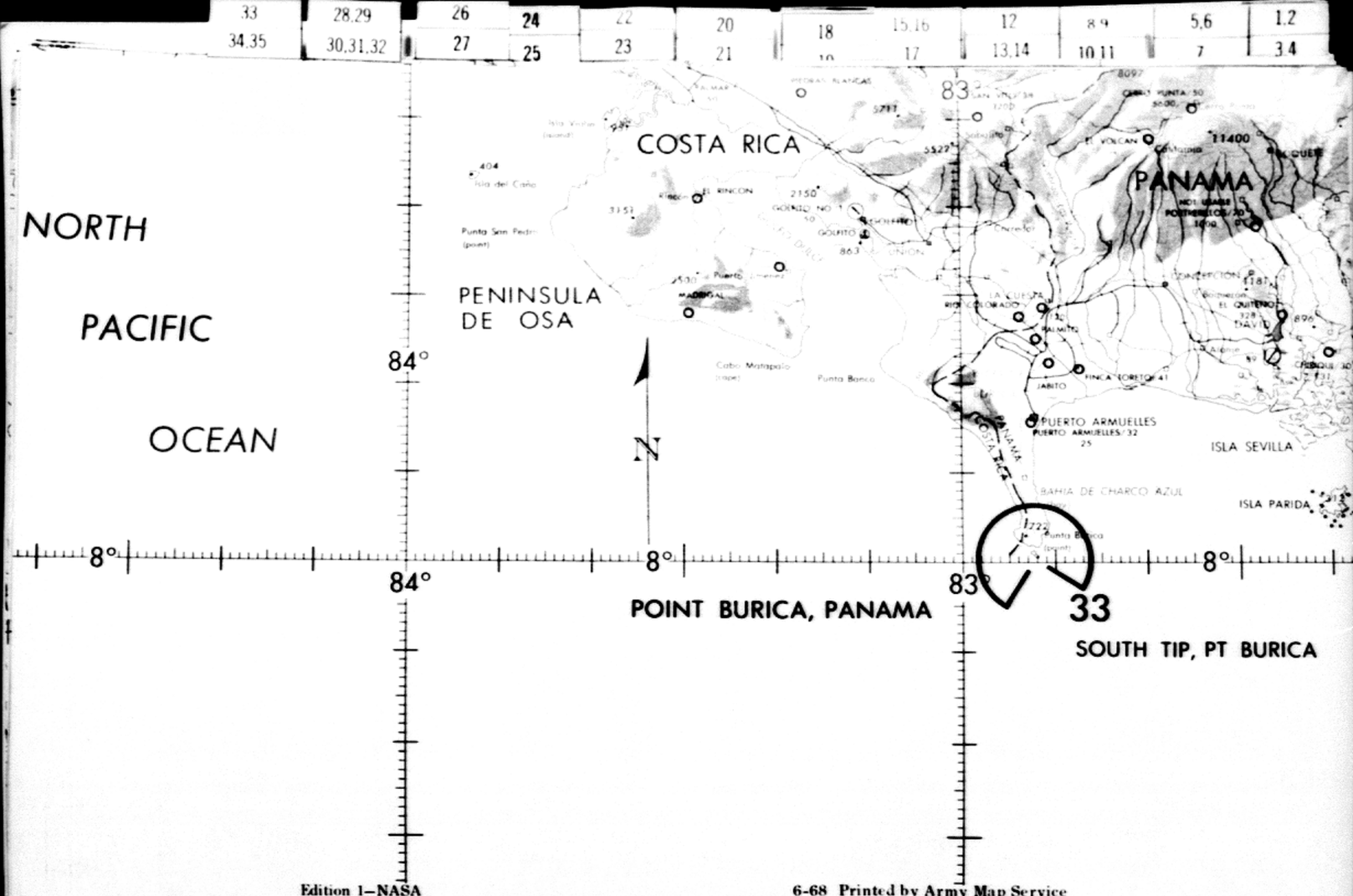
26

27


GULF OF HONDURAS
TRES PUNTAS, GUATEMALA
NW TIP TRES PUNTAS
SAN PEDRO SULA
MONTAÑAS DE COMAYAGUA
CORDILLERA PIJOL
SIERRA DE LAS MINAS
LAGO DE IZABAL
BAHIA DE TELA
Puerto Cortes
Tela
Punta Sal
Punta Obispo
Cayos Cochinos
Cayos Zacate Grande
Cayos Menjigrande
Cayos Cabo Gracias a Dios
Cayos Miskitos
Cayos Vivorillos
Cayos Perlas
Cayos Pearl
Cayos Corn
Cayos Alacranes
Cayos Serrana
Cayos Roncador
Cayos Quitasueño
Cayos Albuquerque
Cayos Bajo Nuevo
Cayos Serranilla
Cayos Providencia
Cayos Santa Catalina
Cayos Cabo Falso
Cayos Pedro
Cayos Morant
Cayos Palmetto
Cayos Jamaica
Cayos Pedro Bank
Cayos Cabo Tres Puntas
Cayos Cabo Gracias a Dios
Cayos Cabo Falso



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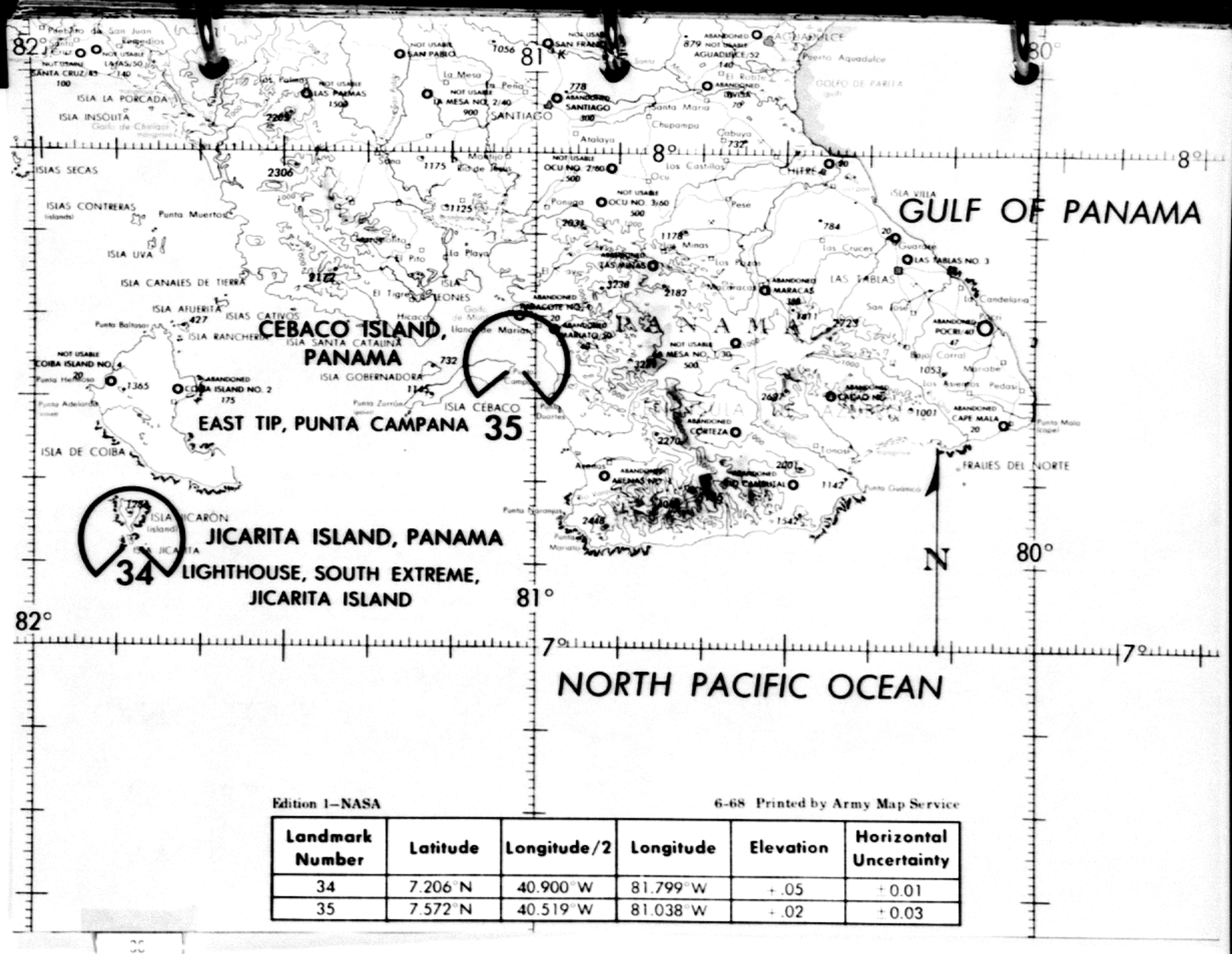
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
33	8.032°N	41.436°W	82.871°W	+.01	±0.12



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

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	±02	±0.03

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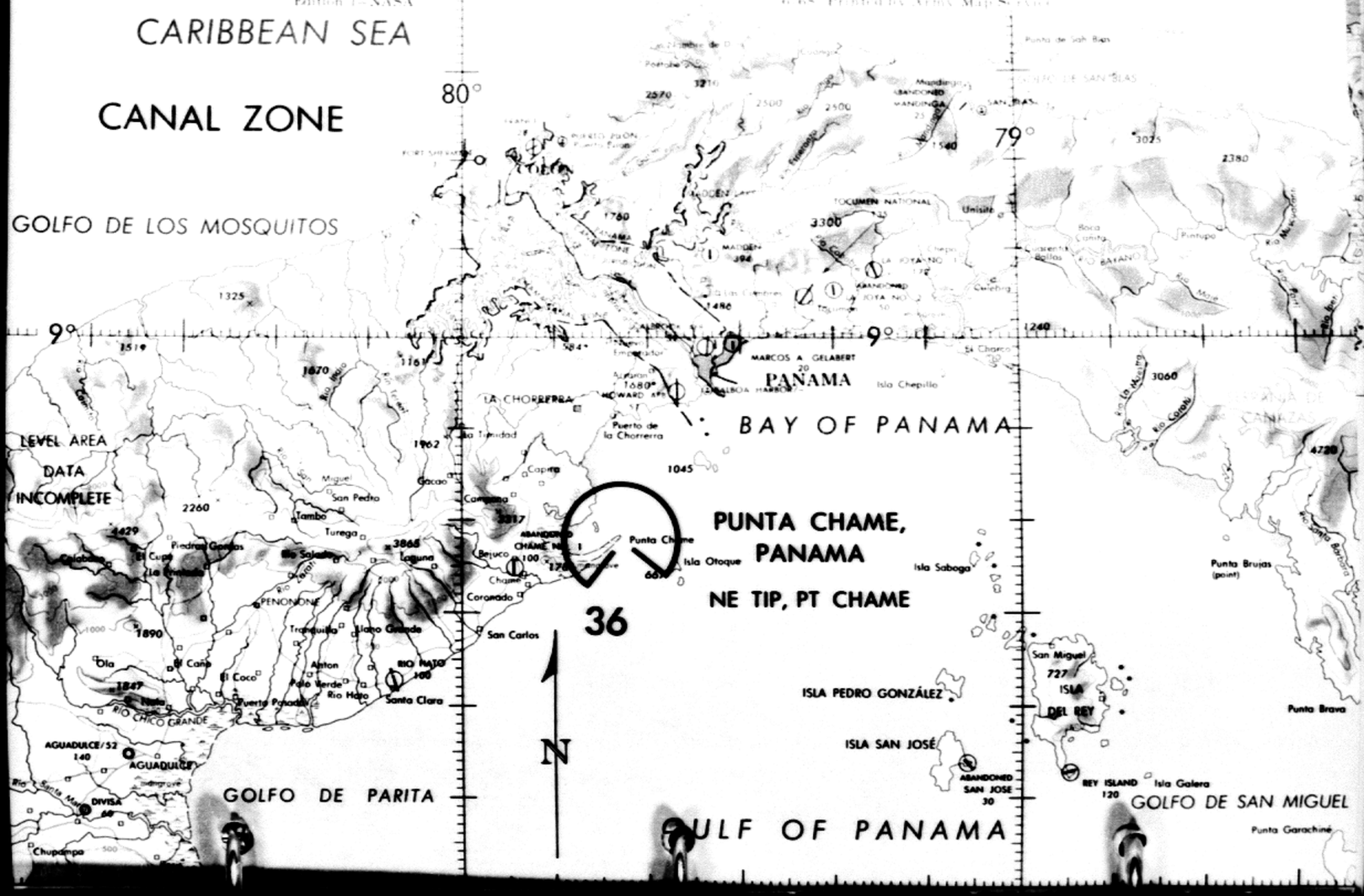

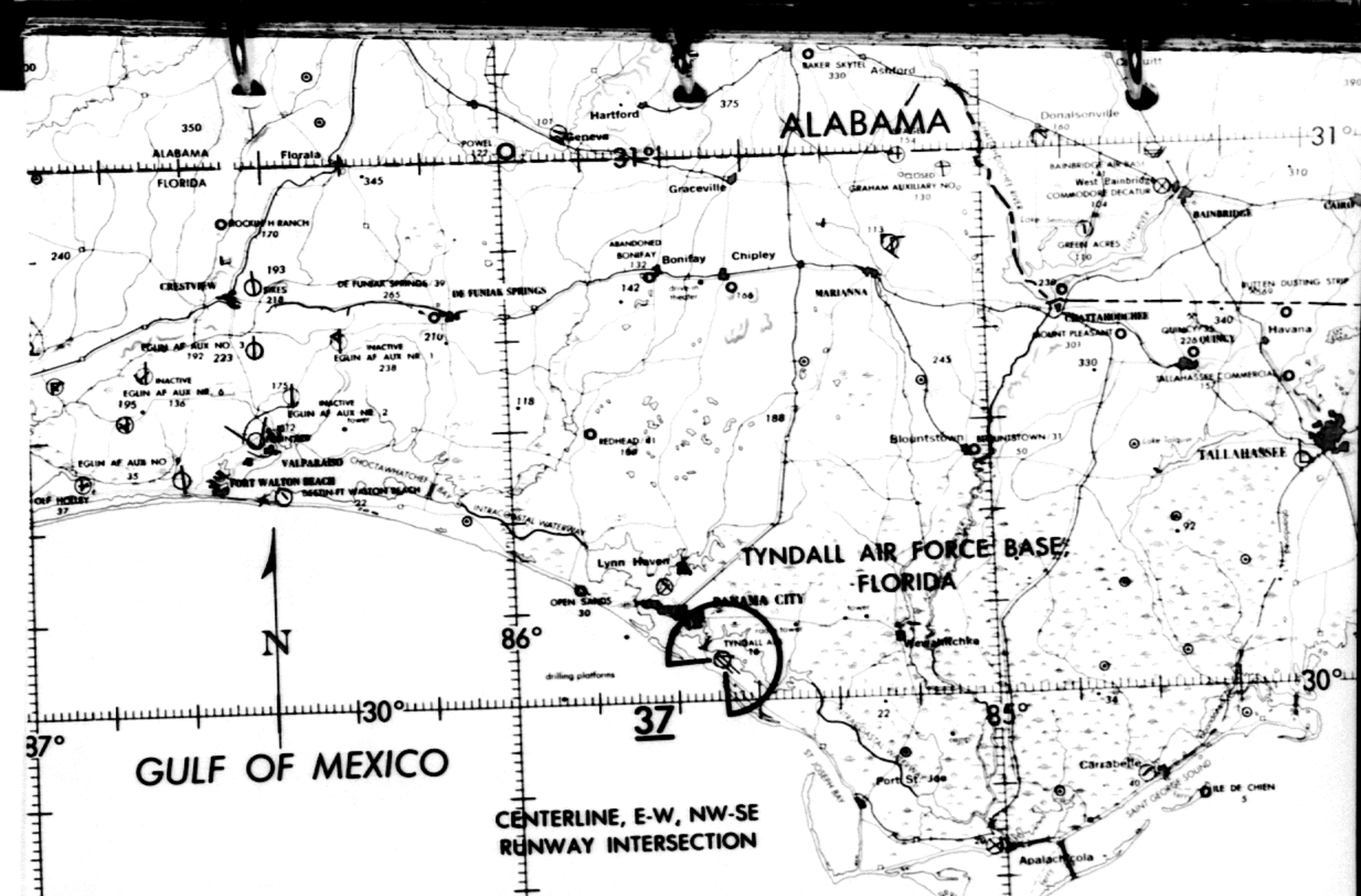

Edition 1—NASA

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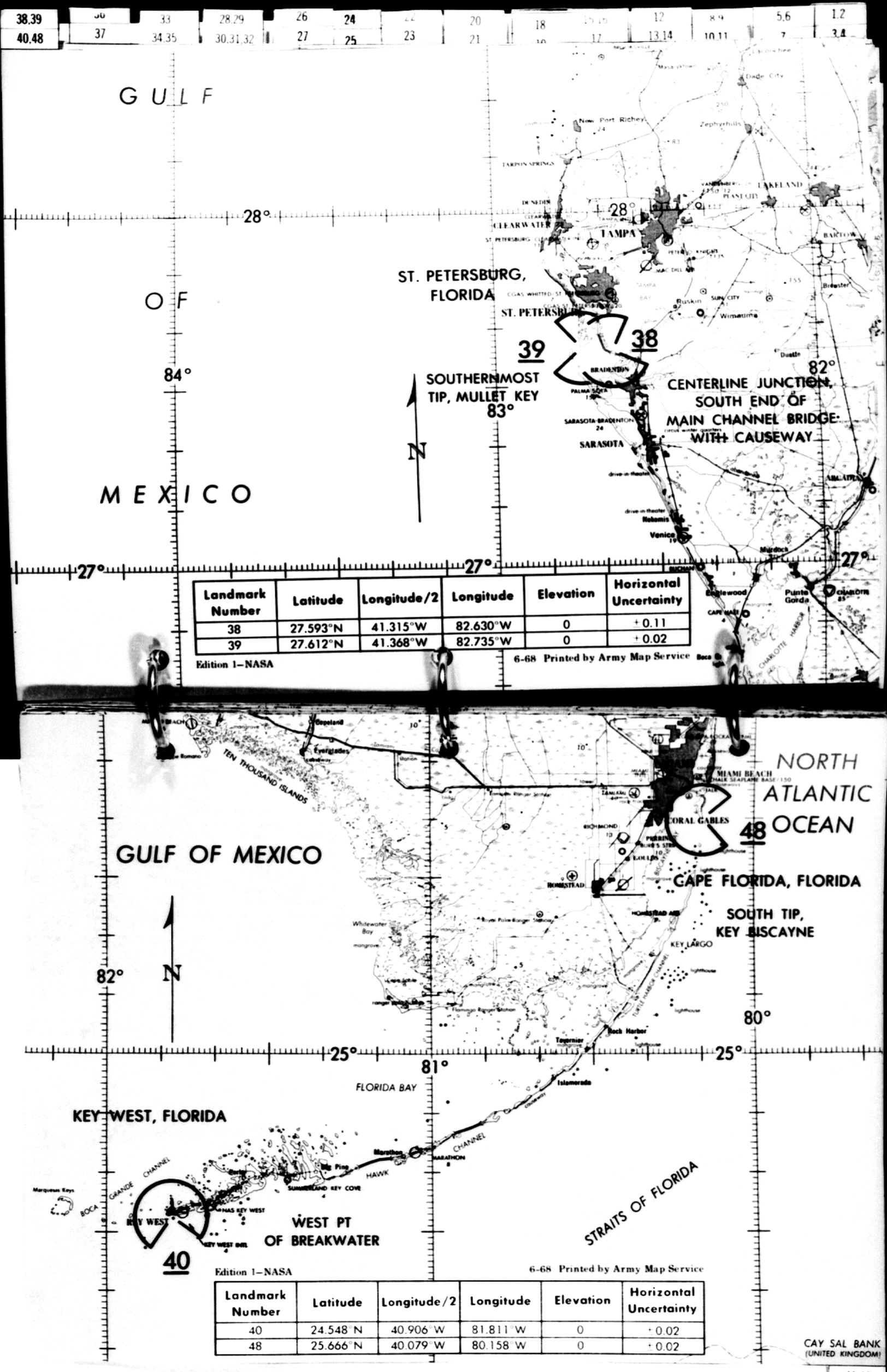
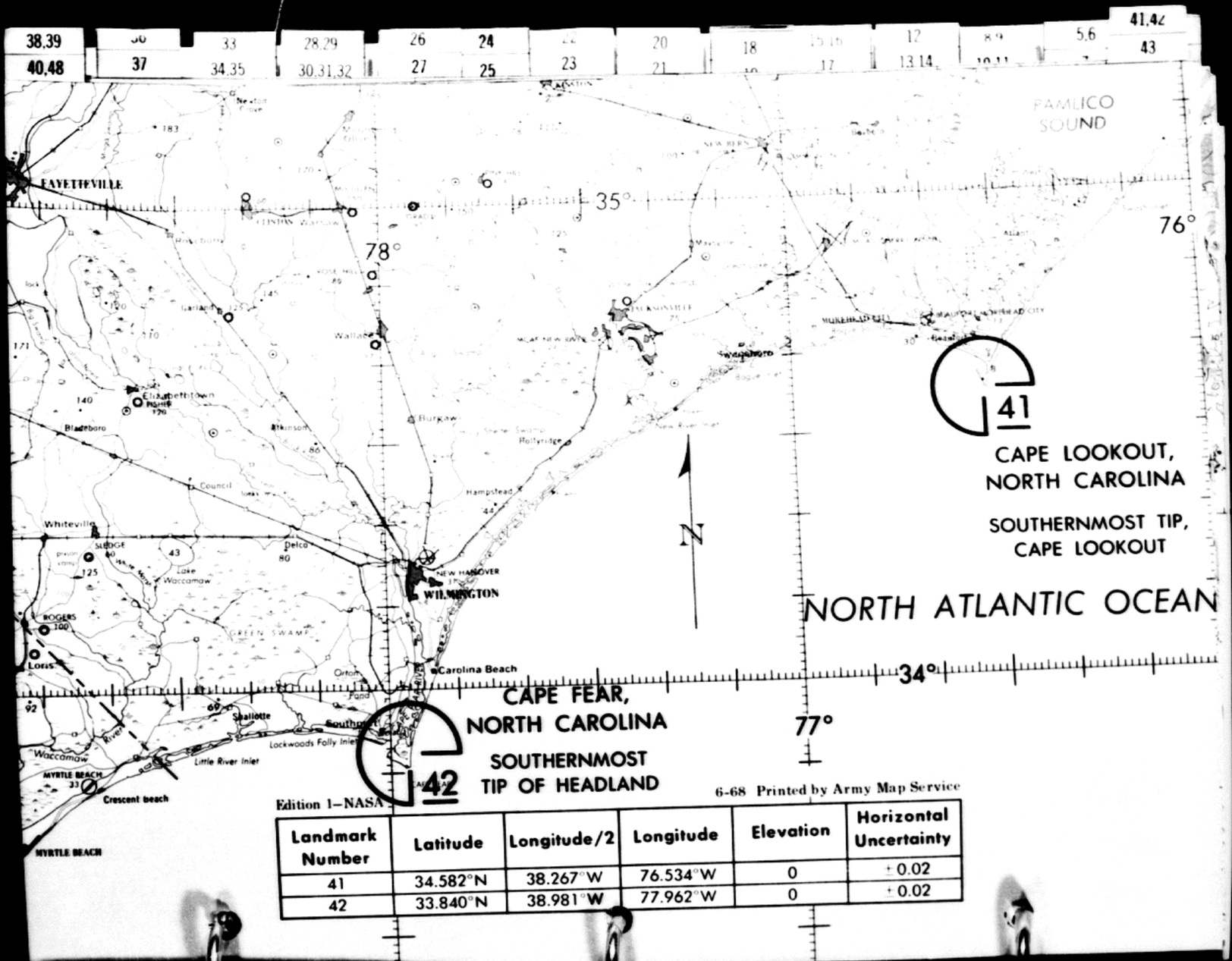
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
37	30.077°N	42.790°W	85.581°W	0	±0.02



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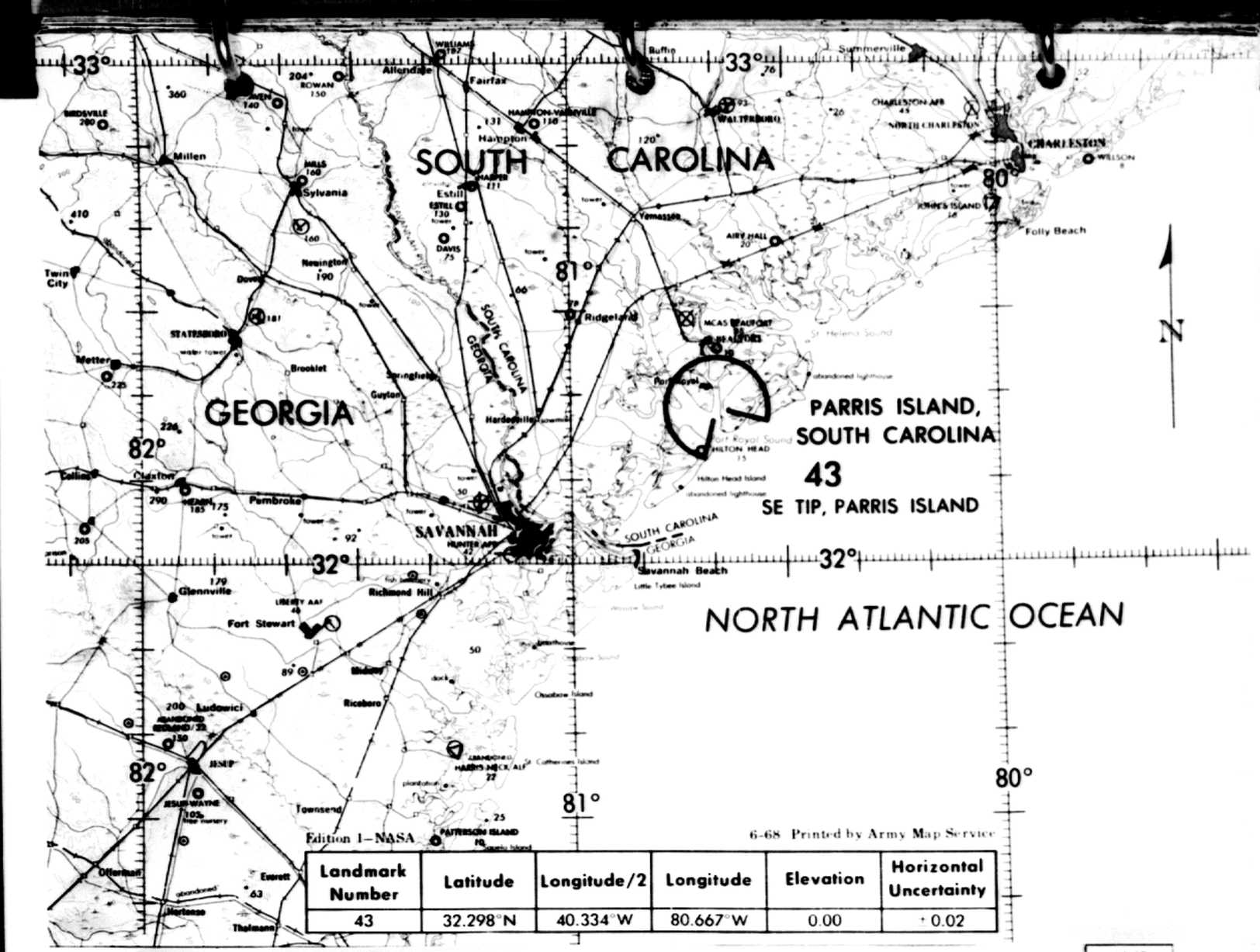
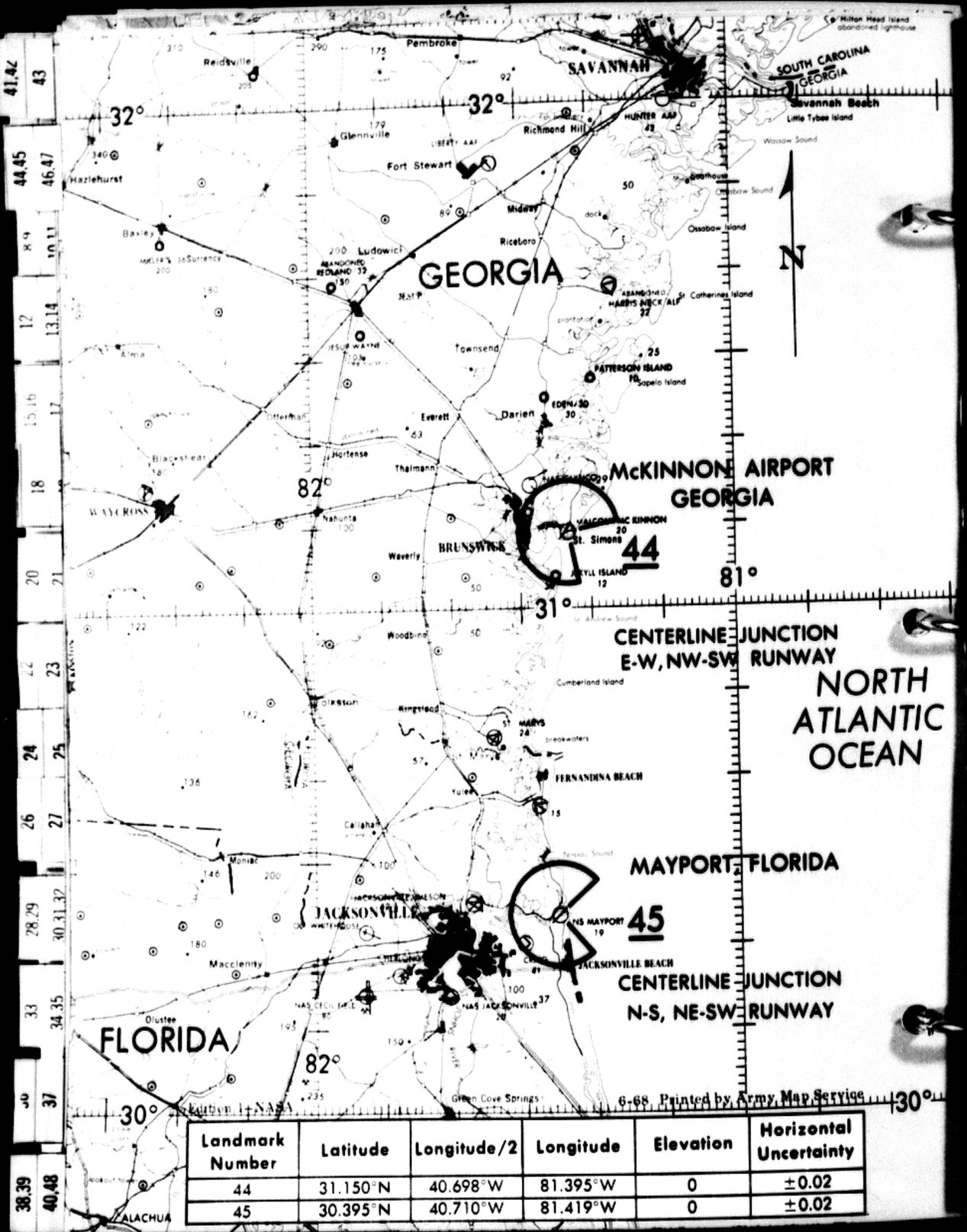
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
41	34.582°N	38.267°W	76.534°W	0	± 0.02
42	33.840°N	38.981°W	77.962°W	0	± 0.02

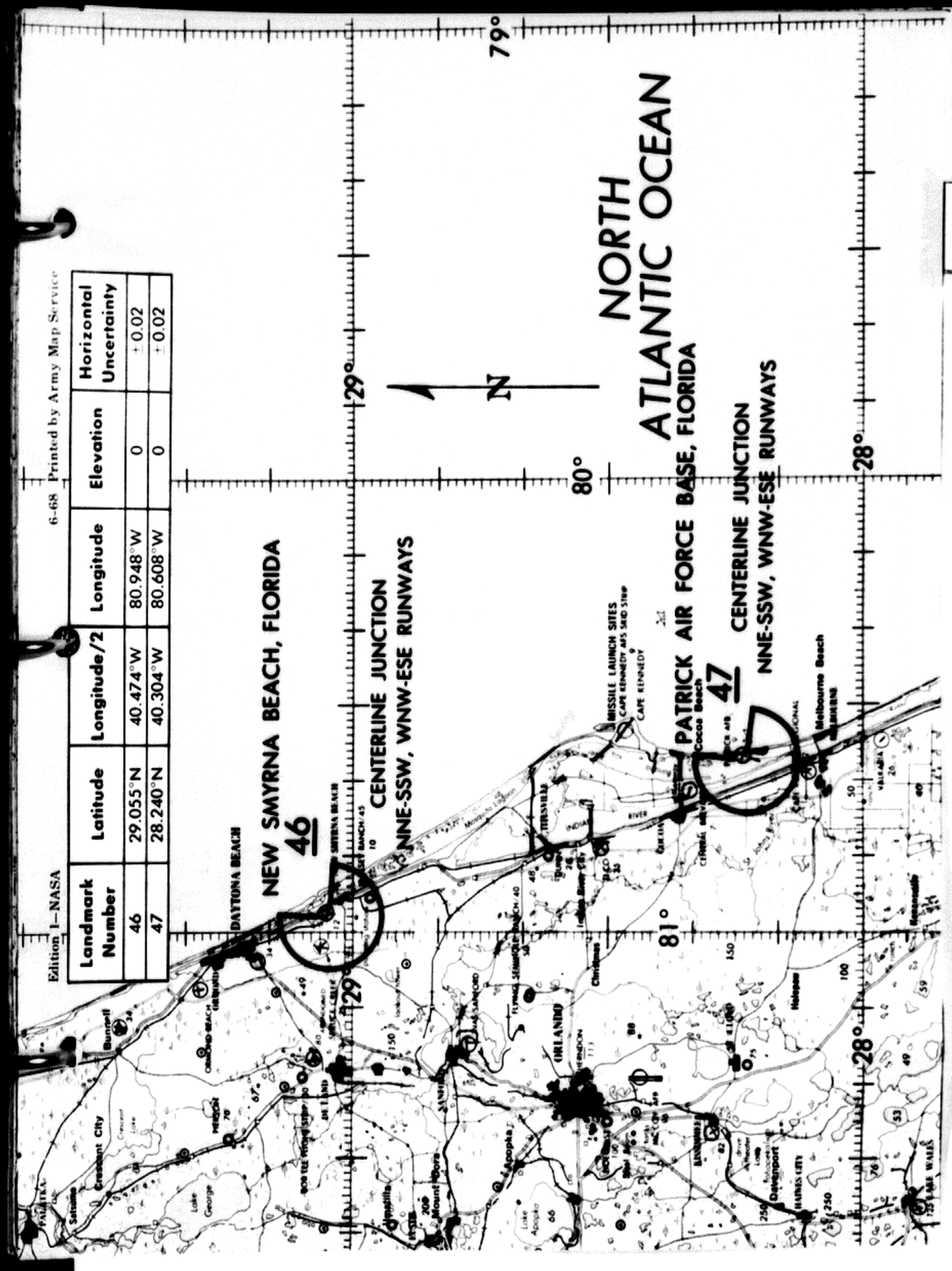


Edition 1—NASA 6-68 Printed by Army Map Service

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

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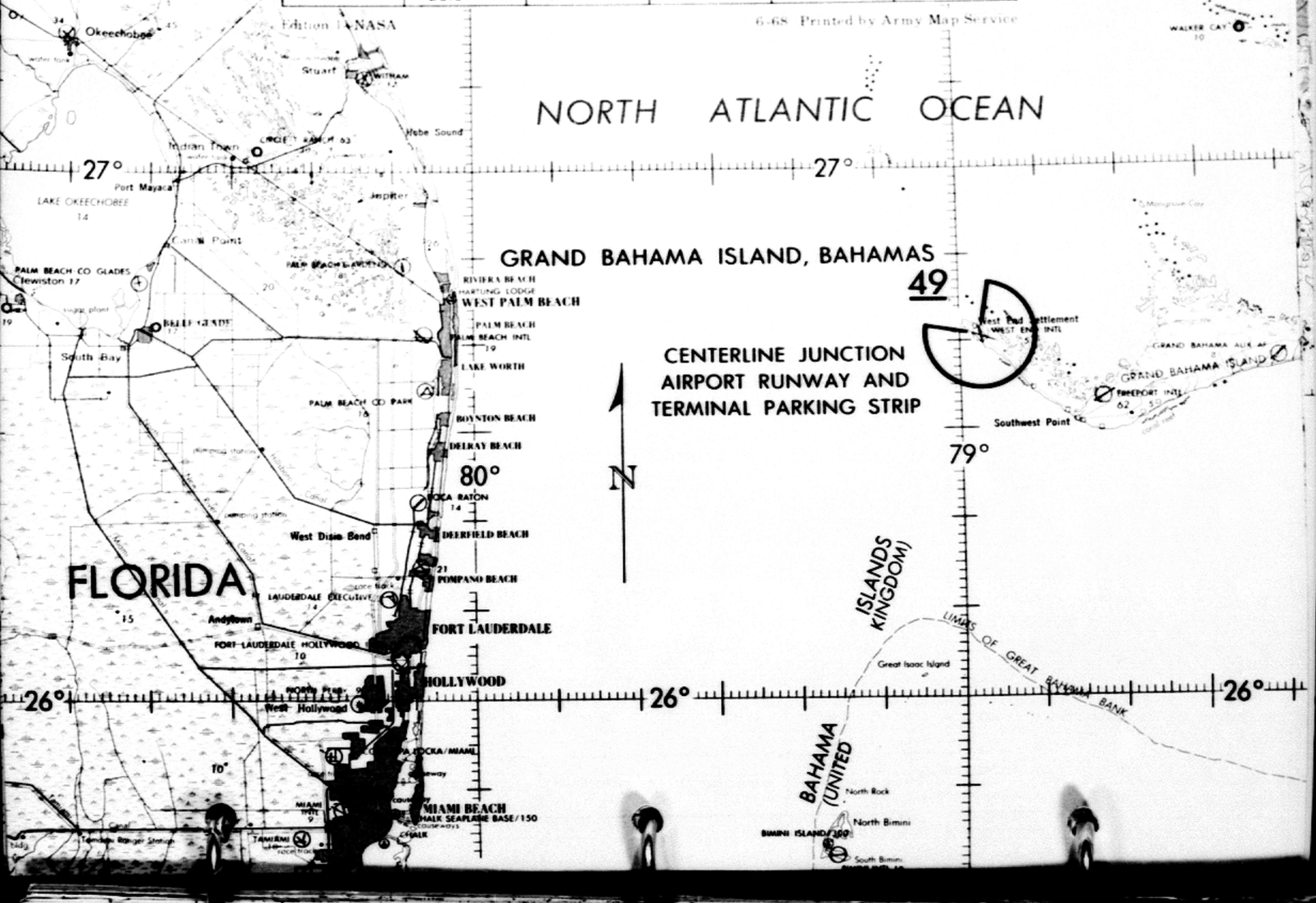
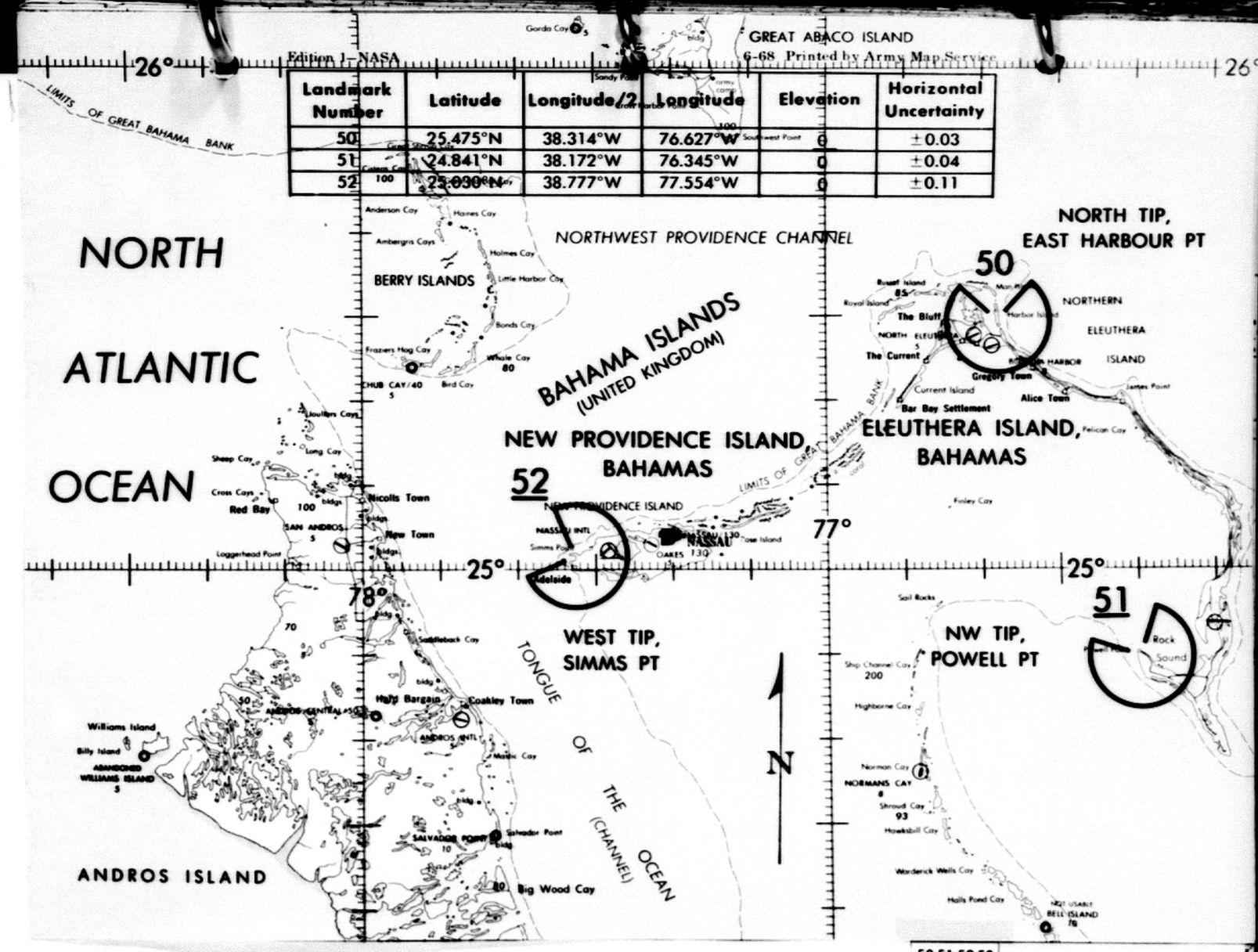
49
50,51,52

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	

BAHAMA ISLANDS
(UNITED KINGDOM)

NORTH ATLANTIC OCEAN

NORTHWEST PROVIDENCE CHANNEL

50 NORTH TIP, EAST HARBOUR PT

NEW PROVIDENCE ISLAND, BAHAMAS

ELEUTHERA ISLAND, BAHAMAS

52 WEST TIP, SIMMS PT

51 NW TIP, POWELL PT

CAT ISLAND, BAHAMAS

SOUTH TIP, COLUMBUS PT 53

TONGUE OF THE OCEAN (CHANNEL)

ANDROS ISLAND

EXUMA SOUND

77° 76° 25° 24°

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

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

NORTH ATLANTIC OCEAN

LONG ISLAND, BAHAMAS

SOUTH TIP, SOUTH PT 54

CROOKED ISLAND PASSAGE

BAHAMA ISLANDS
(UNITED KINGDOM)

MAYAGUANA PASSAGE

WEST TIP, SW PT 56

SW TIP, CASTLE ISLAND 55

CASTLE ISLAND, BAHAMAS

MAYAGUANA ISLAND, BAHAMAS

LITTLE INAGUA ISLAND

75° 74° 73° 23° 22°

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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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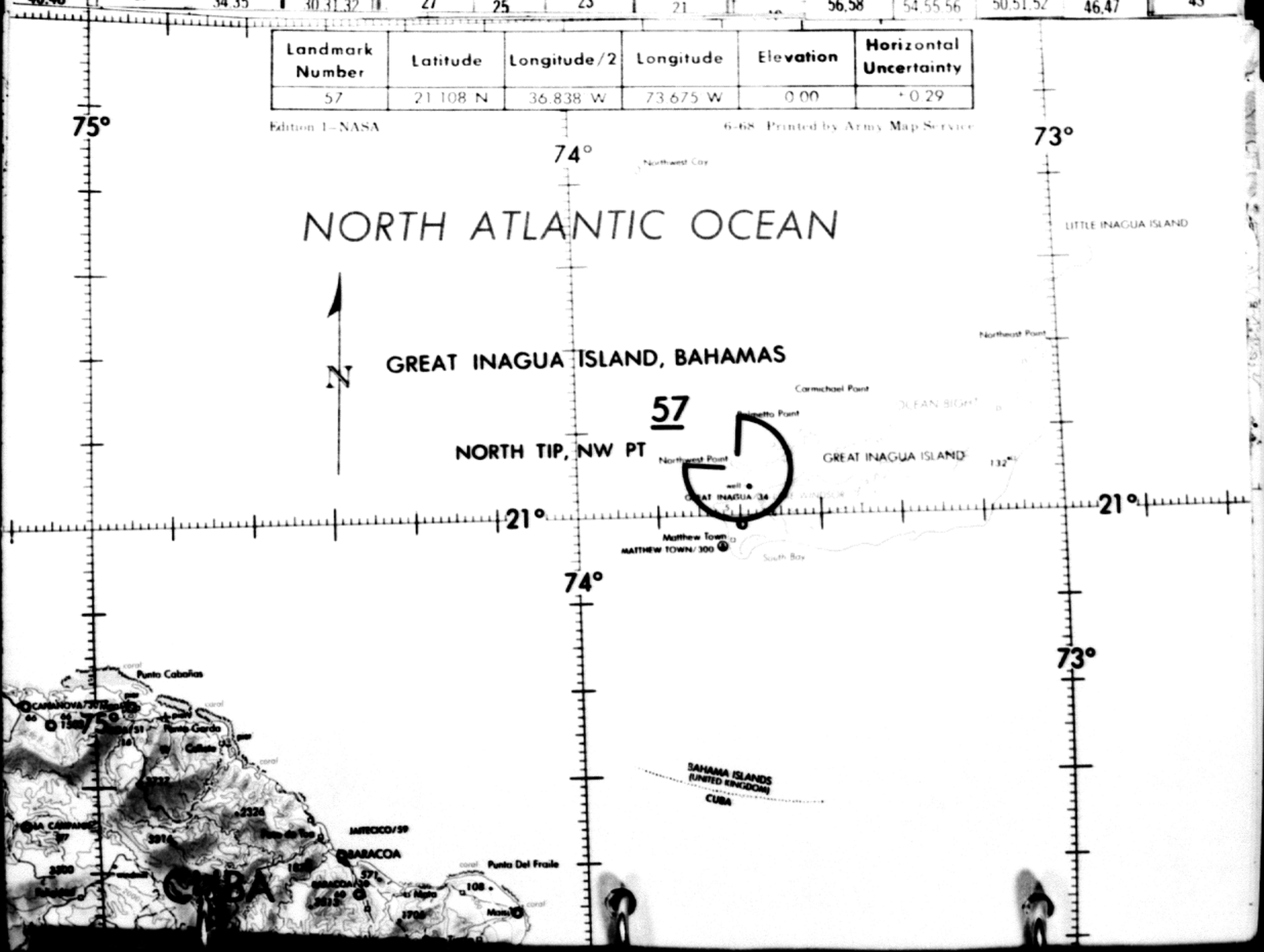
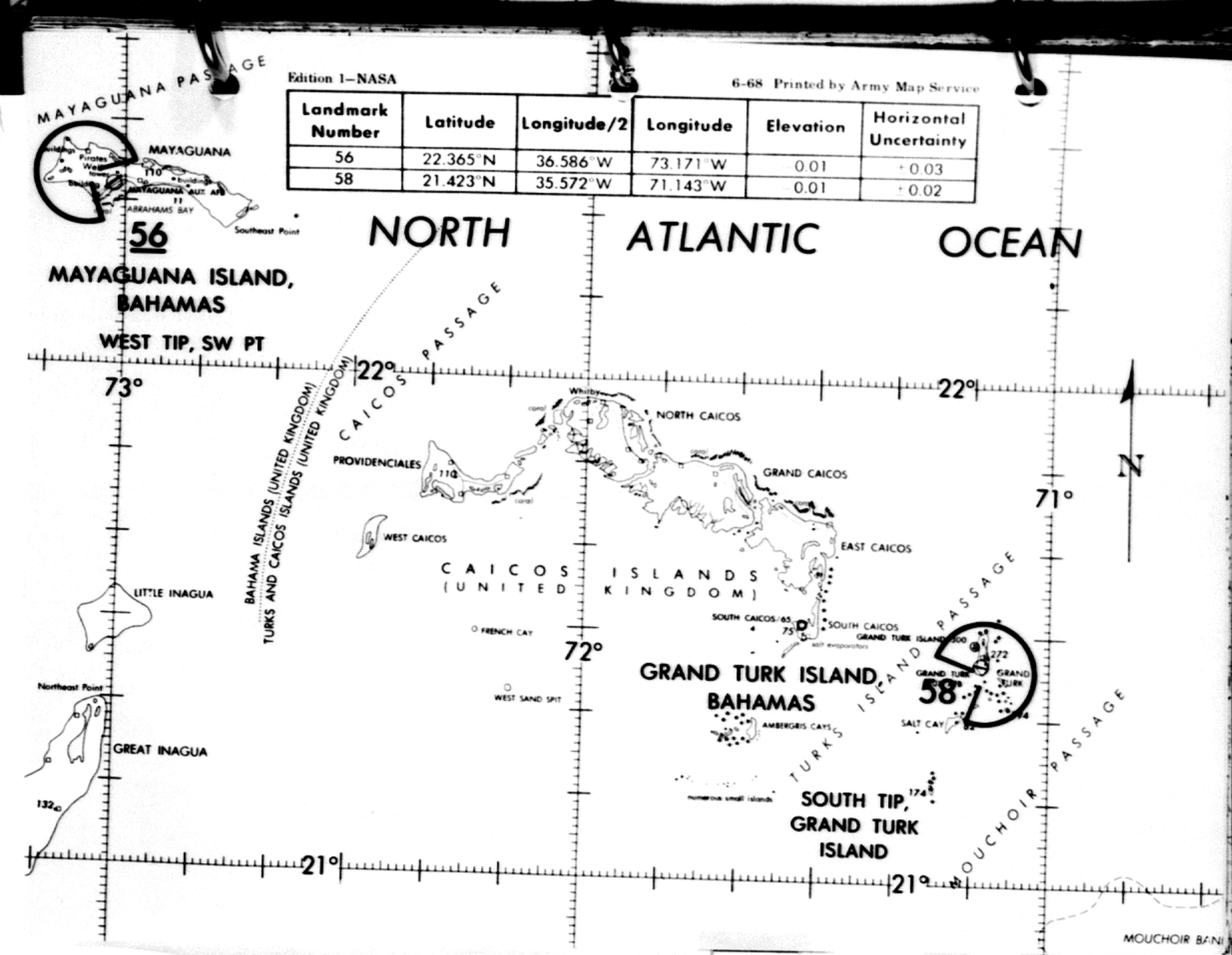
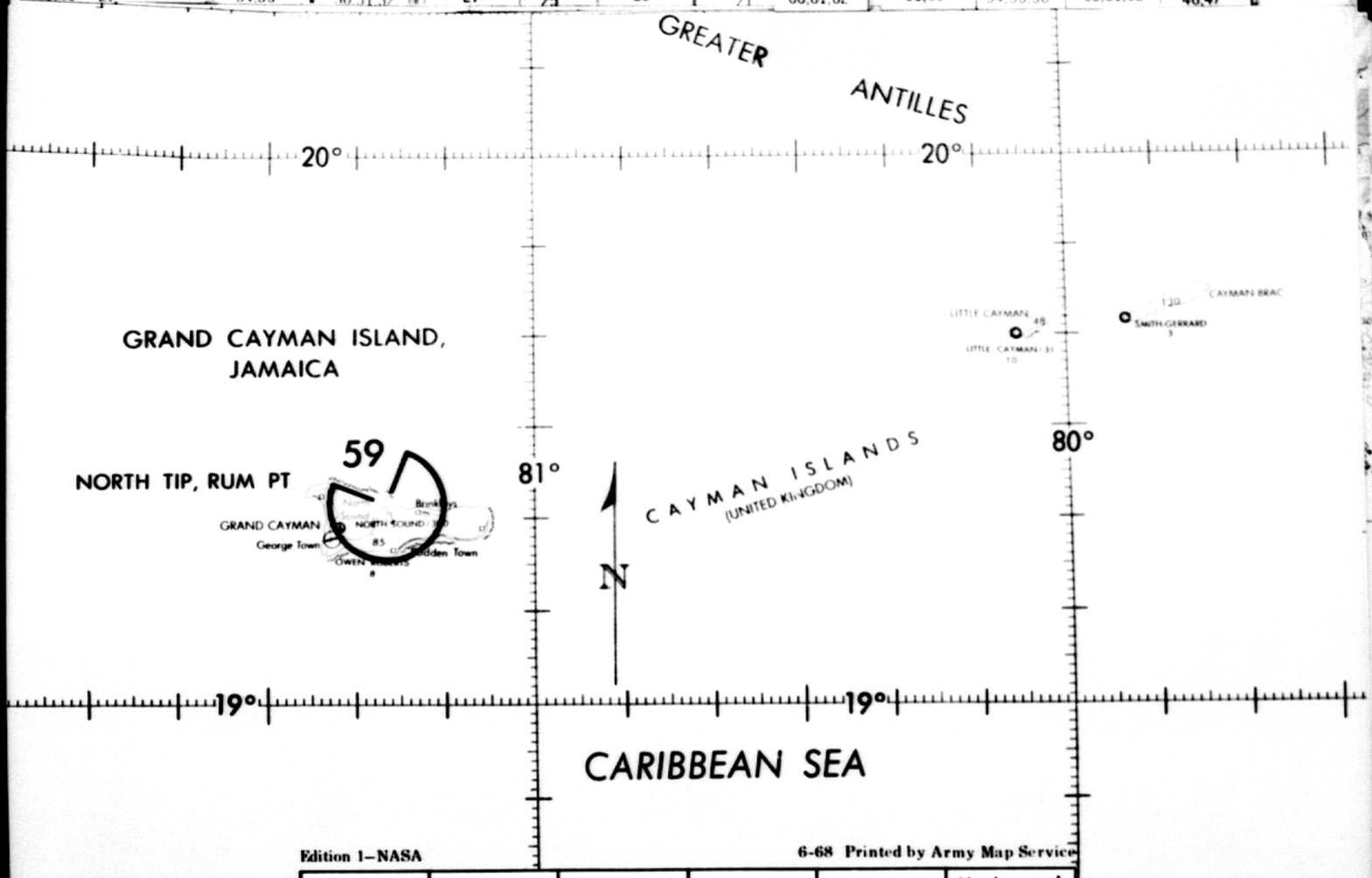


Edition 1—NASA 6-68 Printed by Army Map Service

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

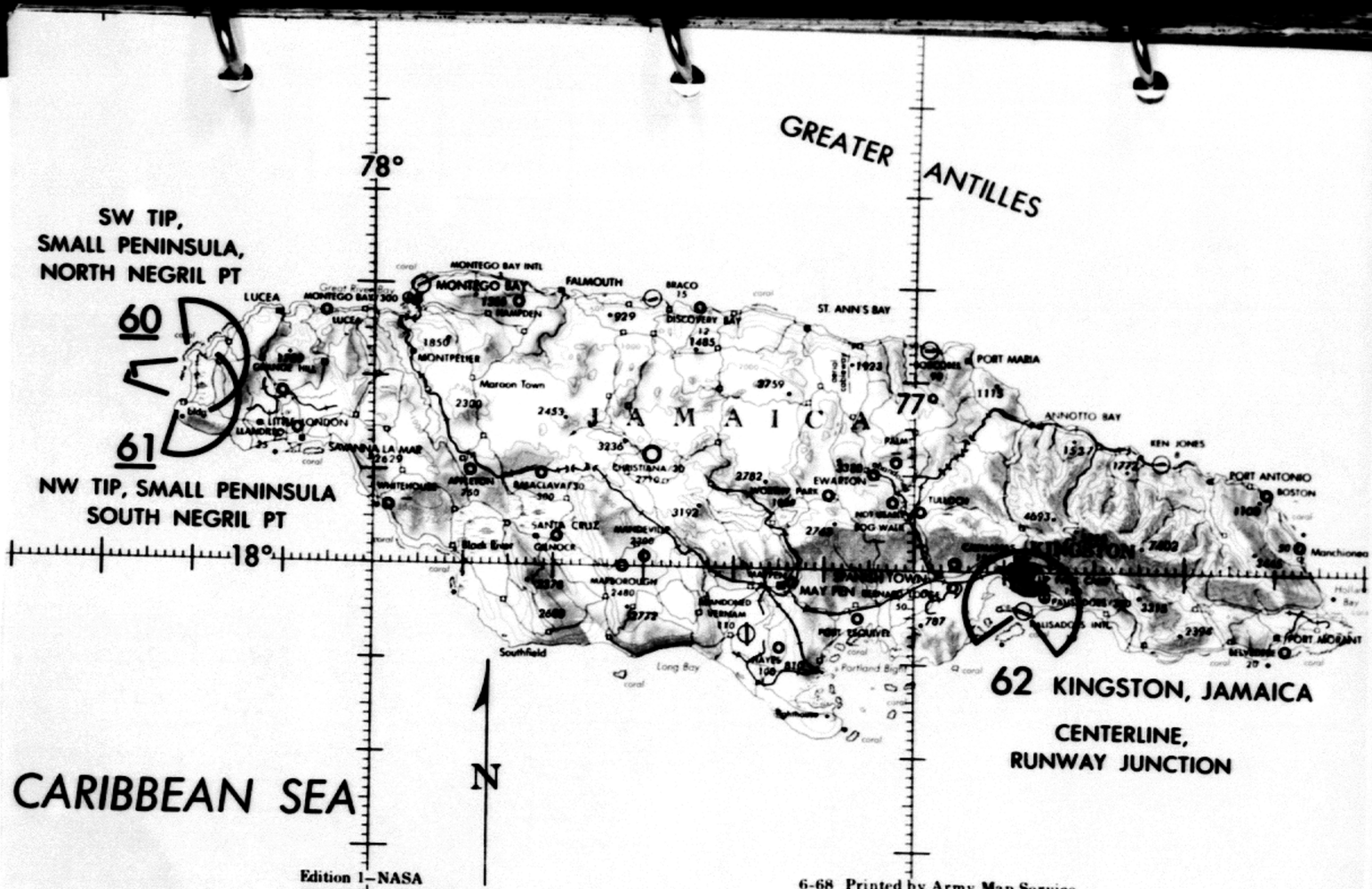




Edition 1—NASA

6-68 Printed by Army Map Service

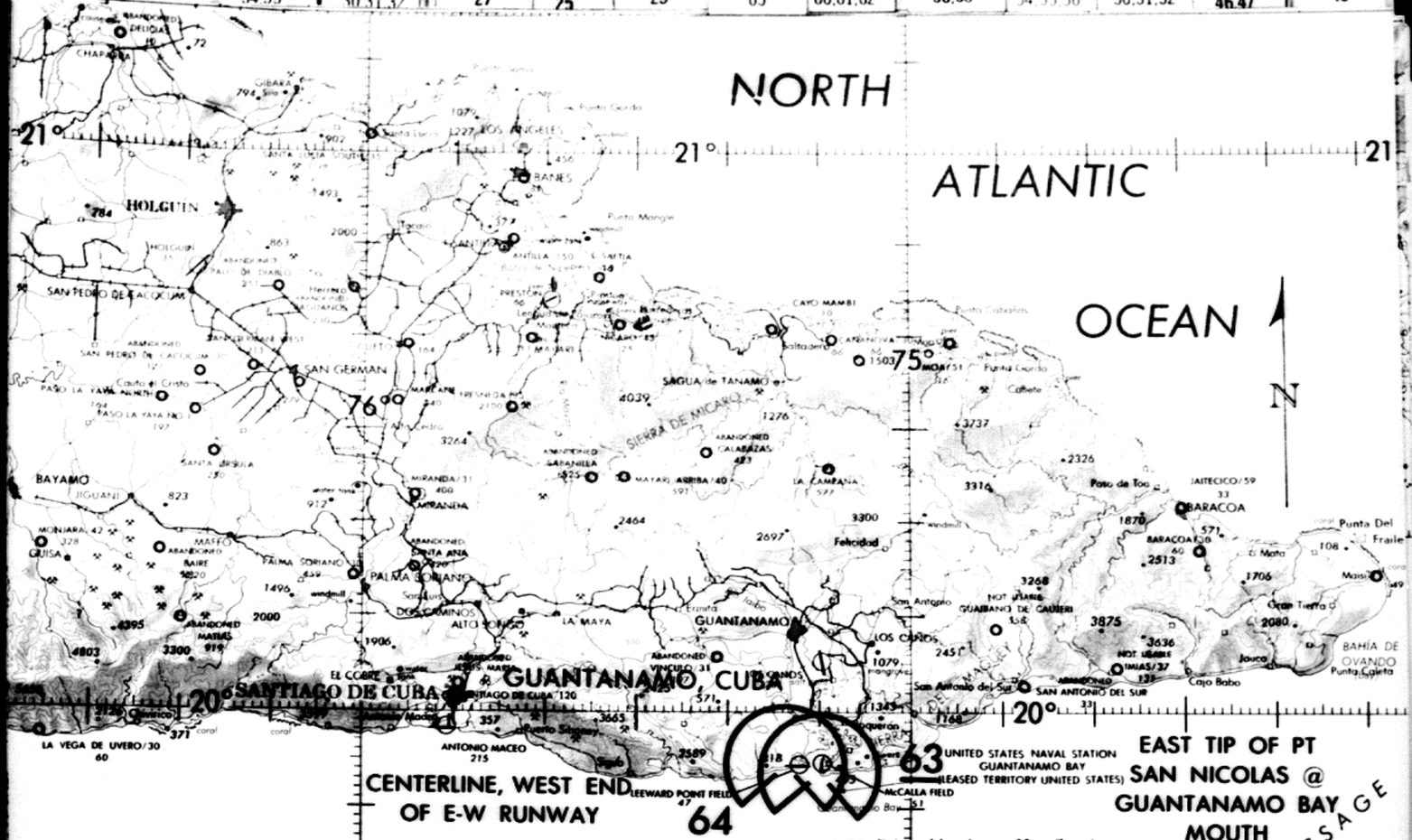
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
59	19.374°N	40.636°W	81.272°W	0.00	±0.07



Edition 1—NASA

6-68 Printed by Army Map Service

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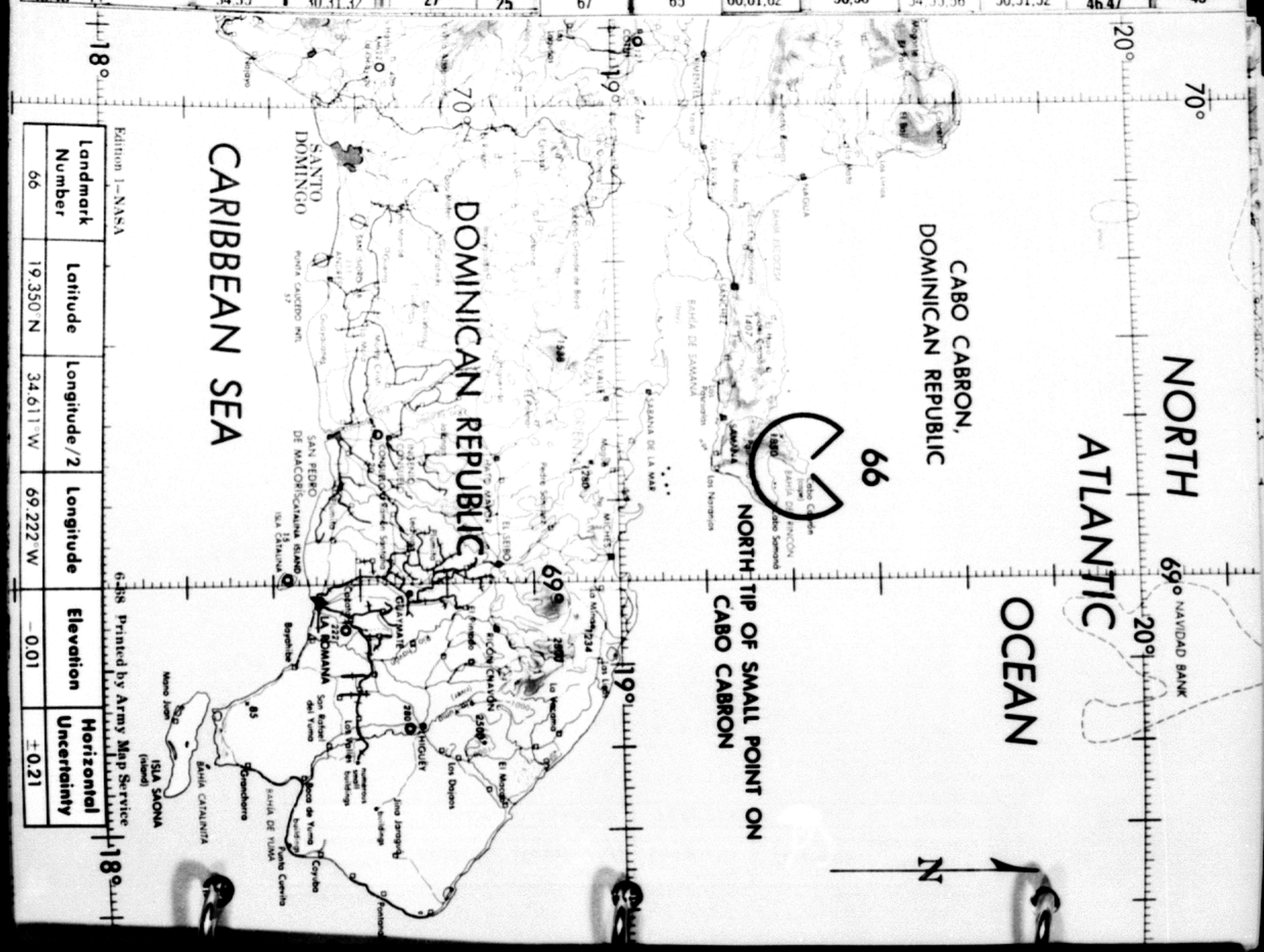
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
63	19.911°N	37.595°W	75.190°W	0.00	±0.03
64	19.911°N	37.583°W	75.166°W	0.00	±0.03

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

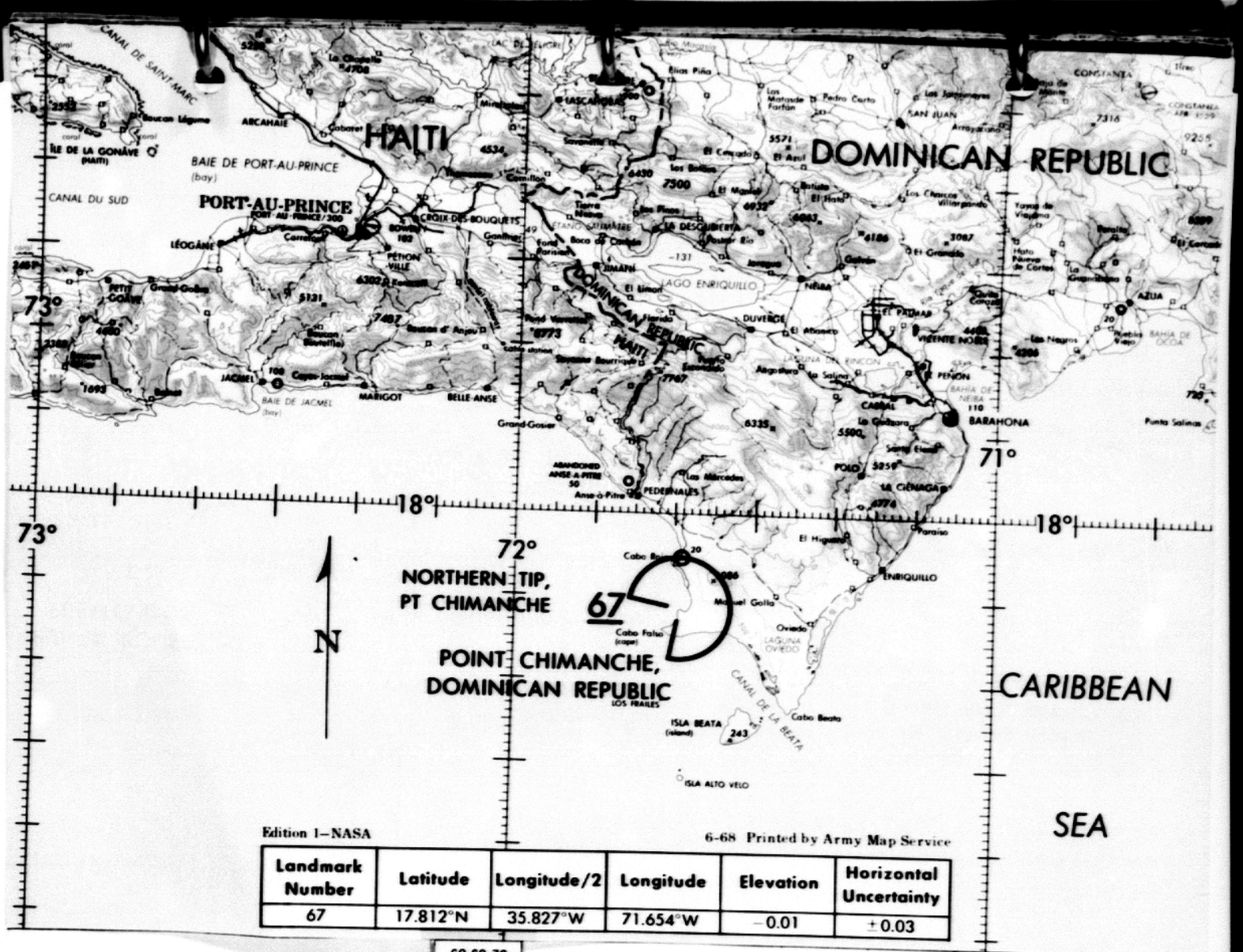
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
65	20.065°N	36.486°W	72.971°W	-0.01	+0.03



Edition 1—NASA

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

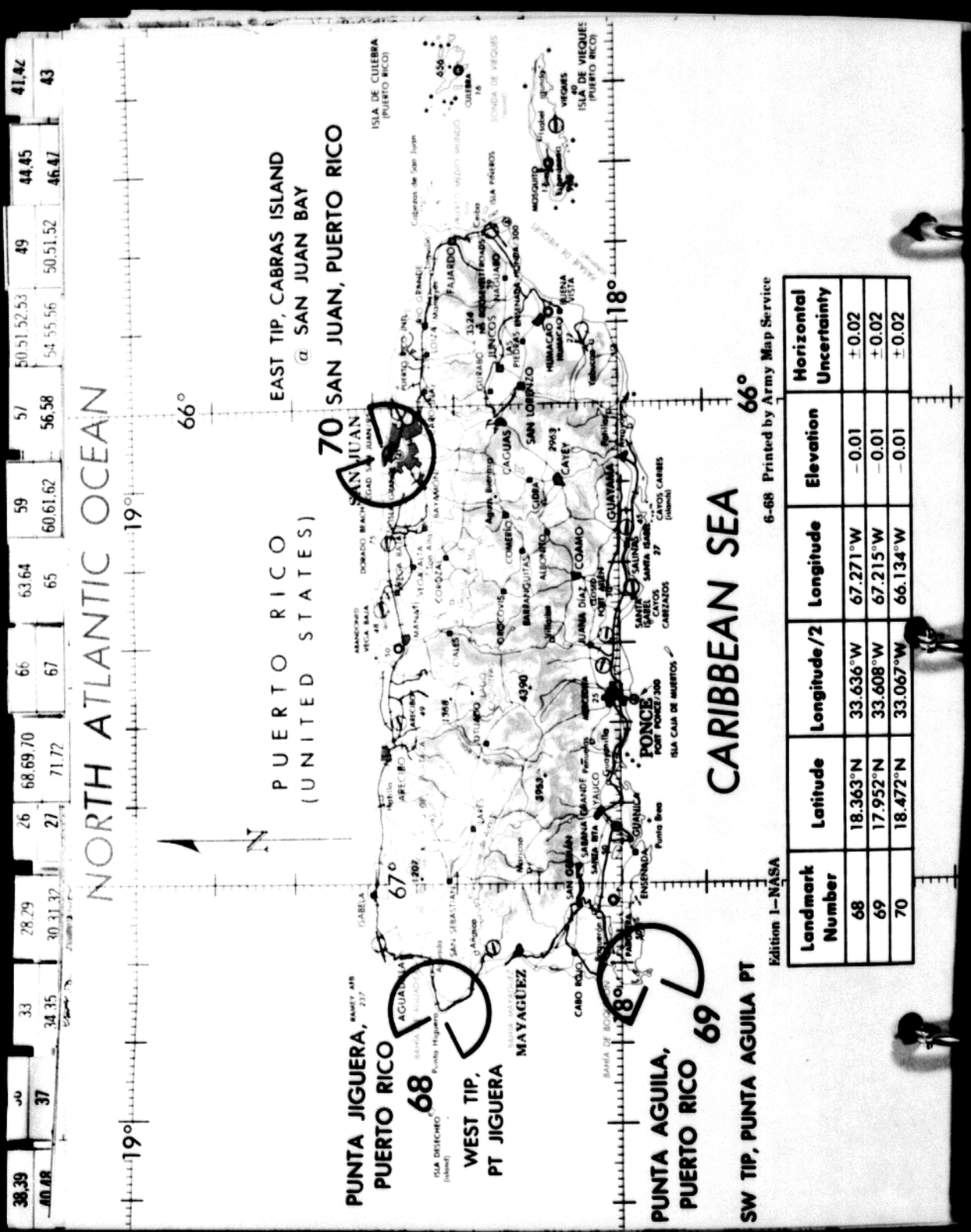
6-68 Printed by Army Map Service



Edition 1—NASA

6-68 Printed by Army Map Service

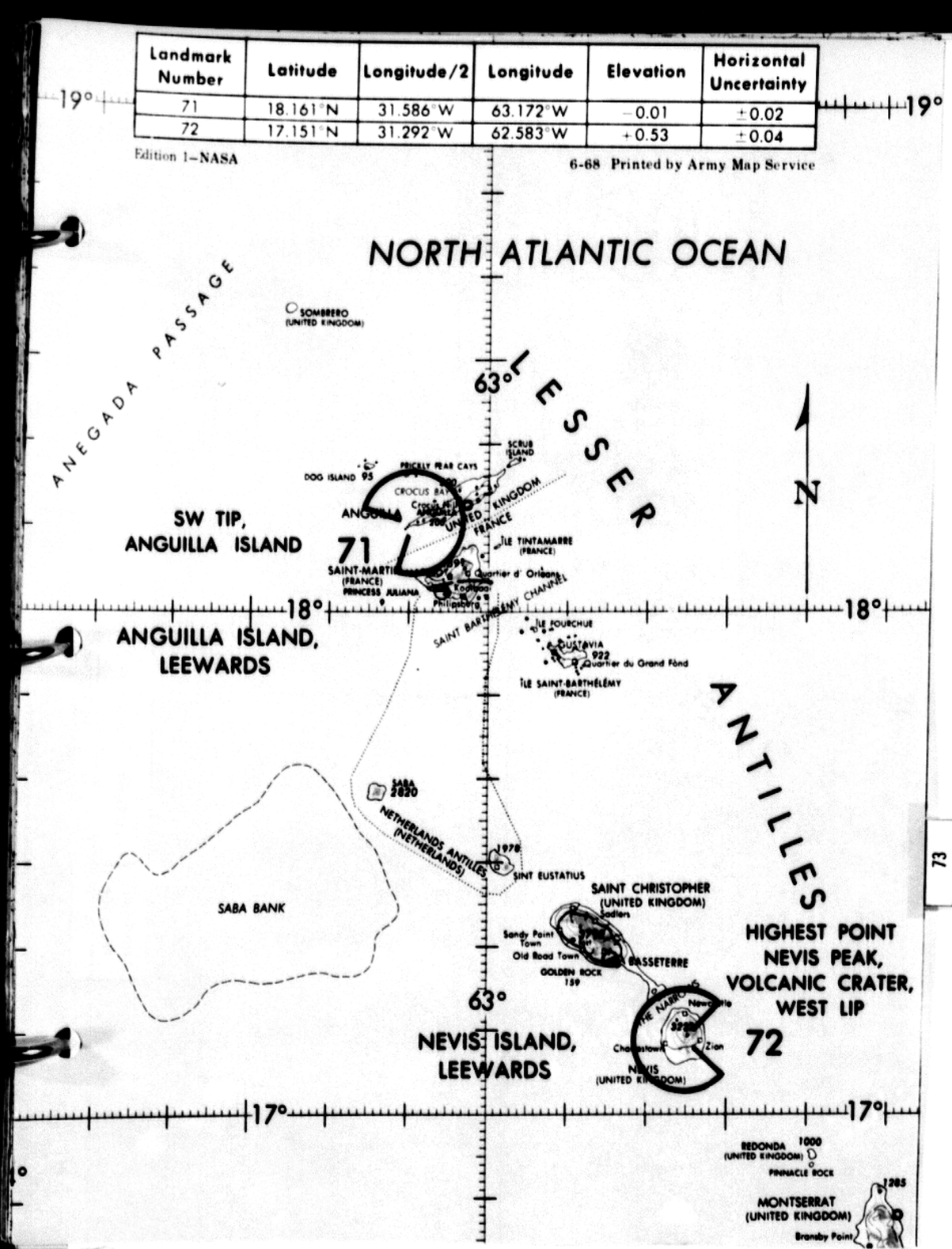
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
67	17.812°N	35.827°W	71.654°W	−0.01	±0.03



6-68 Printed by Army Map Service

Edition 1–NASA

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



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

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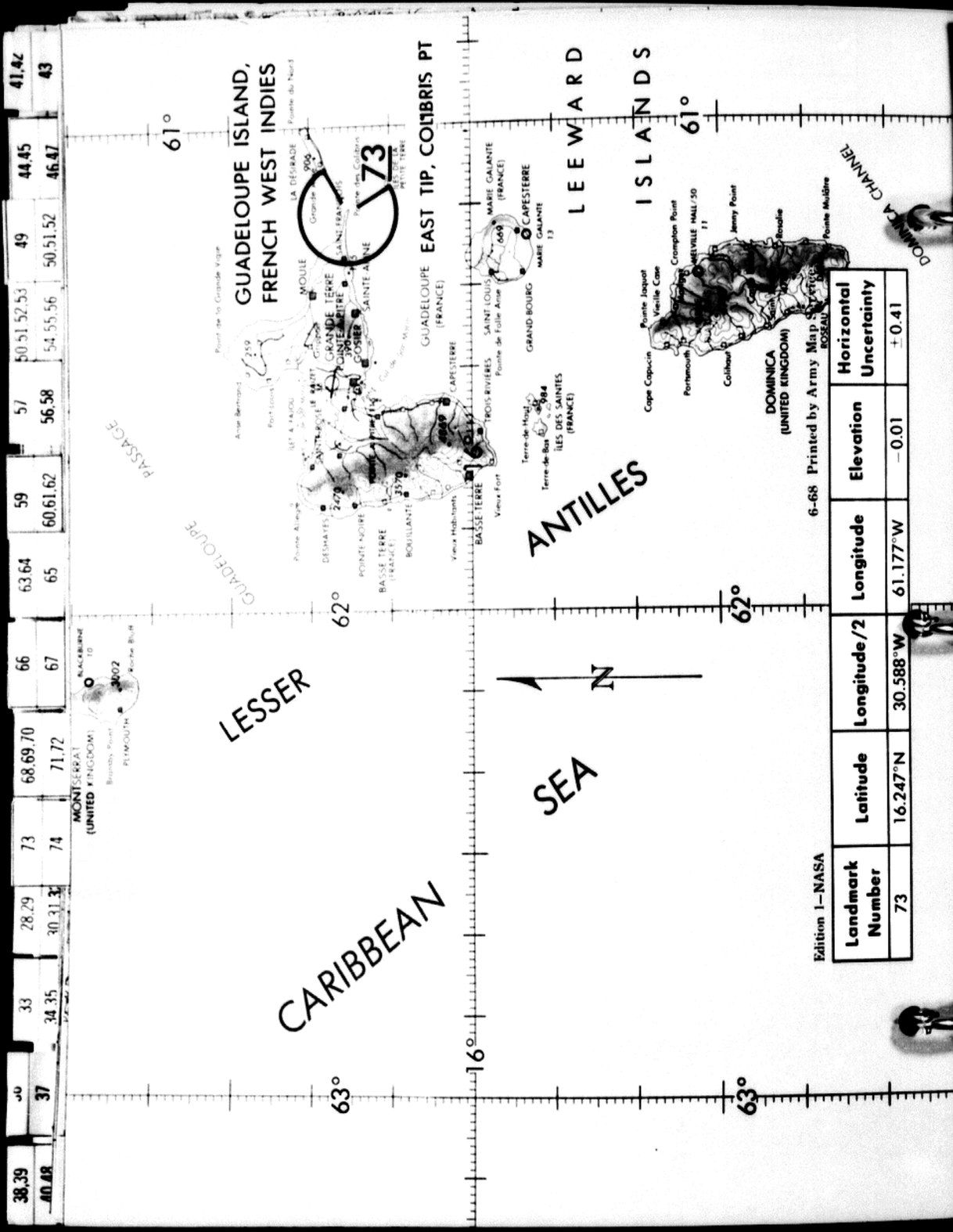
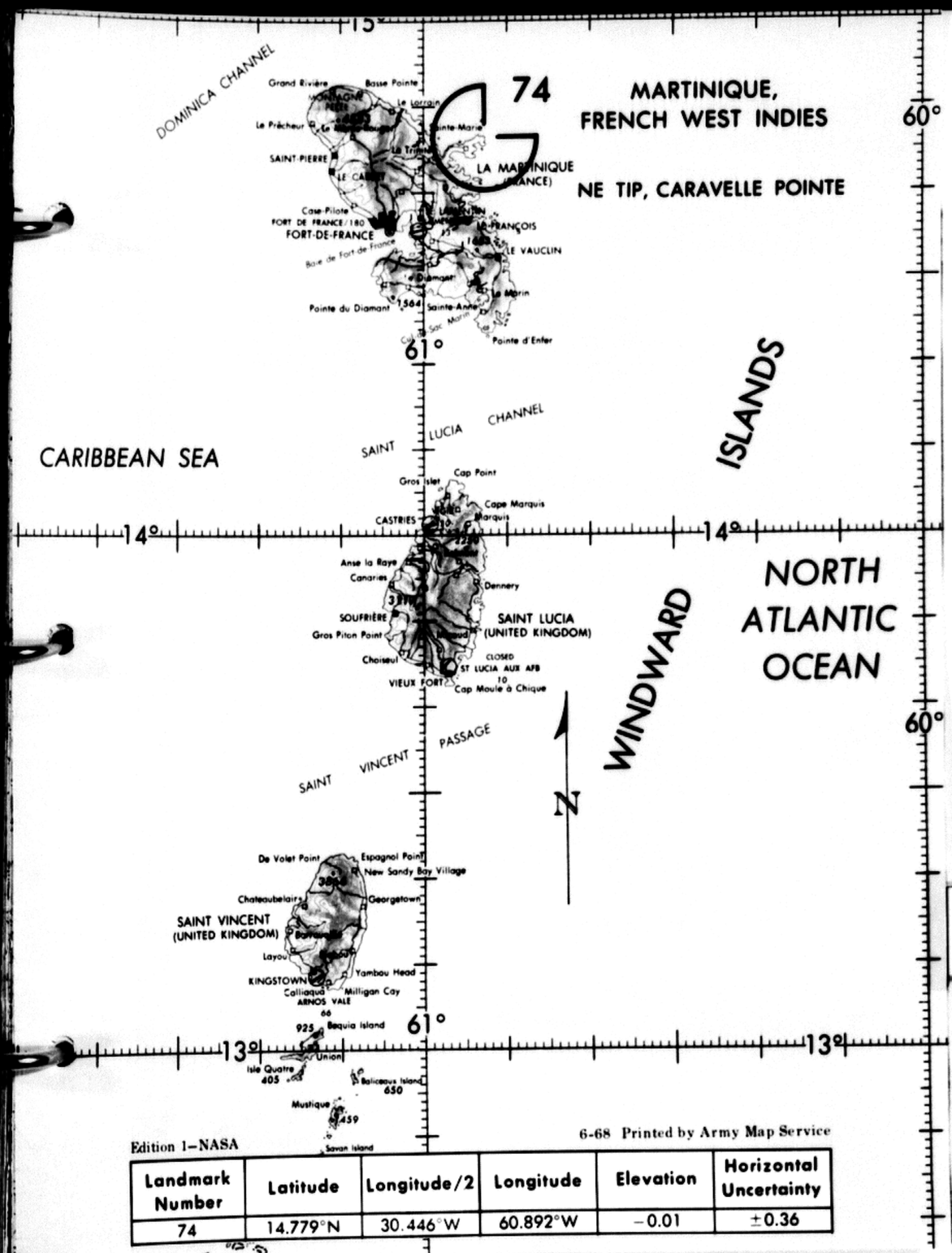


Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
73	16.247°N	30.588°W	61.177°W	−0.01	±0.41



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

PANAMA

CABO MARZO, COLOMBIA

101

SOUTH TIP, CABO MARZO

SOLANO POINT, COLOMBIA

102

NORTH TIP, PT de SOLANO

COLOMBIA

NORTH PACIFIC OCEAN

COLOMBIA

103

RELIEF DATA INCOMPLETE

WEST TIP, CABO CORRIENTES

Edition 1—NASA

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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

CORDILLERA ORIENTAL

CENTERLINE, RUNWAY, TAXI STRIP JUNCTION

BOGOTÁ, COLOMBIA

104

CORDILLERA CENTRAL

MANIZALES

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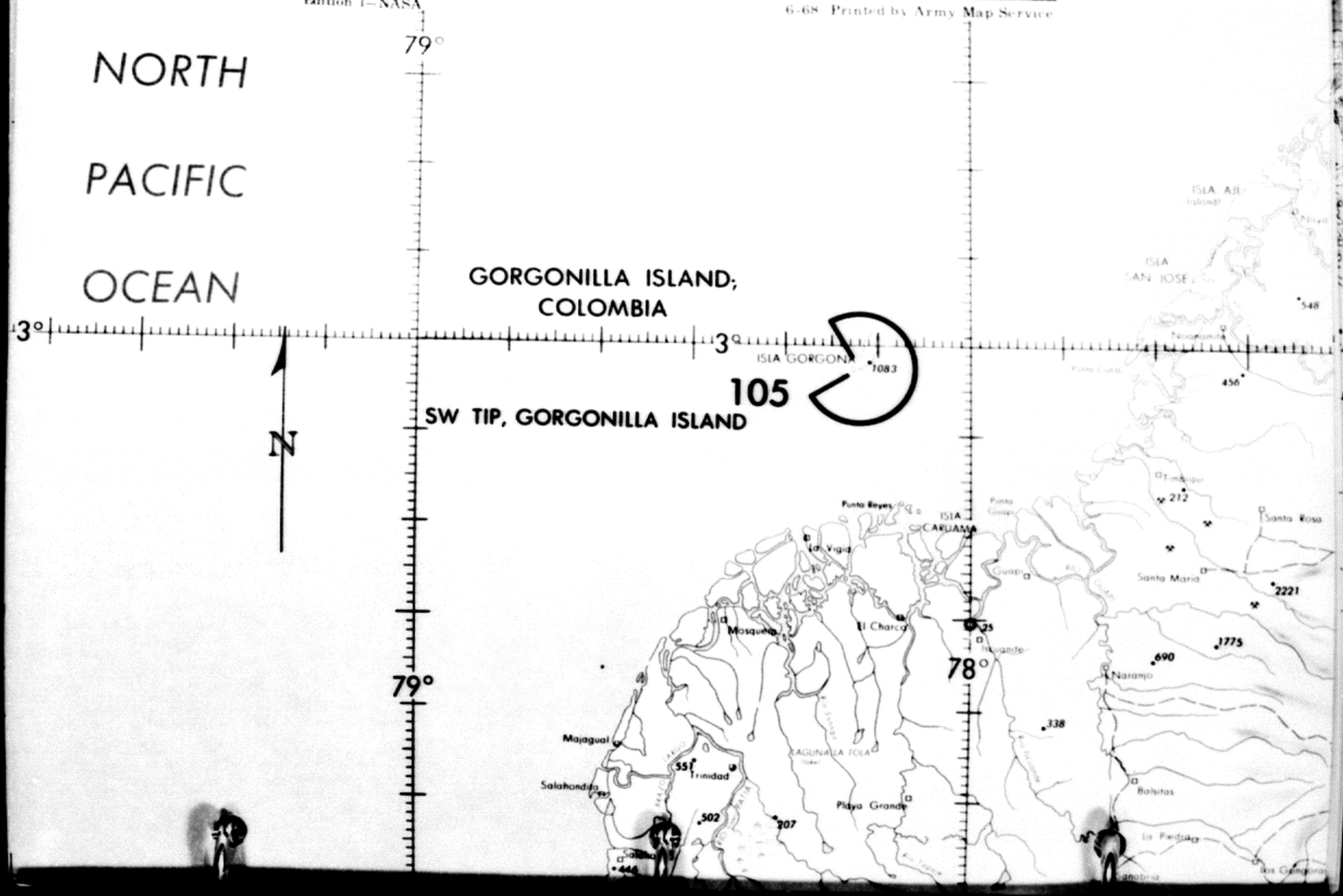
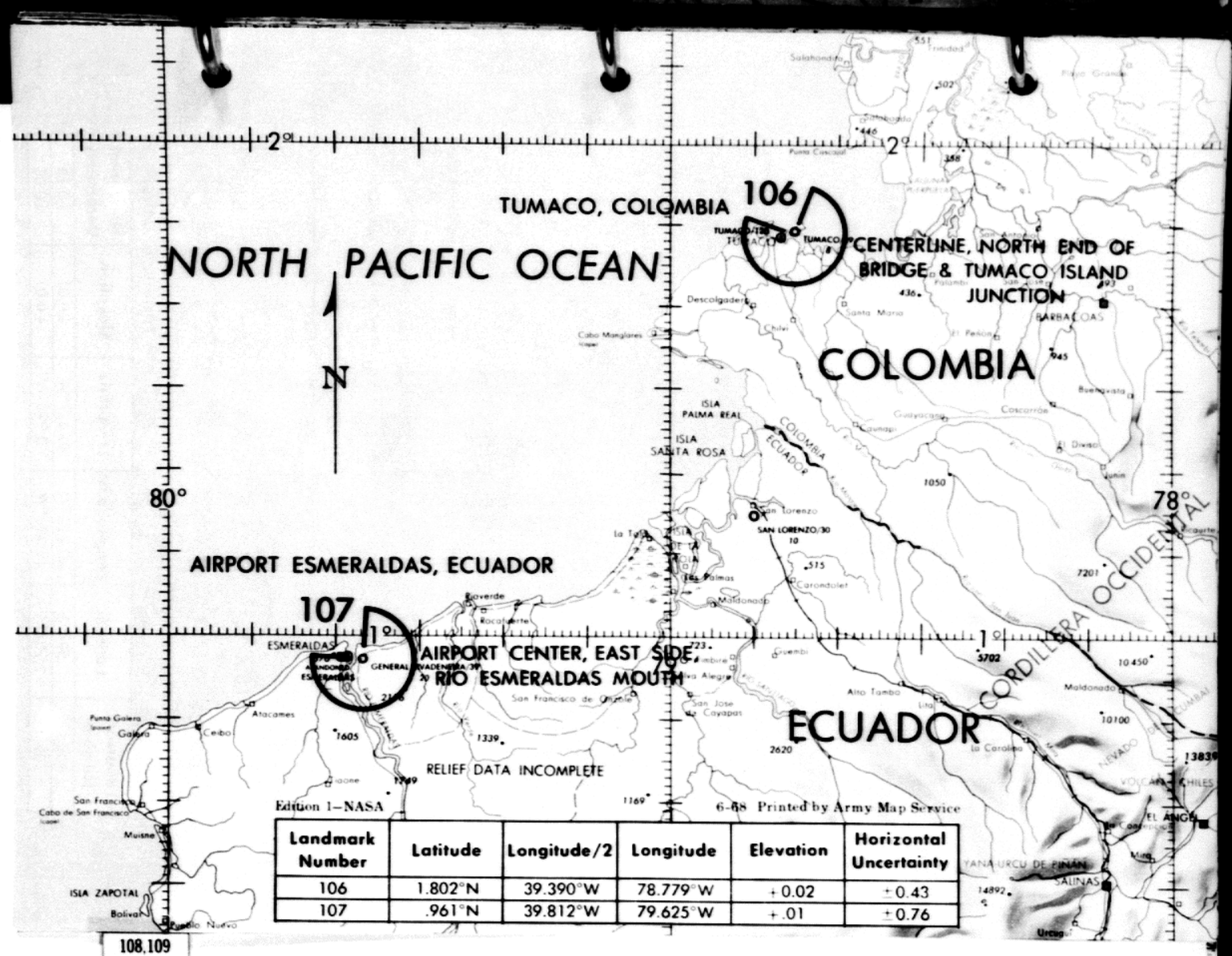
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
104	4.703°N	37.070°W	74.139°W	+1.39	±0.05

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

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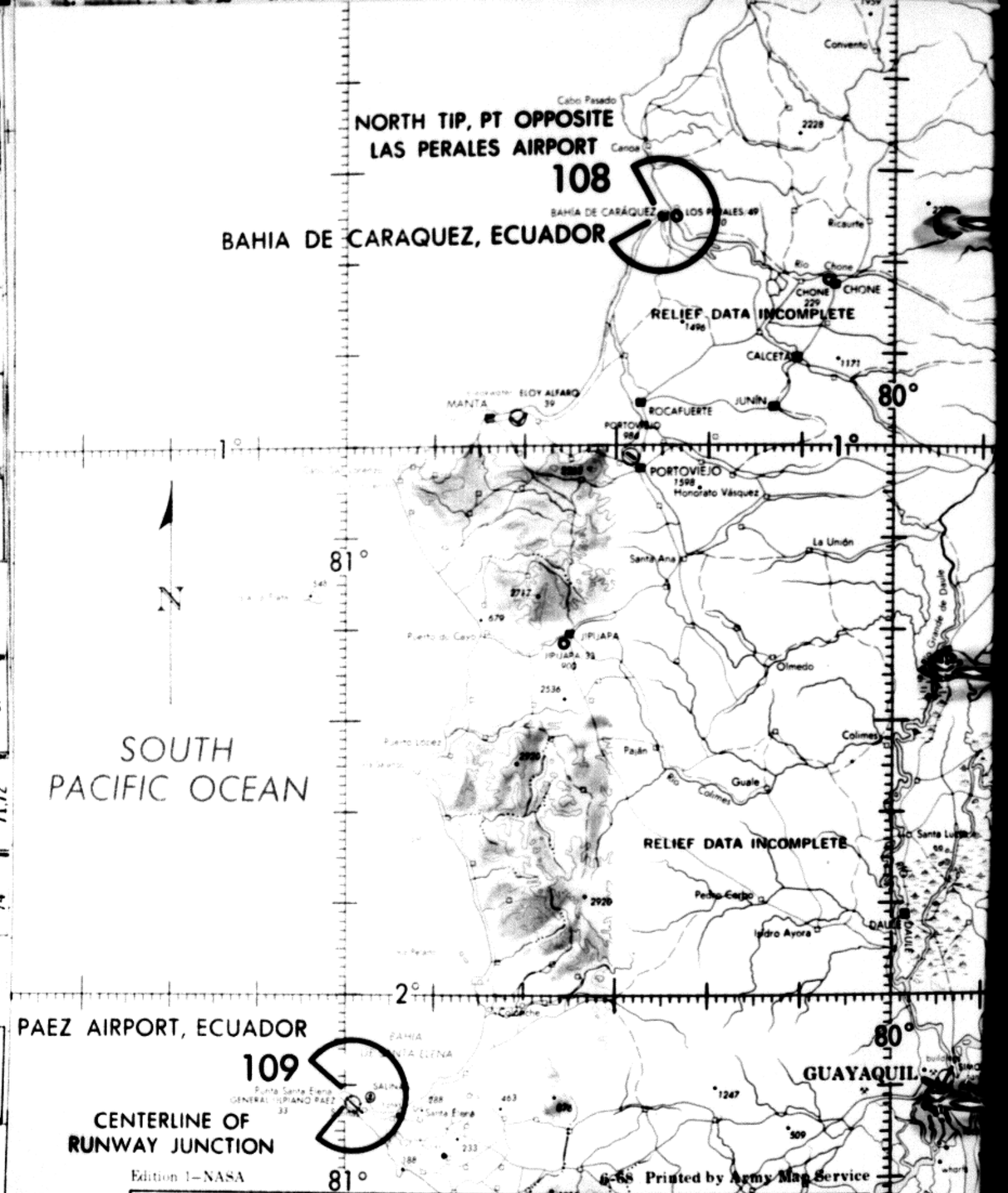
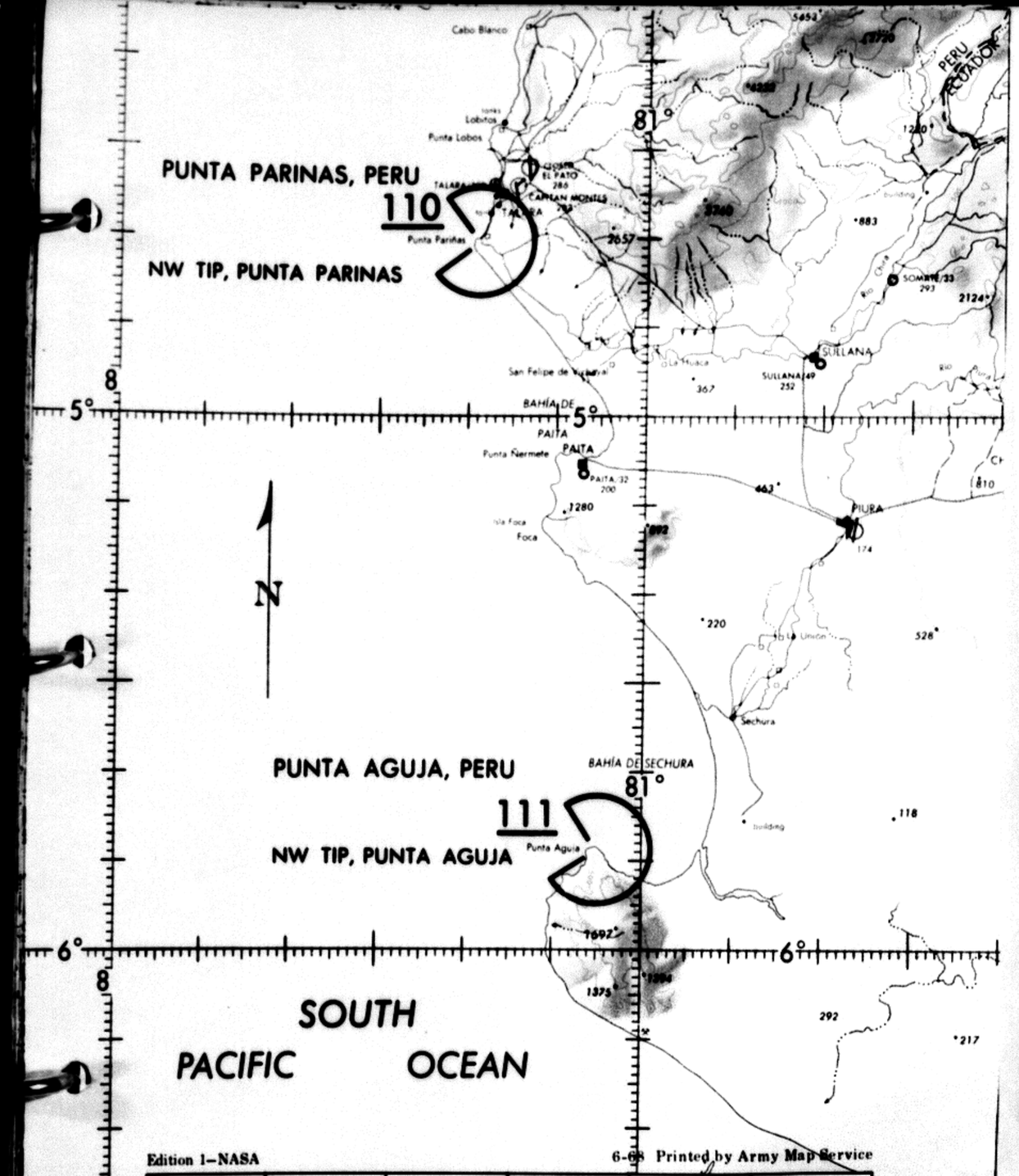
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
106	1.802°N	39.390°W	78.779°W	+0.02	±0.43
107	.961°N	39.812°W	79.625°W	+.01	±0.76



Edition 1–NASA

6-68 Printed by Army Map Service

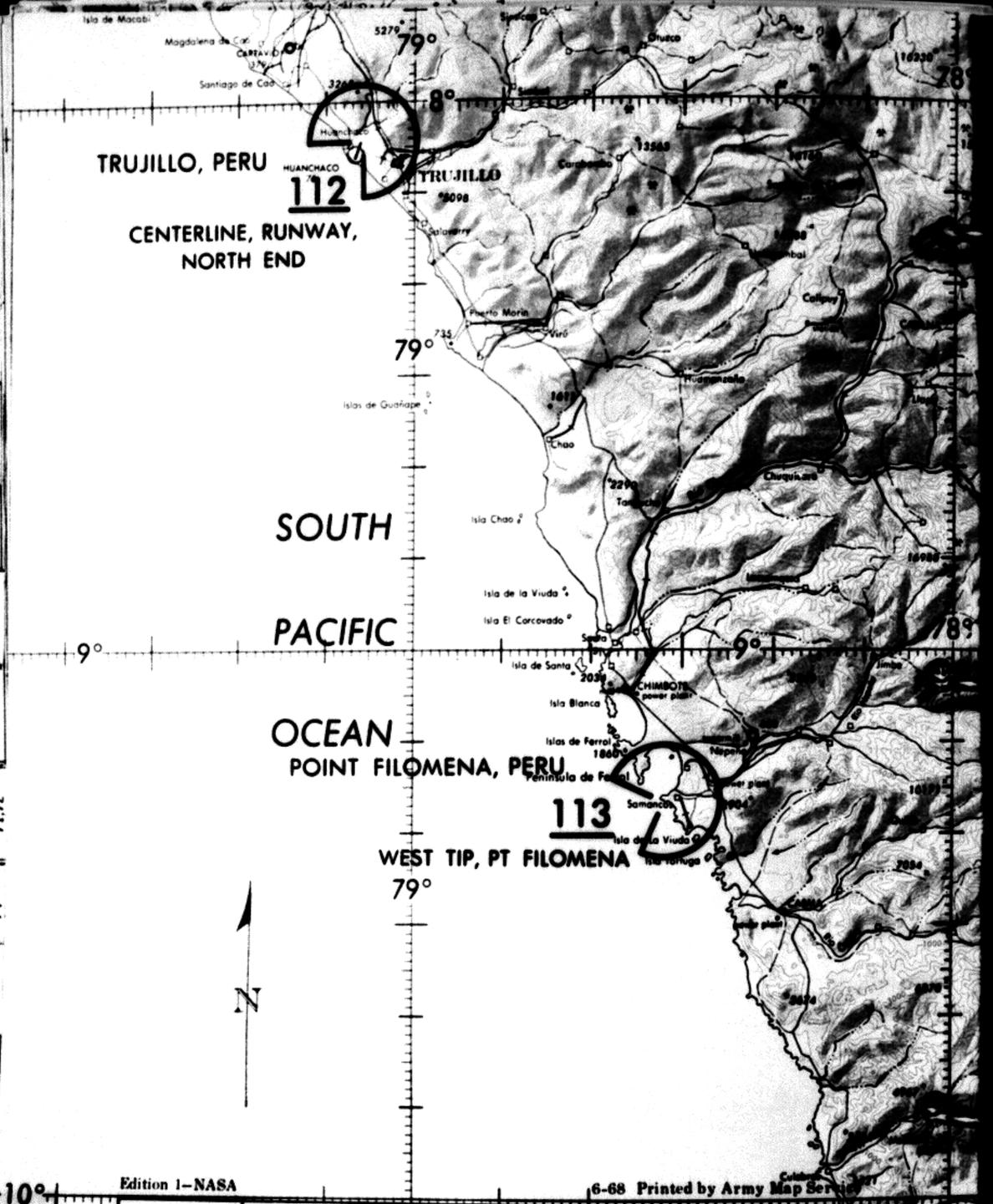
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
108	.594°S	40.214°W	80.427°W	+0.01	±0.68
109	2.204°S	40.496°W	80.993°W	+0.01	±0.03



Edition 1–NASA

6-68 Printed by Army Map Service

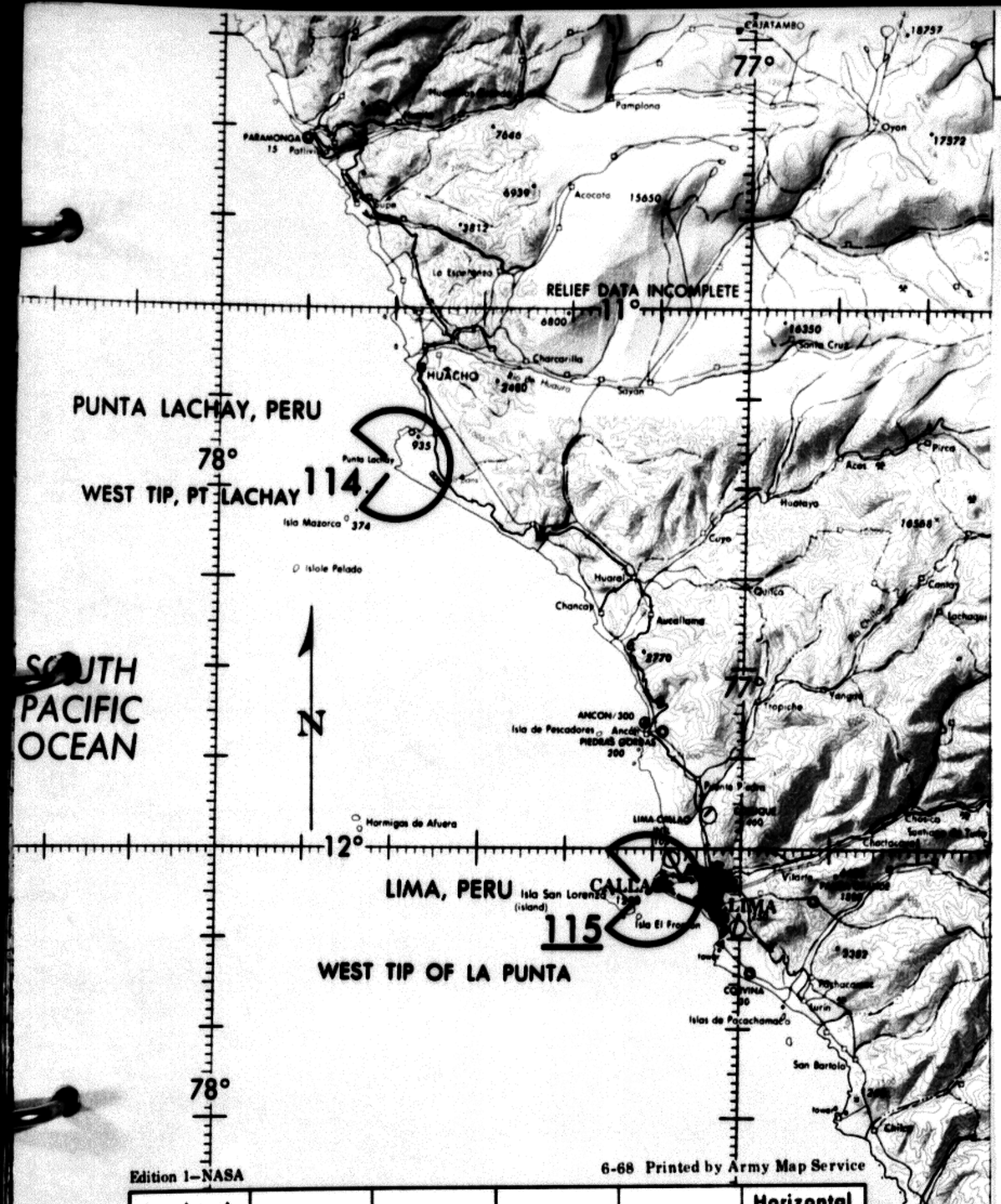
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
110	4.668°S	40.664°W	81.328°W	0.00	±0.04
111	5.809°S	40.554°W	81.107°W	0.00	±0.39



Edition 1–NASA

6-68 Printed by Army Map Service

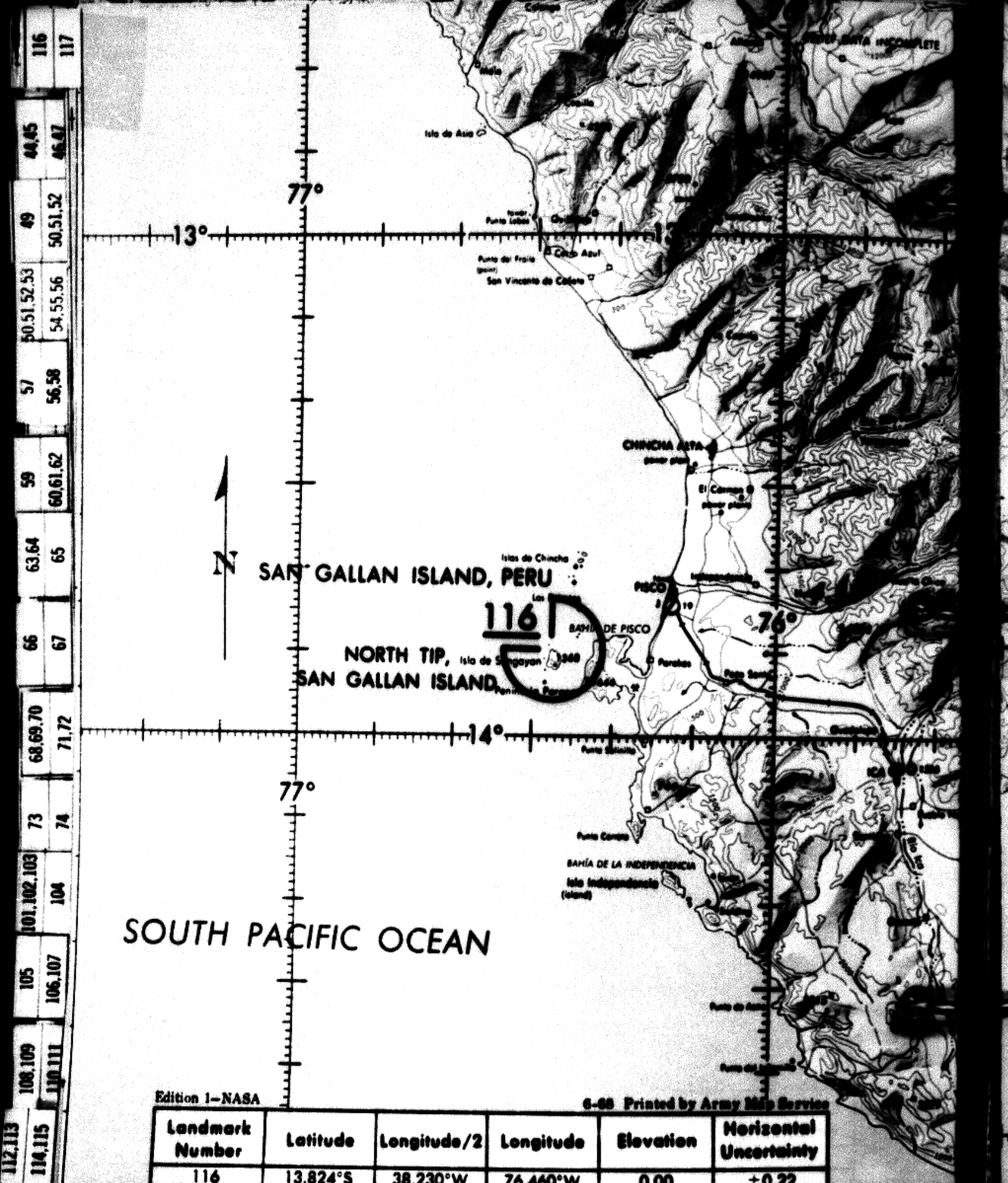
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
112	8.073°S	39.552°W	79.105°W	+0.02	±0.12
113	9.272°S	39.266°W	78.531°W	0.00	±0.22



Edition 1–NASA

6-68 Printed by Army Map Service

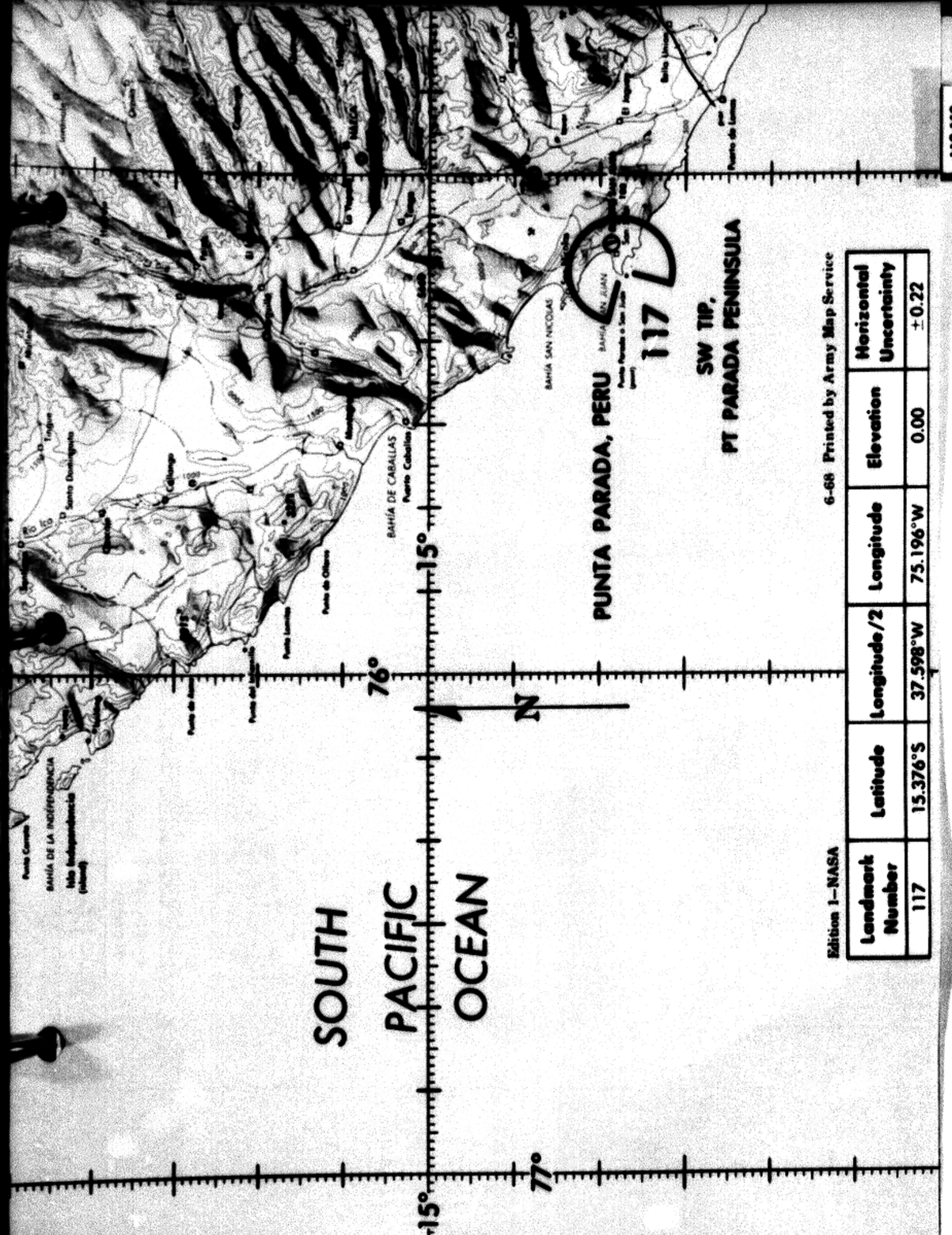
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
114	11.291°S	38.831°W	77.662°W	0.00	±0.98
115	12.072°S	38.584°W	77.168°W	0.00	±0.04

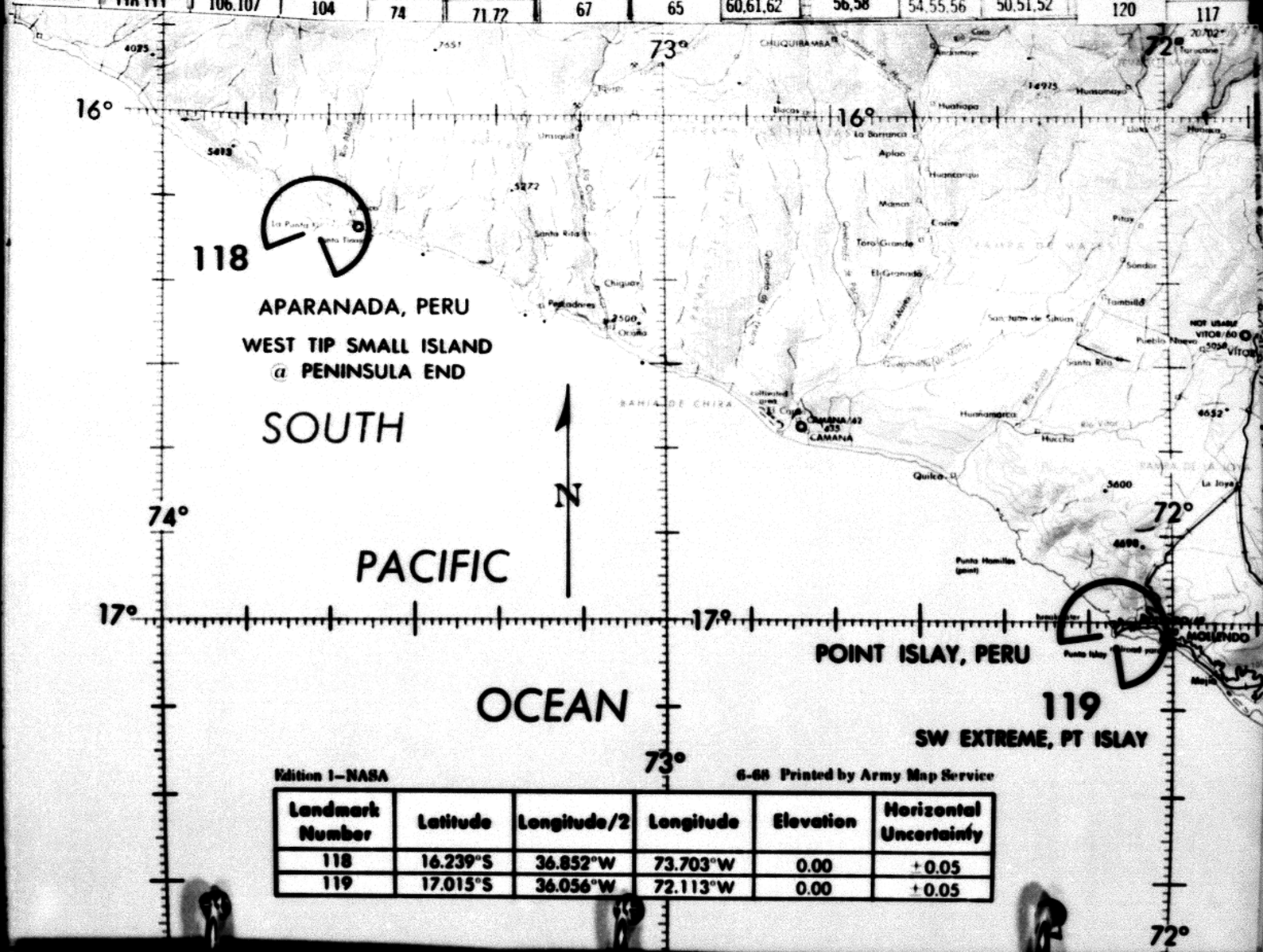


Edition 1—NASA

6-68 Printed by Army Map Service

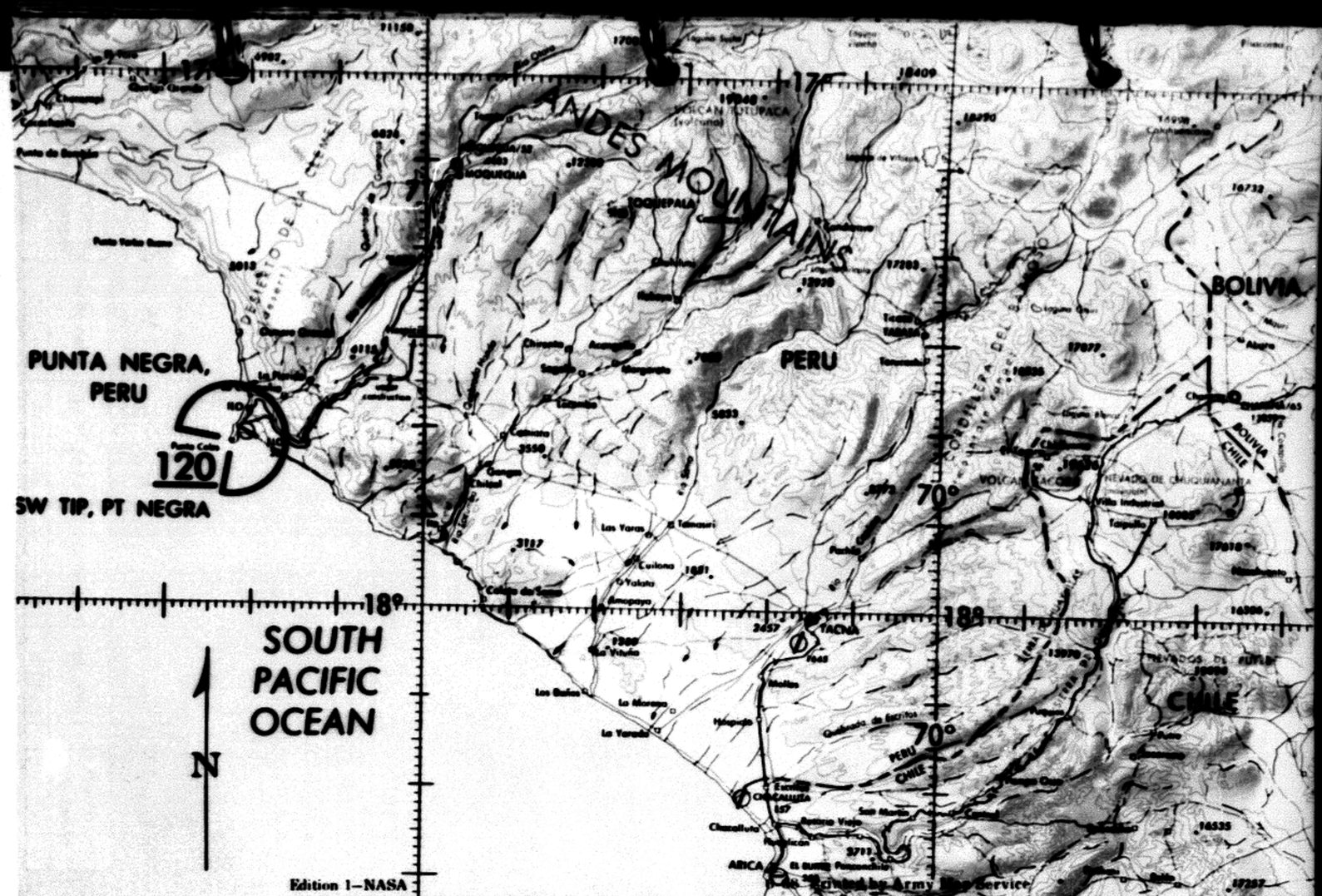
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
116	13.824°S	38.230°W	76.460°W	0.00	±0.22


PUNTA PARADA, PERU
117
SW TIP, PT PARADA PENINSULA
SOUTH PACIFIC OCEAN
BAHÍA DE CABALLAS
Puerto Caballas
BAHÍA SAN NICOLAS
BAHÍA DE LA INDEPENDENCIA
Isla Independencia (island)
Punta Corrales
Punta Lomas
Punta de Olleros
Punta del Lagarto
Punta Parada
Punta de Lomas
Santa Dominguito
Tinjan
Cañamp
Chiquitos
Chiquitos
Chiquitos



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



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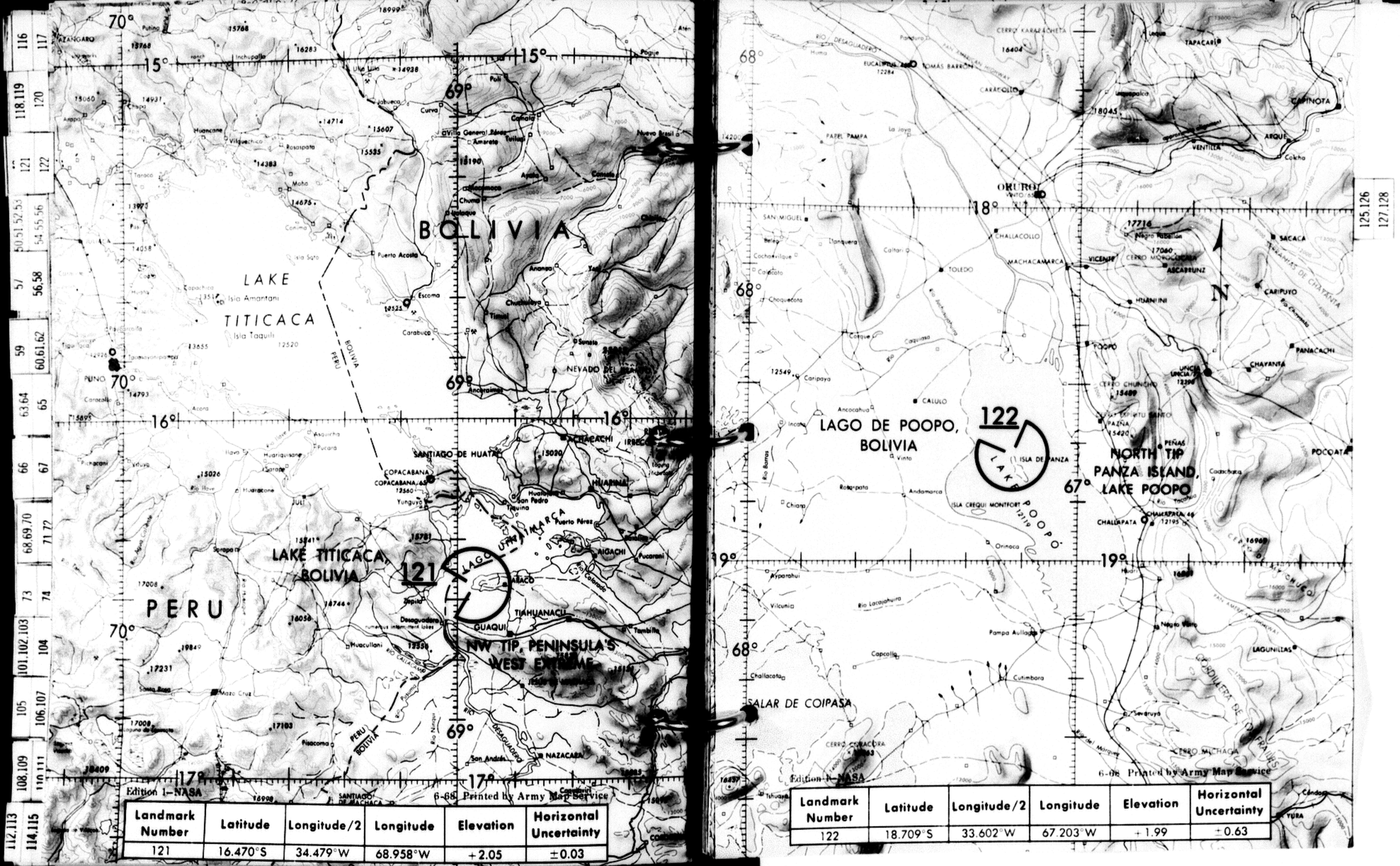
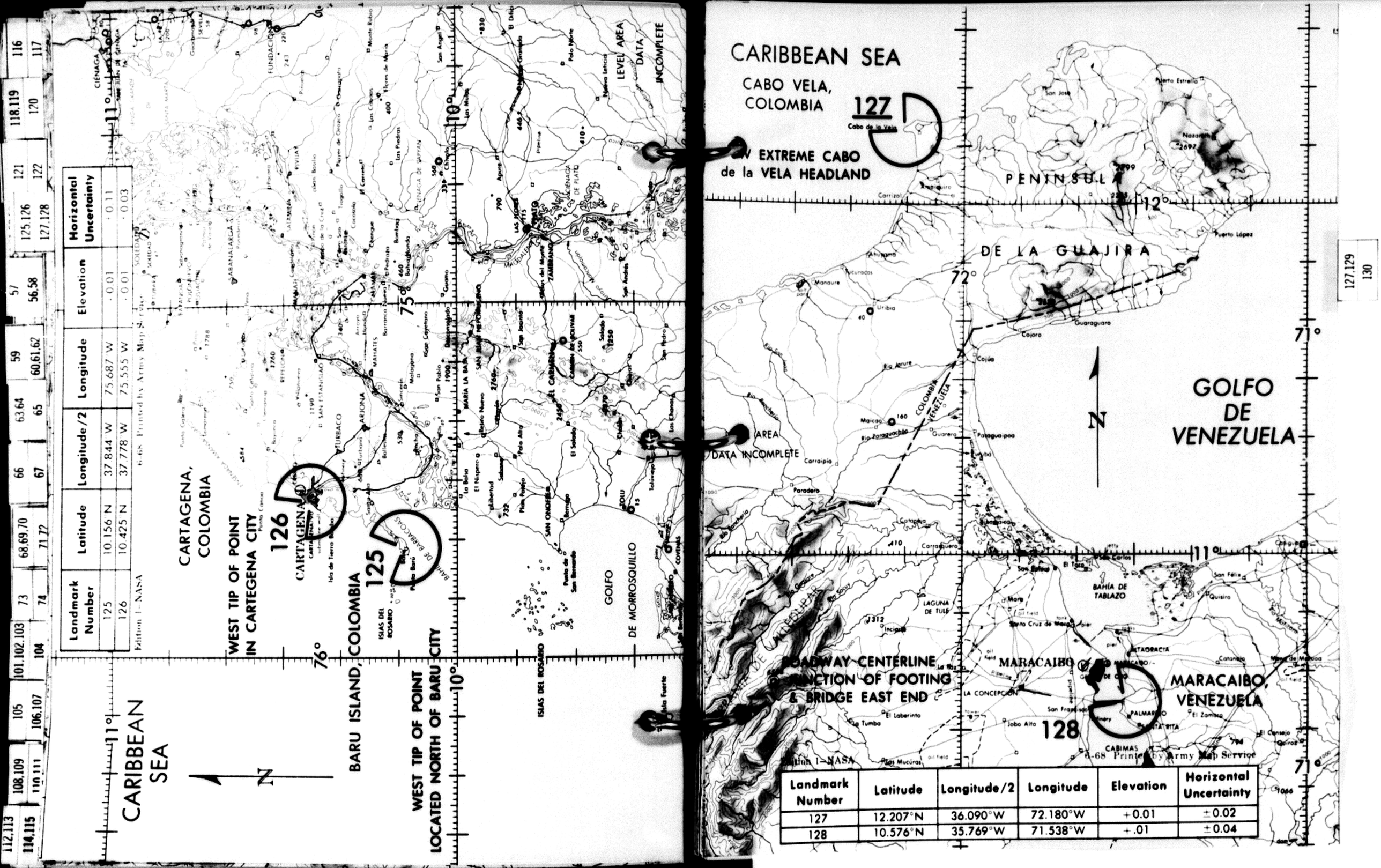
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
120	17.707°S	35.691°W	71.382°W	0.00	±0.05


LAKE TITICACA, BOLIVIA
121
PERU
BOLIVIA
LAKE TITICACA
Isla Amantani
Isla Taquili
PUNO
SANTIAGO DE HUATA
COPACABANA
NW TIP, PENINSULA'S WEST EXTREME
LAGO UMAYMARCA
TIAHUANACU
GUAQUI
NAZACARA
HUARINA
AIGACHI
Puerto Pérez
Tambillo
Pucarani
Villa General Pérez
Amarete
Tuilupi
Nuevo Brasil
Puerto Acosta
Escoma
Carabuco
Ancoraimes
Chulumani
Timusi
Ananea
Sorata
Huancané
Moho
Rosaspata
Tarabuco
Huacullani
Desaguadero
Zepita
Pisacoma
Santa Rosa
Mazo Cruz
Laguna de Titicaca
Río Desaguadero
Río Mauri
Río Caillavaqui
Río Pusuma
Río Suchez
Río Tiquina
Río Huarisuyane
Río Ilave
Río Aqua Calliente
Río Tacana
Río Tacana
Río Tacana



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

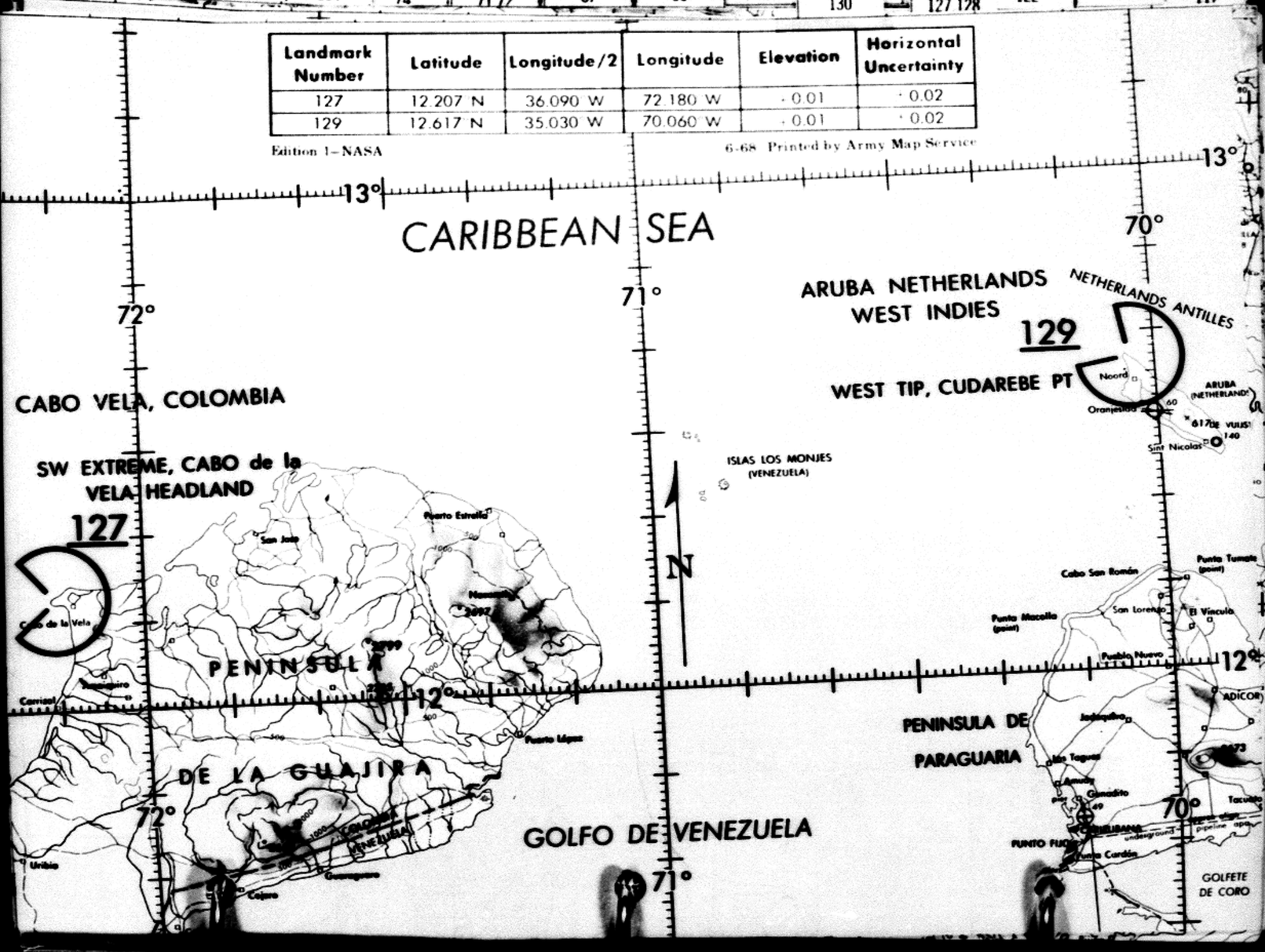
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
125	10.156 N	37.844 W	75.687 W	.0.01	.0.11
126	10.425 N	37.778 W	75.555 W	.0.01	.0.03

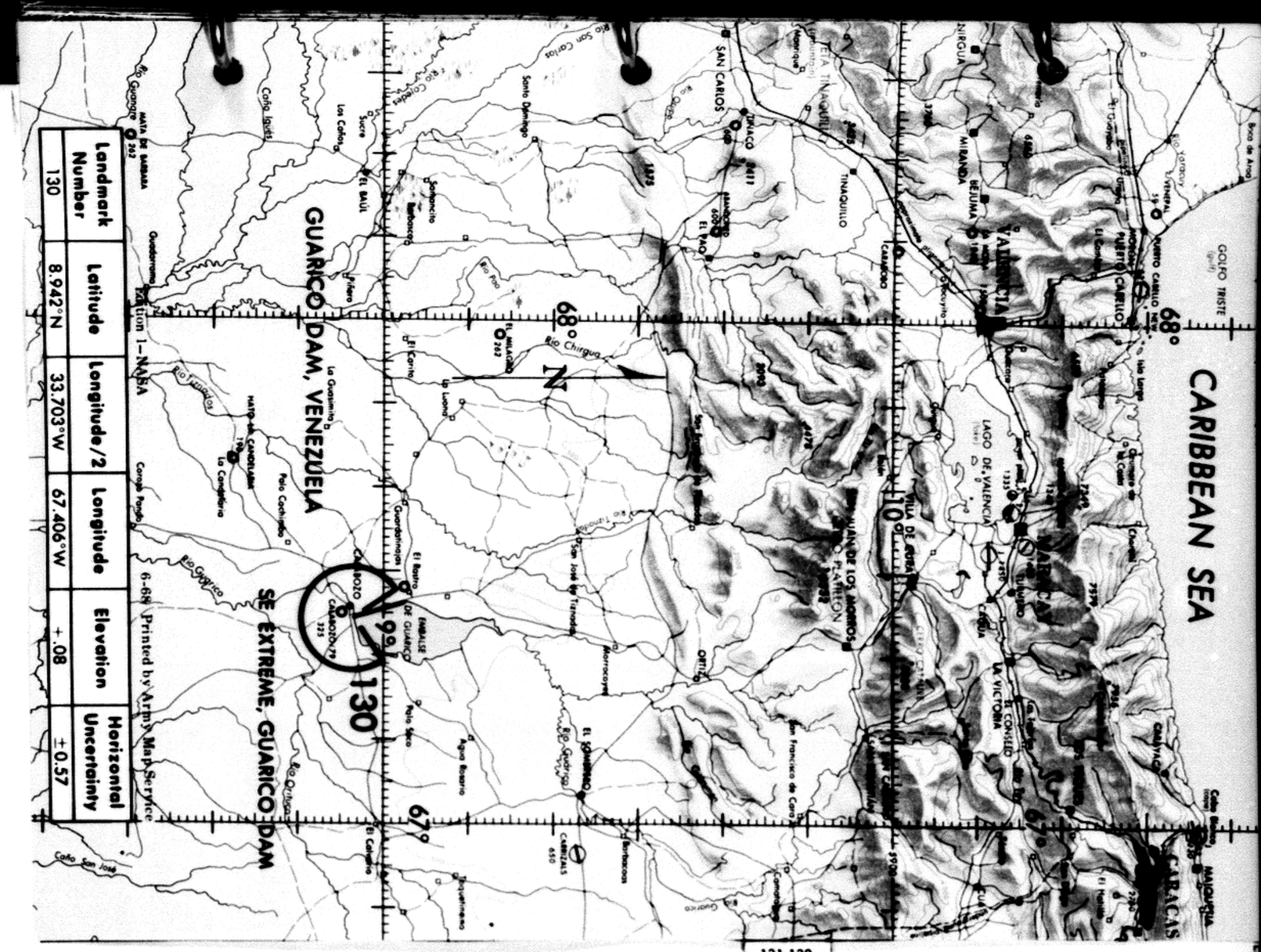
Edition 1-NASA 6-68 Printed by Army Map Service

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





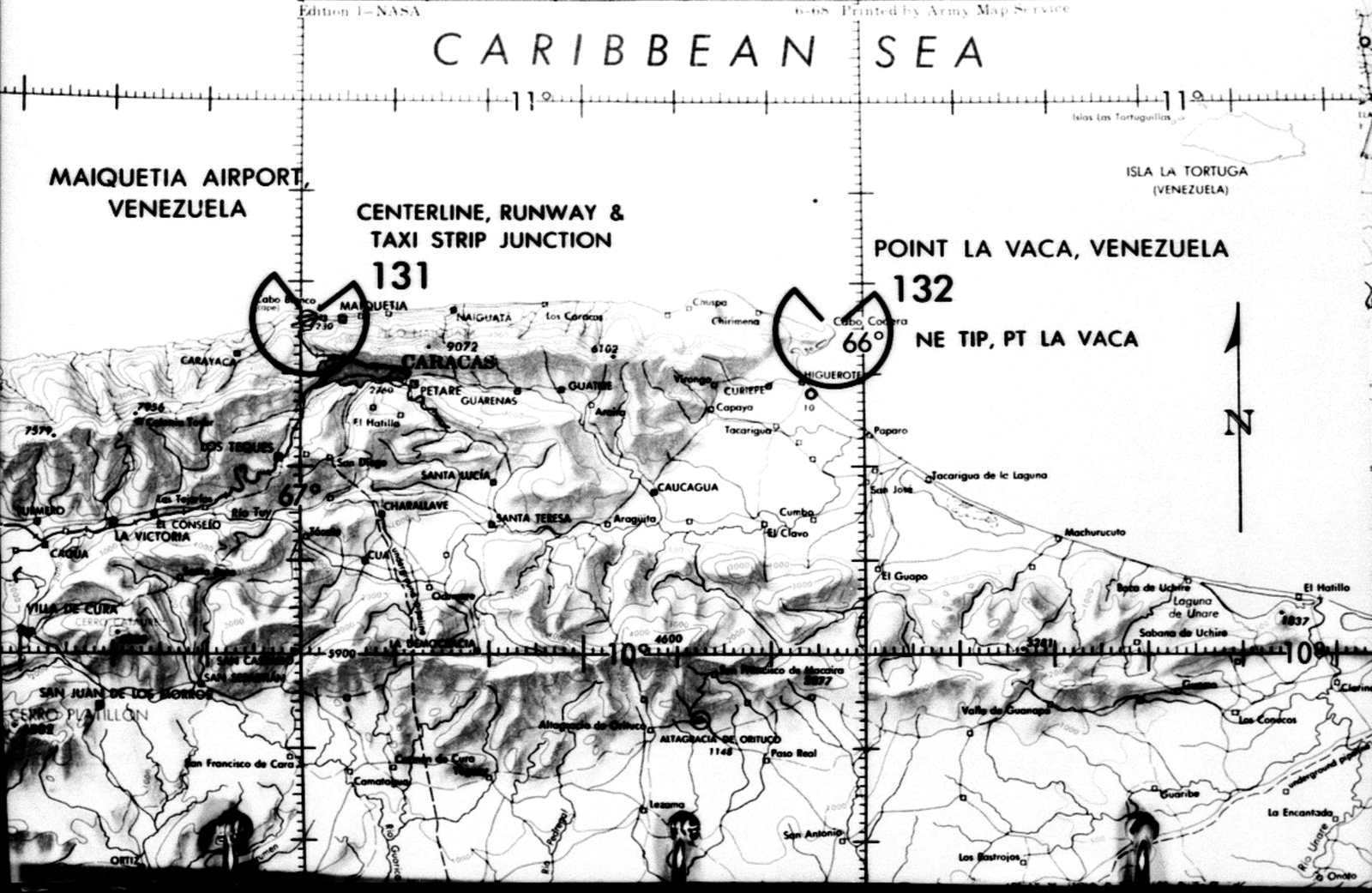
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
130	8.942°N	33.703°W	67.406°W	+.08	±0.57

Edition 1–NASA

6-68 Printed by Army Map Service

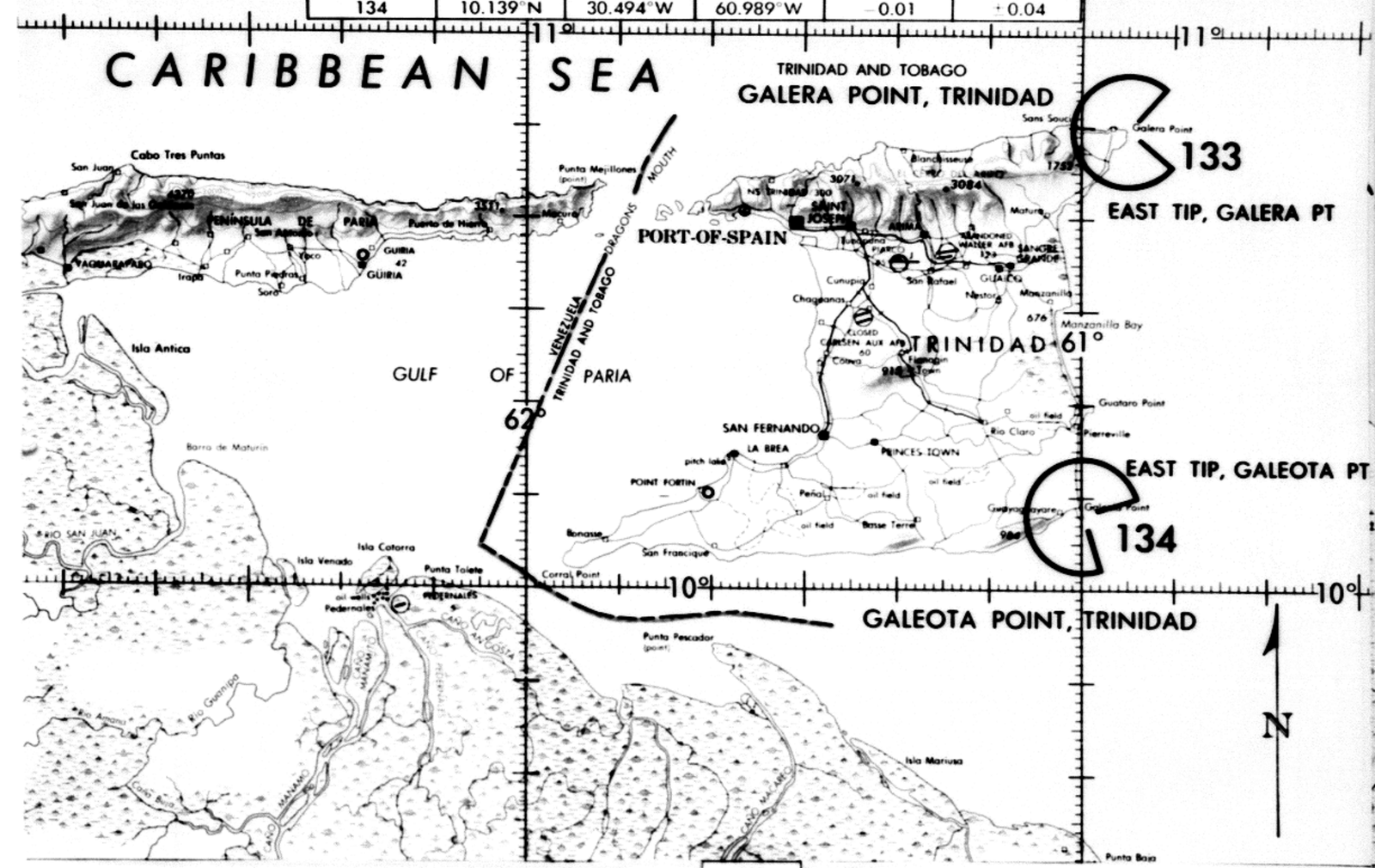
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
131	10.600 N	33.492 W	66.984 W	-.02	±0.02
132	10.584 N	33.028 W	66.055 W	0.00	±0.02

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

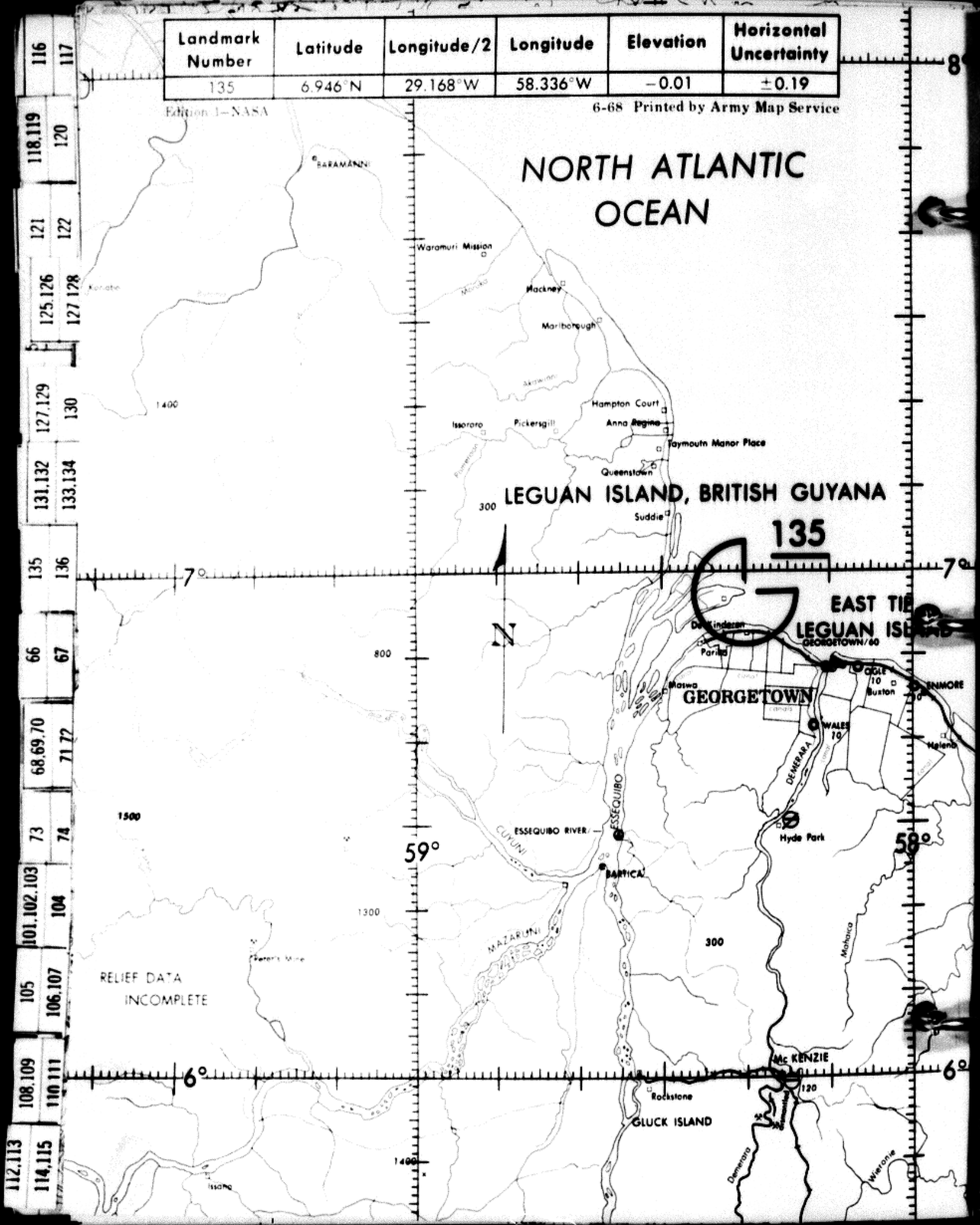


Edition 1—NASA 6-68 Printed by Army Map Service

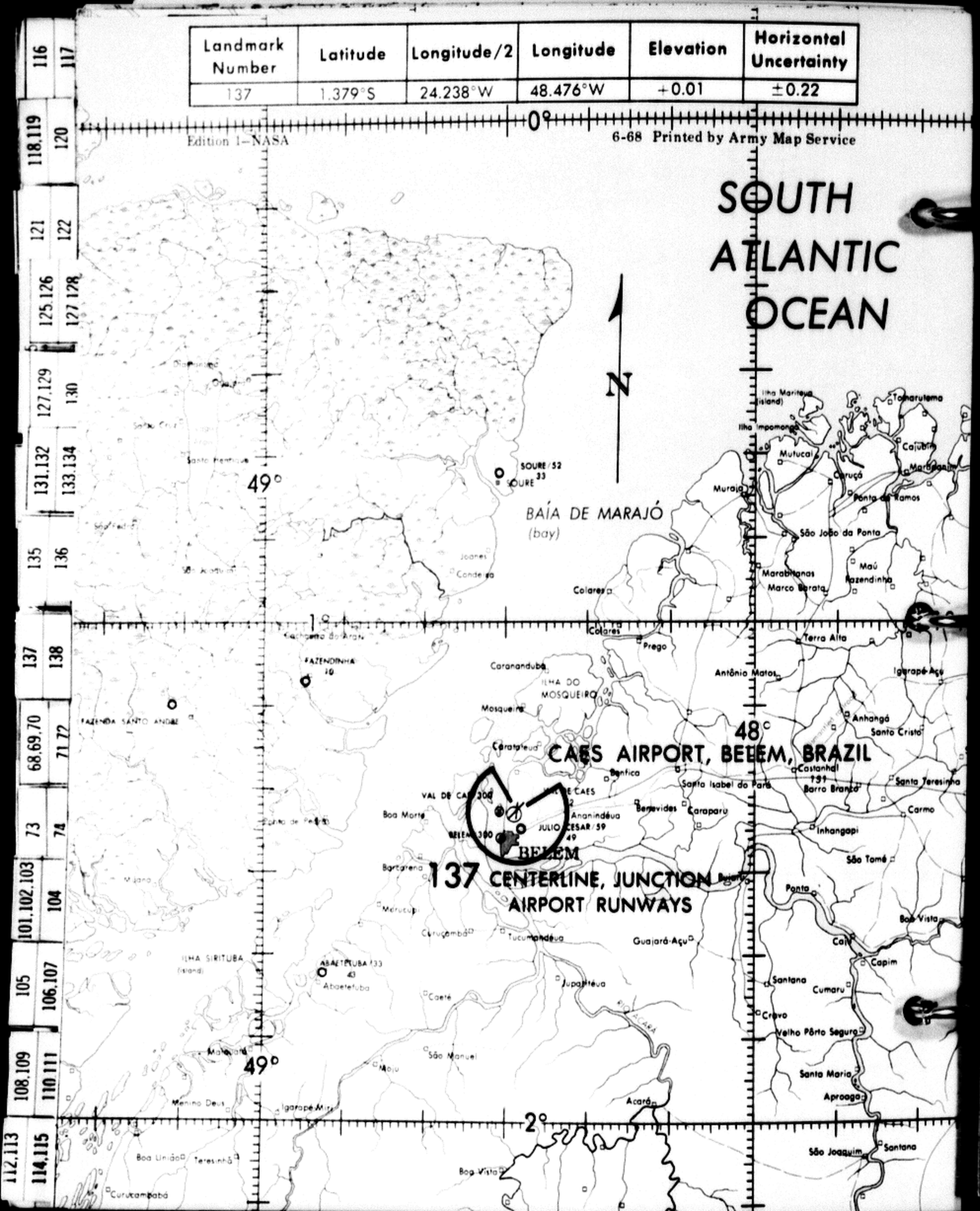
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
133	10.836°N	30.454°W	60.909°W	-0.01	±0.04
134	10.139°N	30.494°W	60.989°W	-0.01	±0.04

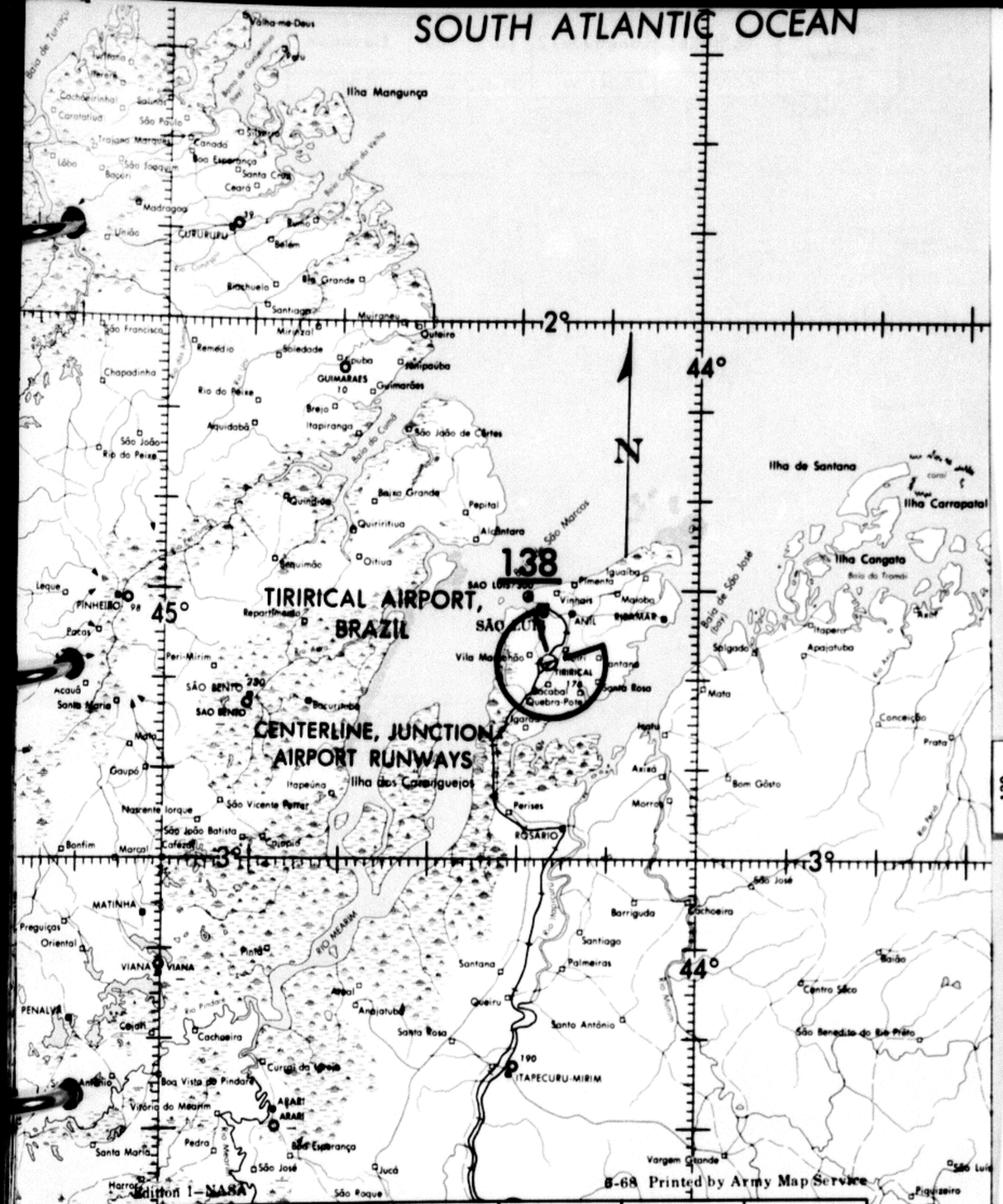


Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
135	6.946°N	29.168°W	58.336°W	−0.01	±0.19


Edition 1–NASA
6-68 Printed by Army Map Service
NORTH ATLANTIC OCEAN
LEGUAN ISLAND, BRITISH GUYANA
135
EAST TIP LEGUAN ISLAND
GEORGETOWN
GEORGETOWN/60
Waramuri Mission
Mackney
Marlborough
Hampton Court
Anna Regina
Taymouth Manor Place
Queenstown
Suddie
Issororo
Pickersgill
Parika
Hyde Park
ESSEQUIBO RIVER
ESSEQUIBO
BARTICA
MAZARUNI
CUYUNI
DEMERARA
Mahaica
Mc KENZIE
Rockstone
GLUCK ISLAND
Wieroonie
Demerara
RELIEF DATA INCOMPLETE
BARAMANNI
Kurabe
Issano
Peter's Mine
Mabaruma
Waini
Moruca
Aruau
Pomeroon
Mahaica
Mahaica Creek
Mahaica River
Demerara River
Wieroonie
Essequibo River
Cuyuni
Mazaruni
Rupununi
Rupununi River
Kwakwani
Tumatumari
Kamarang
Kaikan
Mahdia
Potaro
Potaro River
Kaiteur
Kaiteur Falls
Tukeit
Tukeit Falls
Kaiteur Falls
Kaiteur Falls
Kaiteur

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



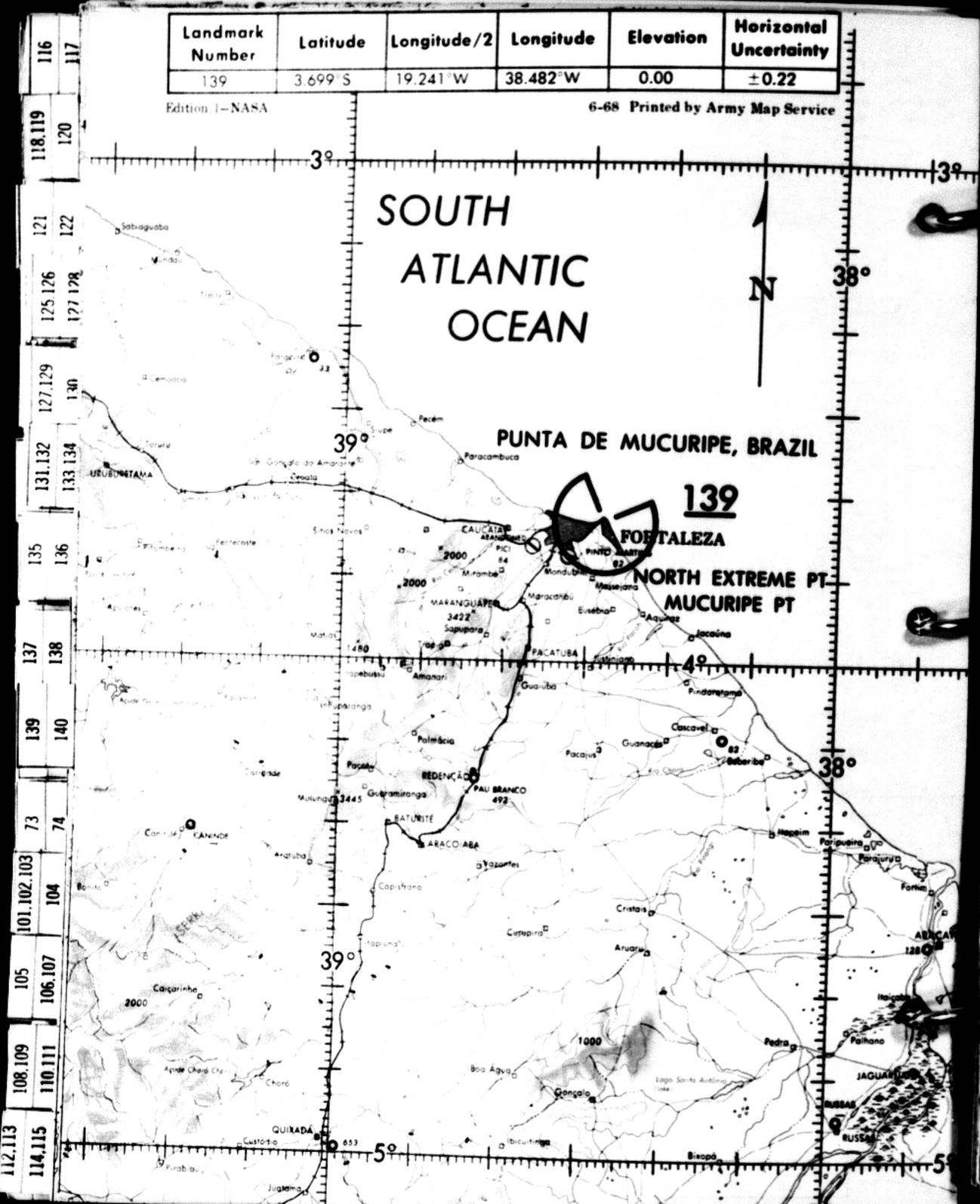


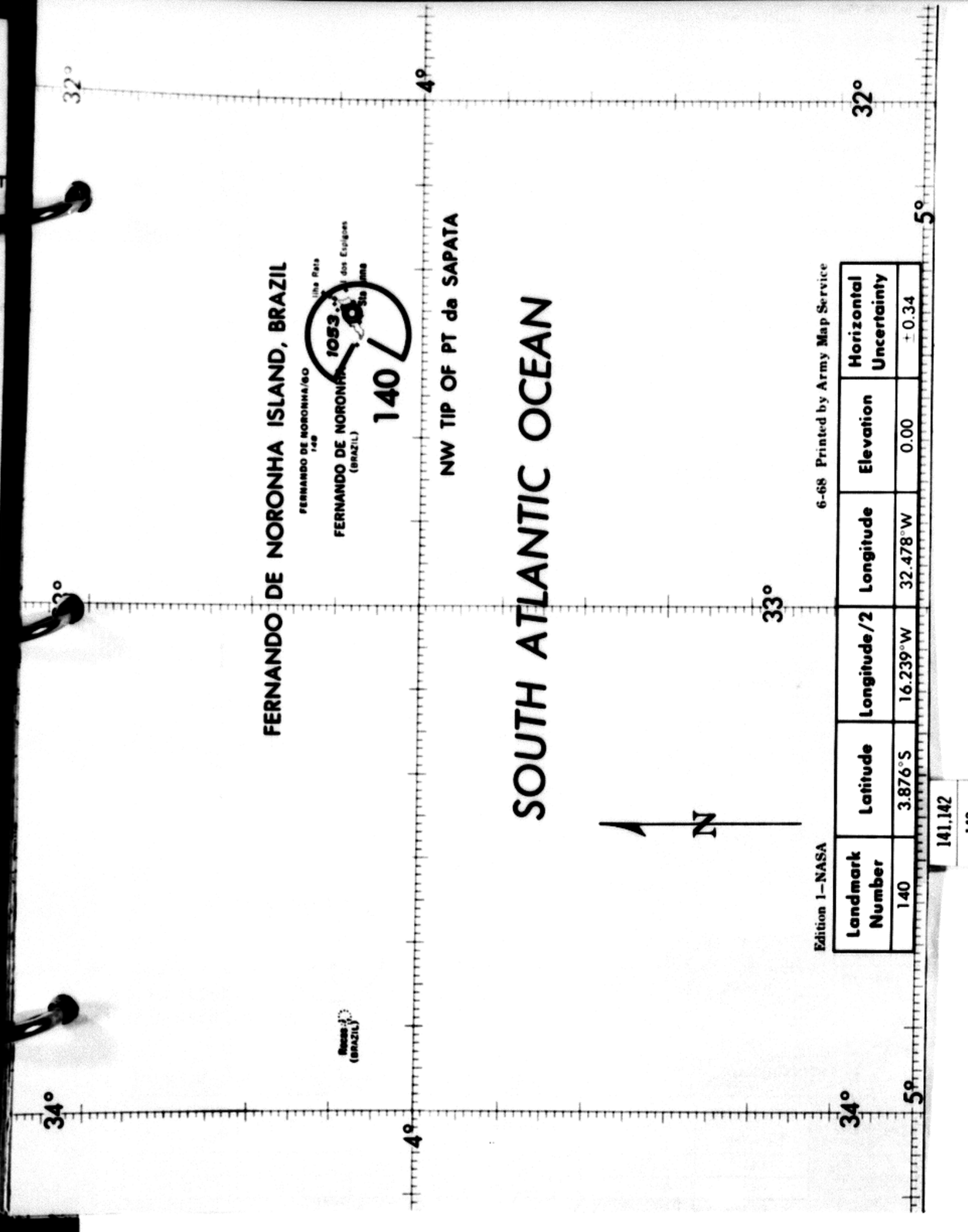
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
138	2.587°S	22.118°W	44.236°W	+0.03	±0.22

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

Edition 1–NASA

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

RECIFE, BRAZIL

143

NE TIP, BREAKWATER

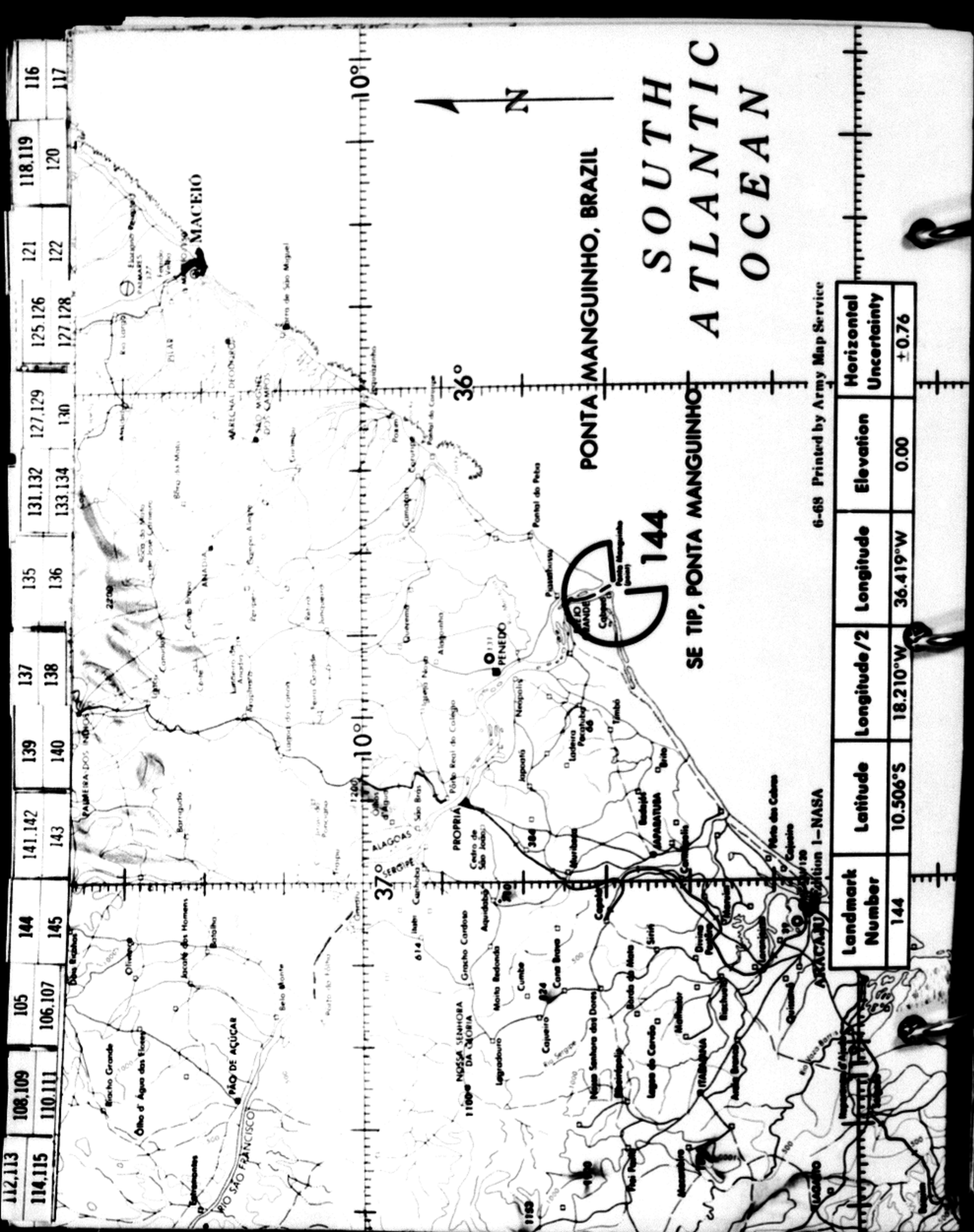
SOUTH ATLANTIC OCEAN

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

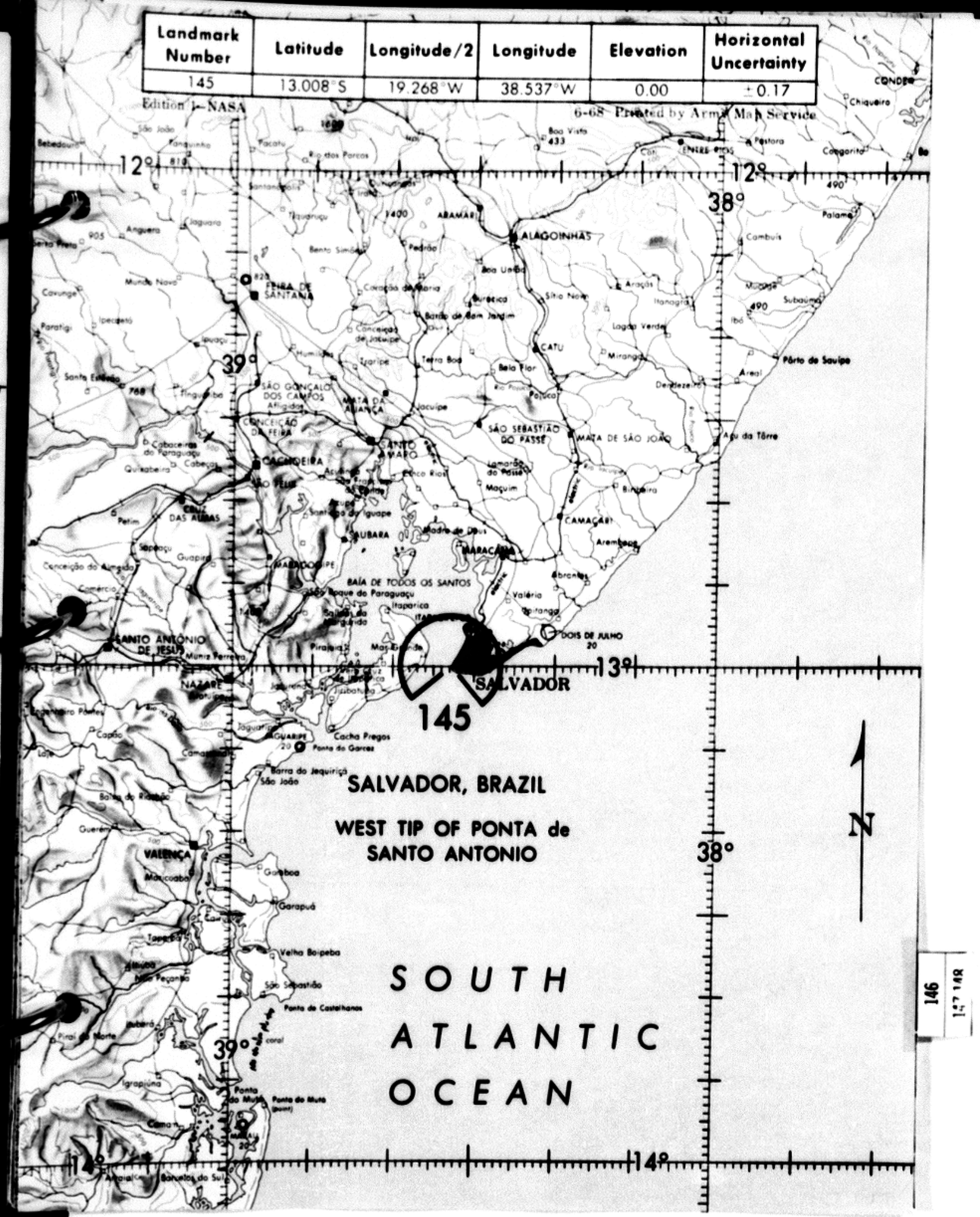
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
143	8.048°S	17.430°W	34.859°W	0.00	±0.22



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

6-68 Printed by Army Map Service

Edition 1–NASA

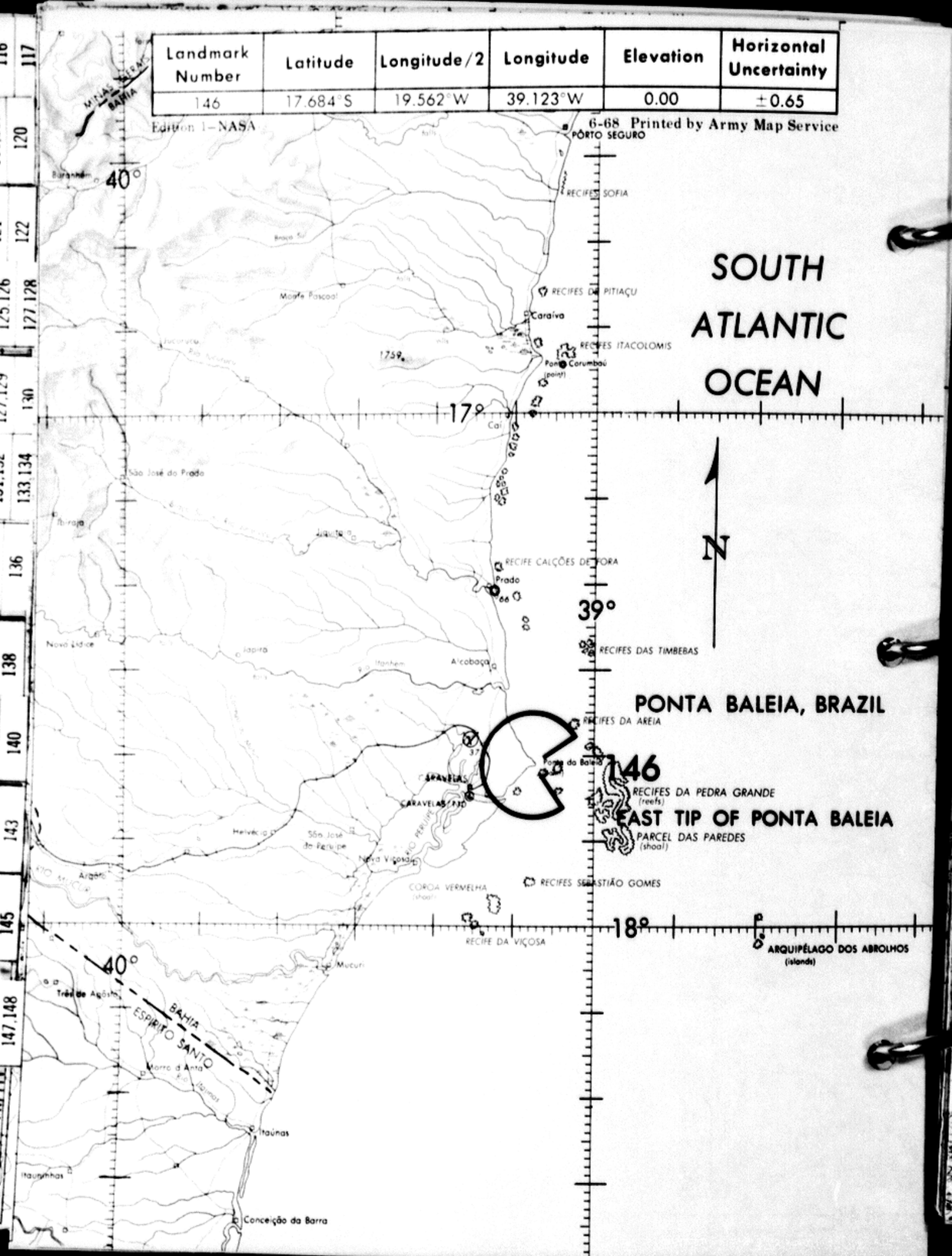


Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
145	13.008°S	19.268°W	38.537°W	0.00	±0.17

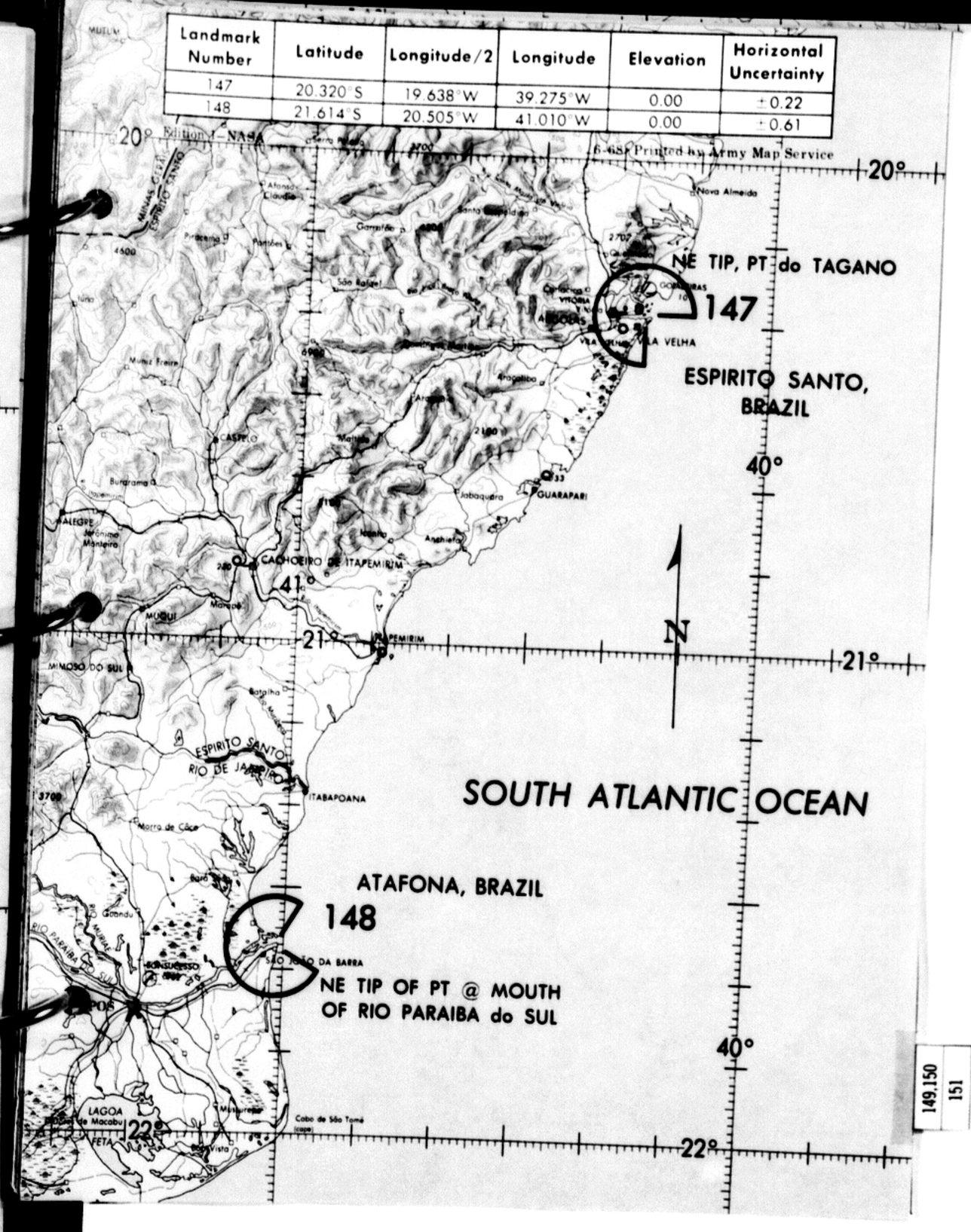
Edition 1–NASA

6-68 Printed by Army Map Service

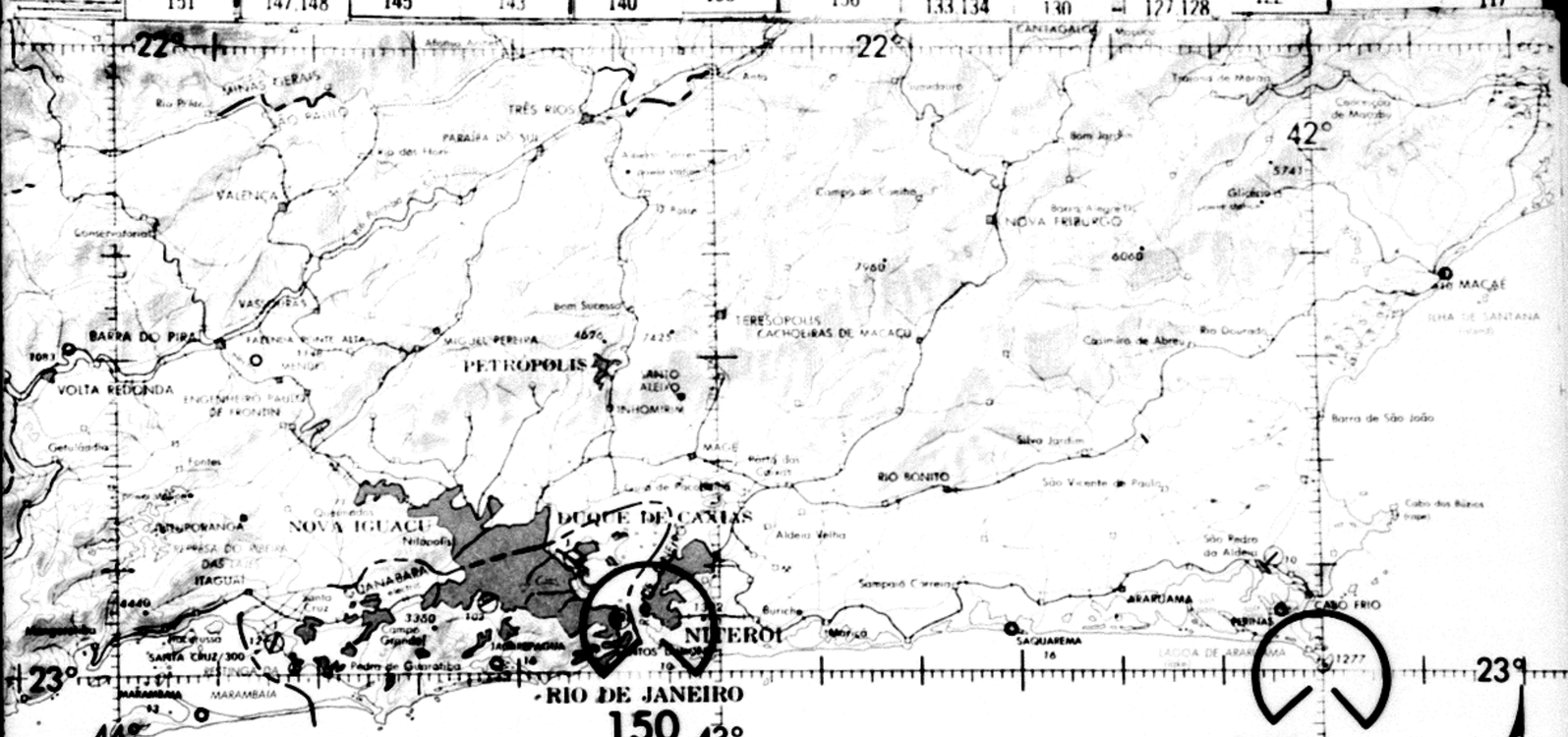
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
146	17.684°S	19.562°W	39.123°W	0.00	±0.65



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



149,150
151



150

RIO DE JANEIRO, BRAZIL

WEST TIP OF FORT SANTA CRUZ
@ GUANA BARA BAY

149

CABO FRIO ISLAND, BRAZIL

SOUTH TIP OF ILHA
do CABO FRIO

SOUTH ATLANTIC OCEAN

Edition 1—NASA

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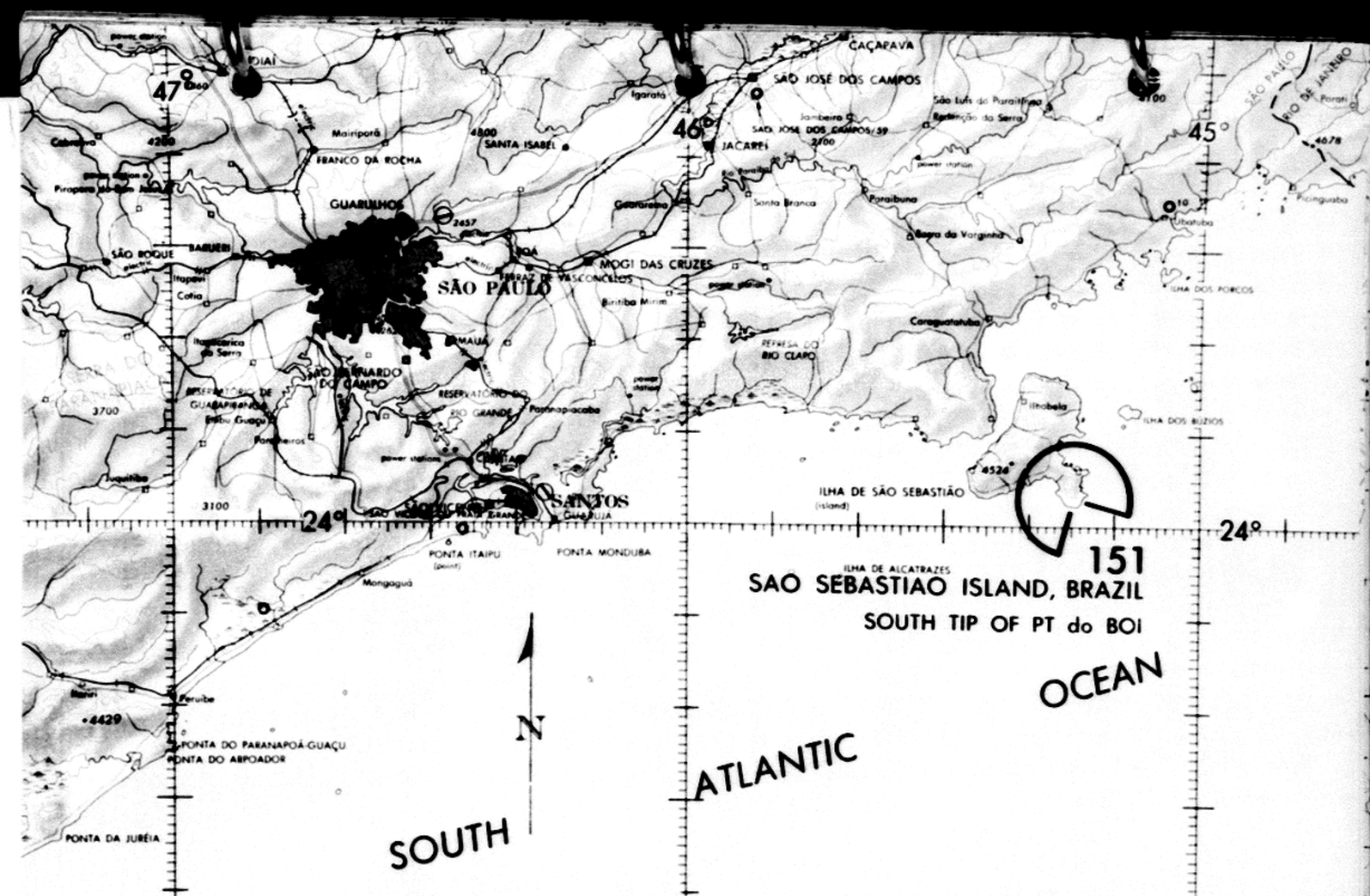
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
149	23.014°S	21.002°W	42.004°W	0.00	±0.24
150	22.937°S	21.568°W	43.135°W	0.00	±0.37



151

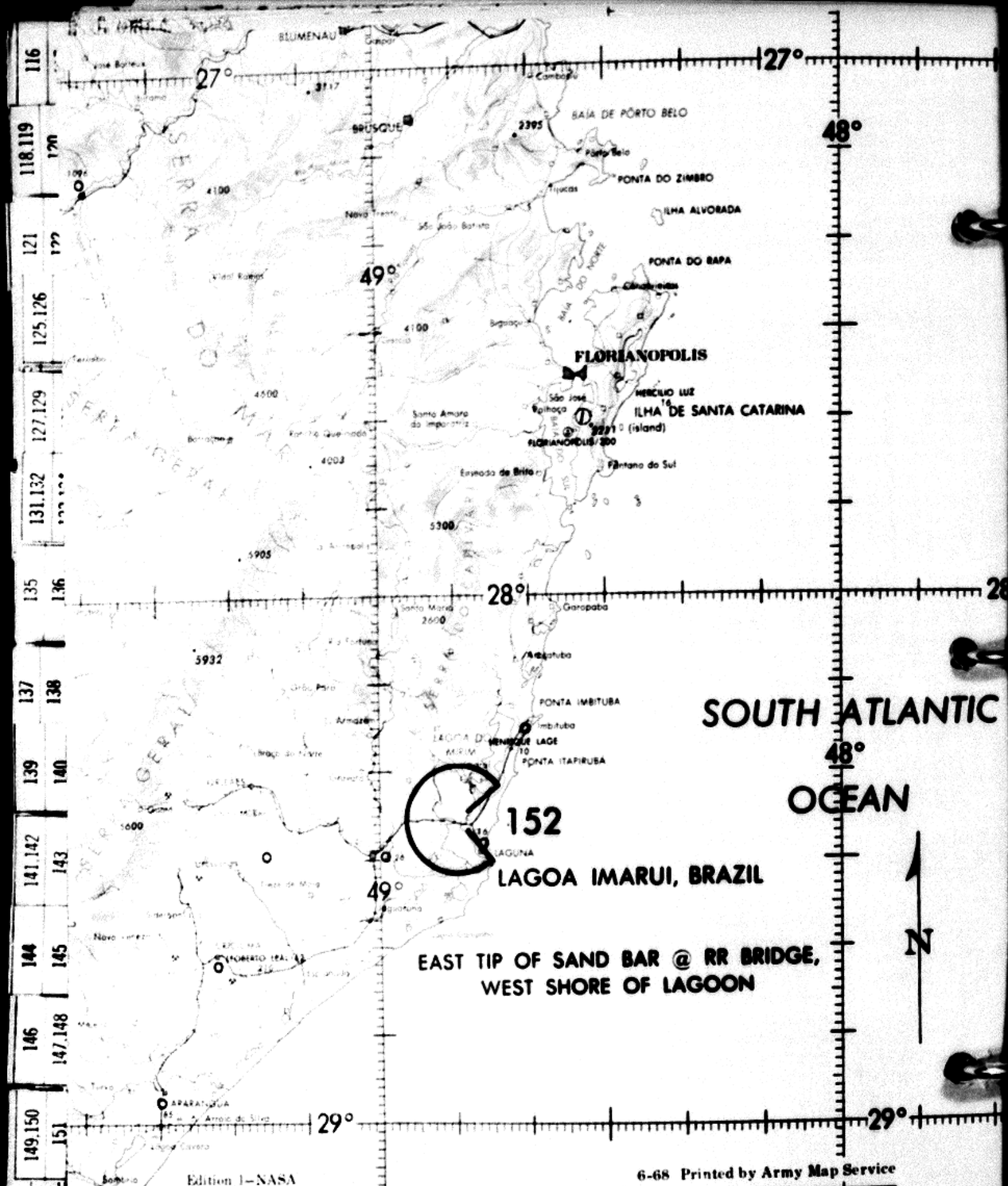
SAO SEBASTIAO ISLAND, BRAZIL

SOUTH TIP OF PT do BOI

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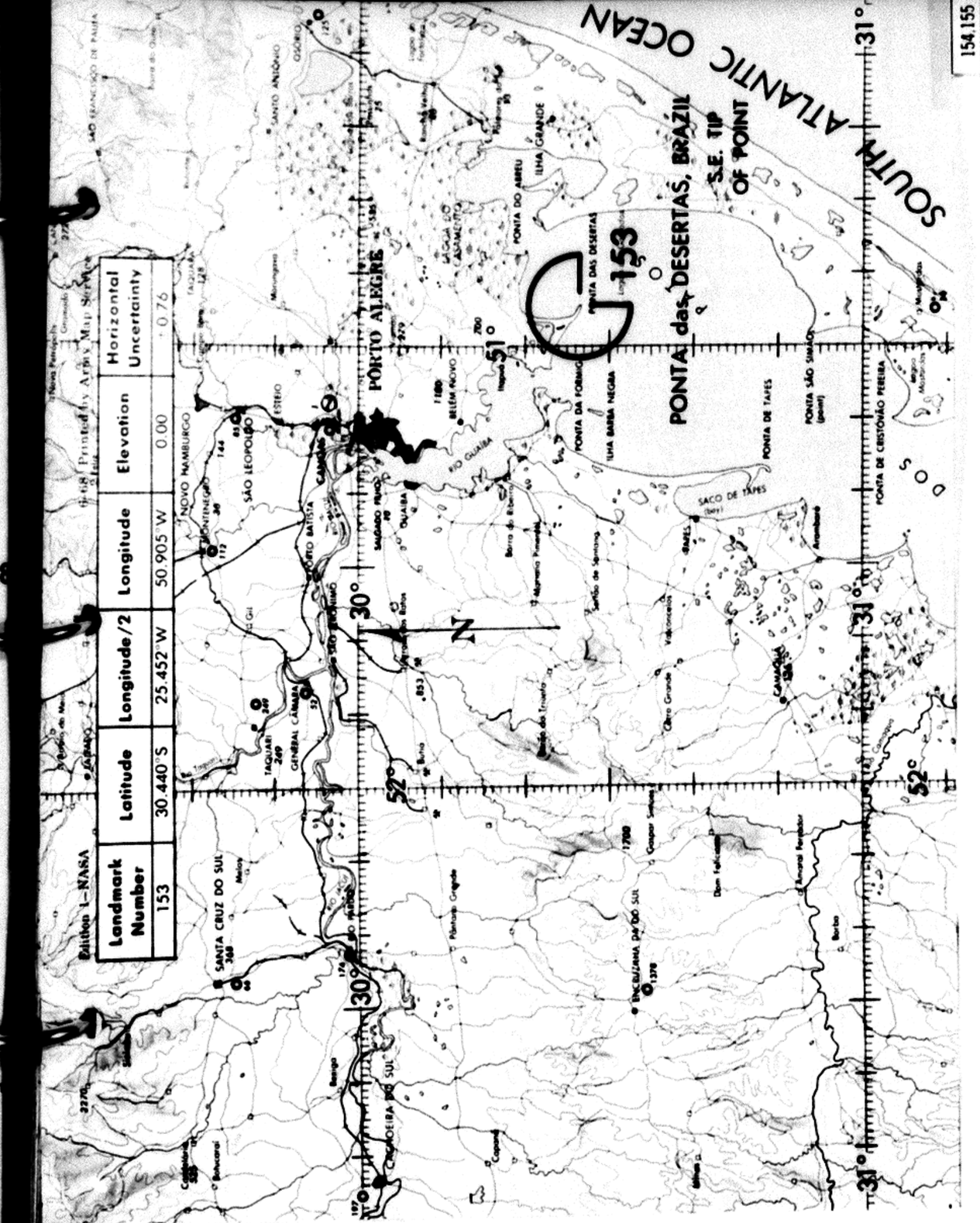
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
152	28.421°S	24.418°W	48.835°W	0.00	±0.36



Edition 1—NASA

6-68 Printed by Army Map Service

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

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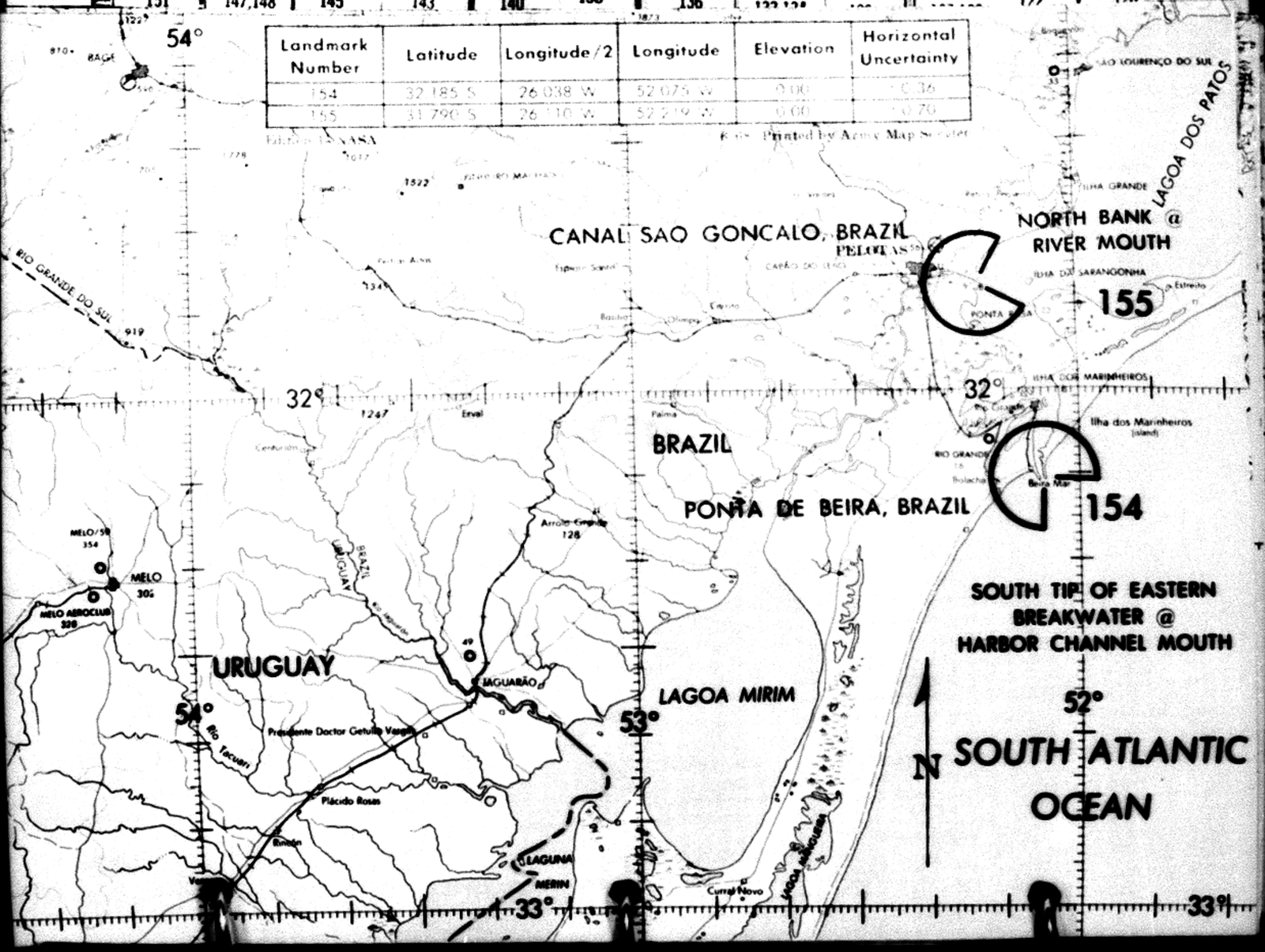
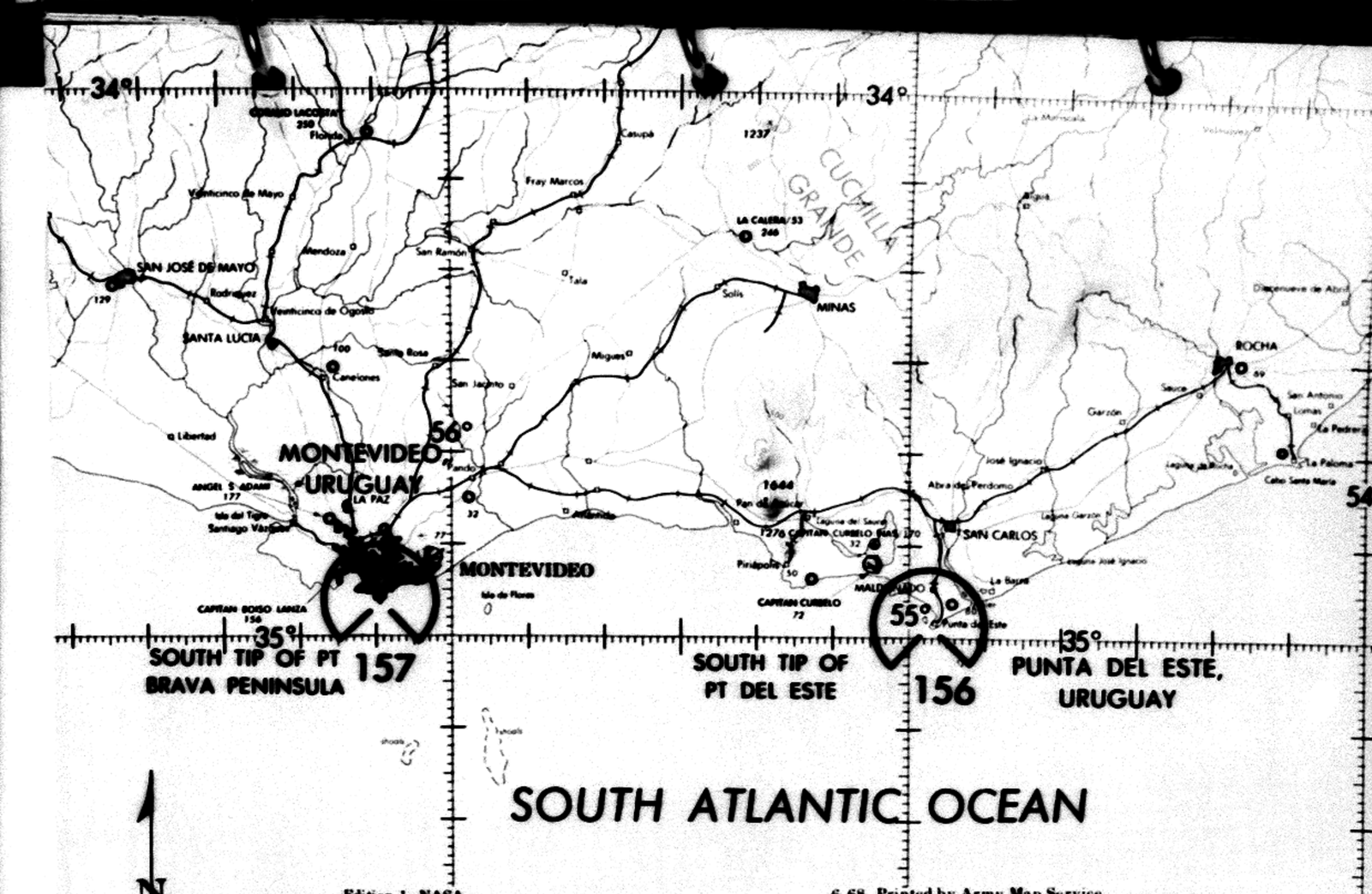
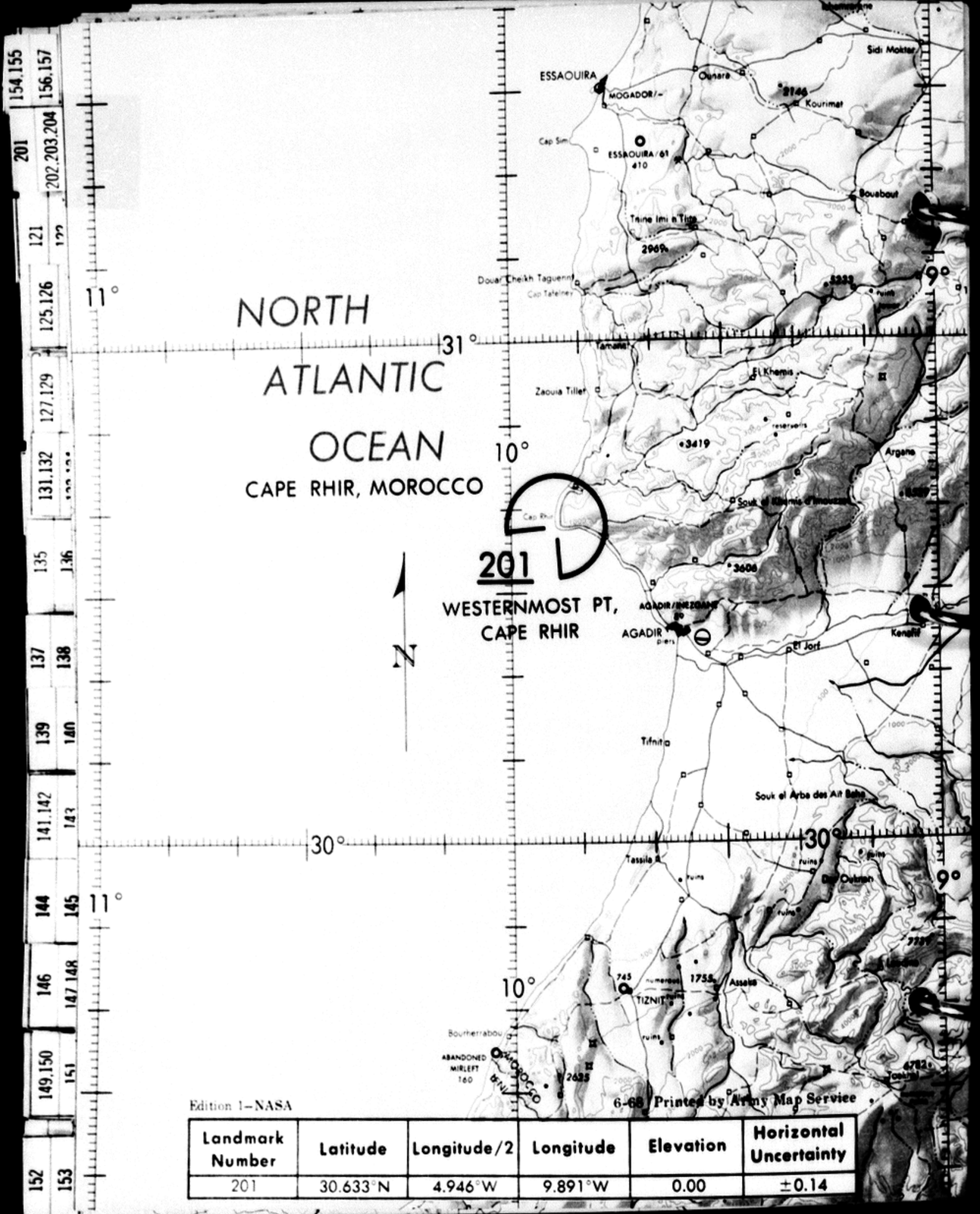


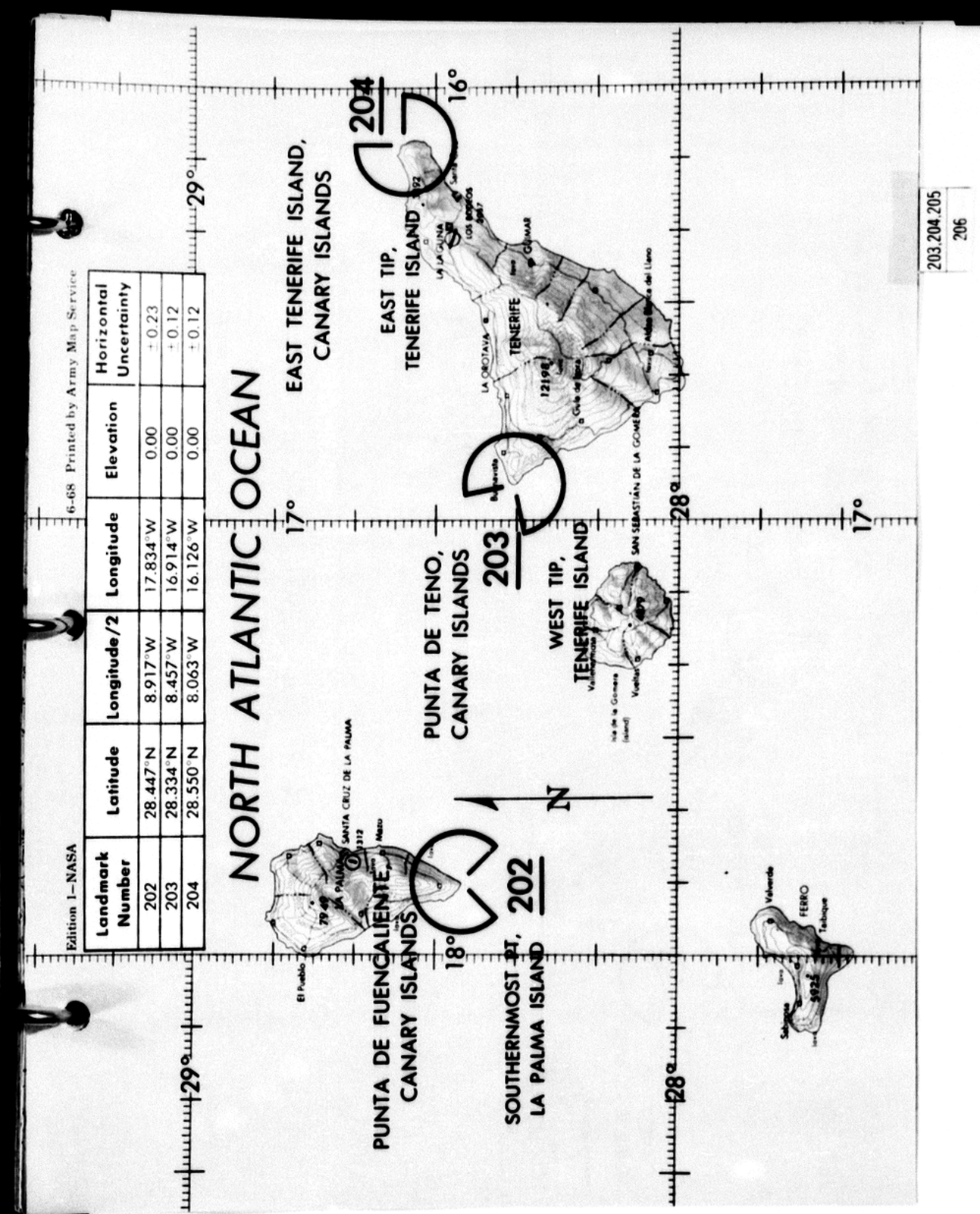


Edition 1—NASA 6-68 Printed by Army Map Service

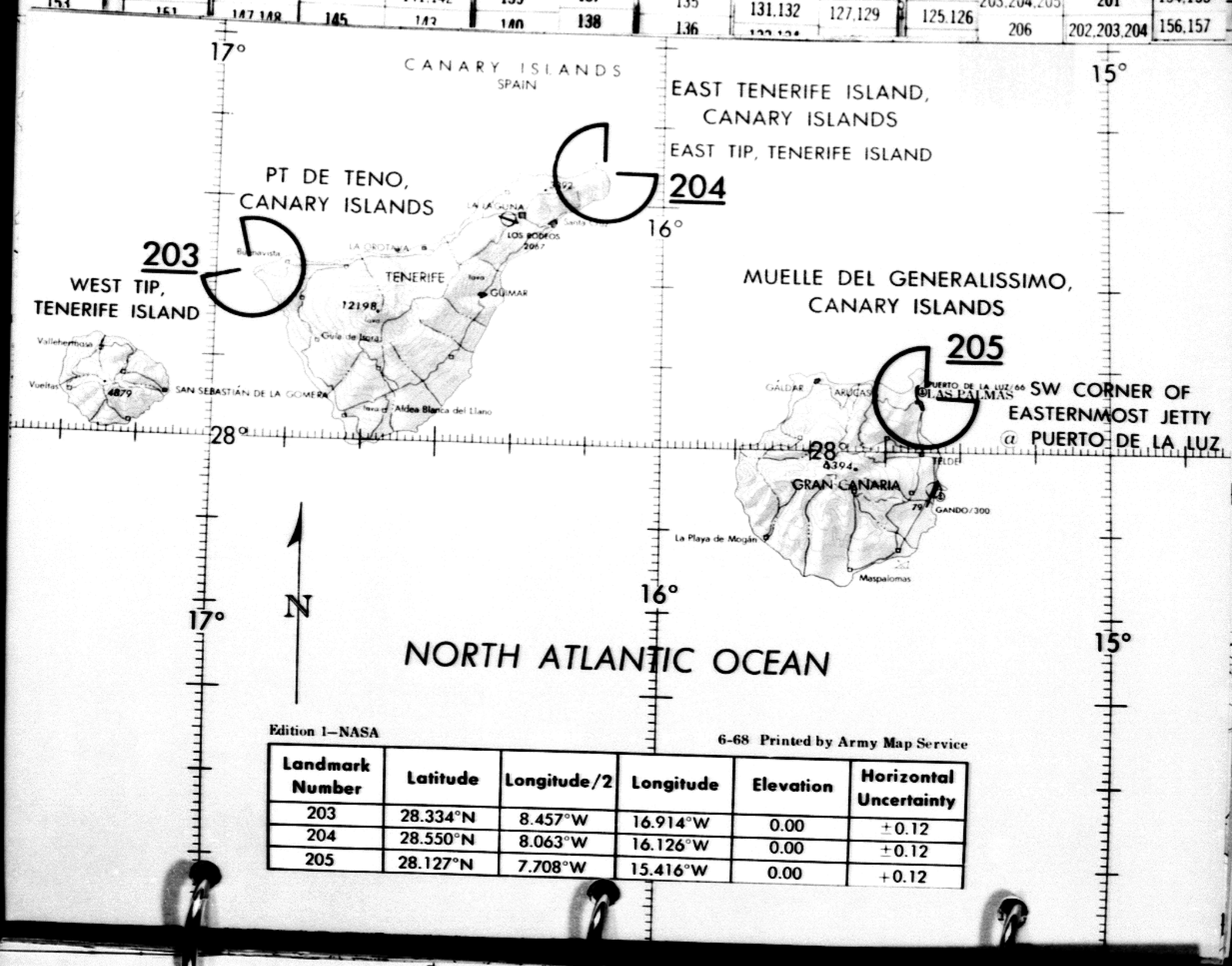
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
156	34.978°S	27.476°W	54.951°W	0.00	±0.37
157	34.939°S	28.080°W	56.159°W	0.00	±0.37



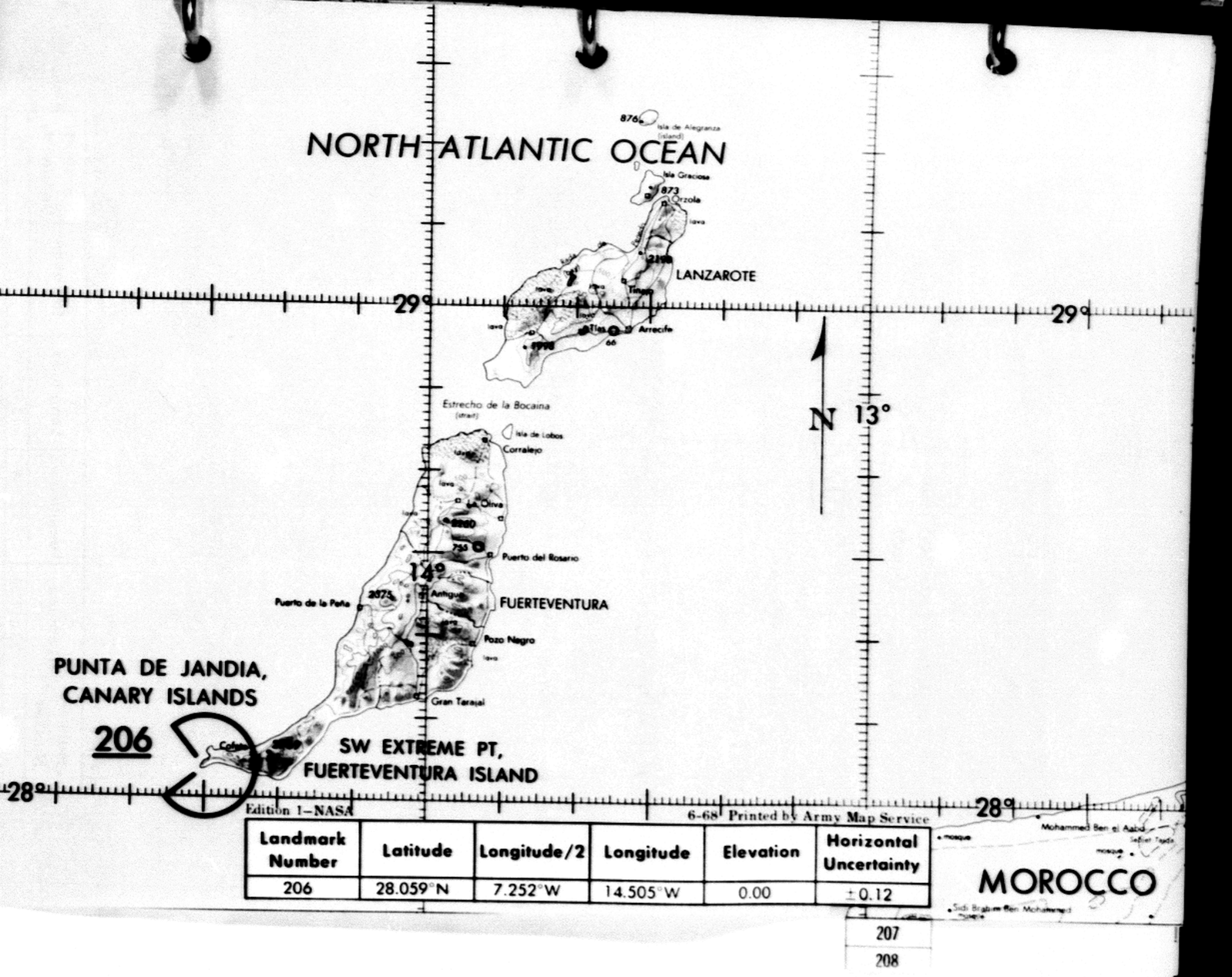
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
201	30.633°N	4.946°W	9.891°W	0.00	±0.14



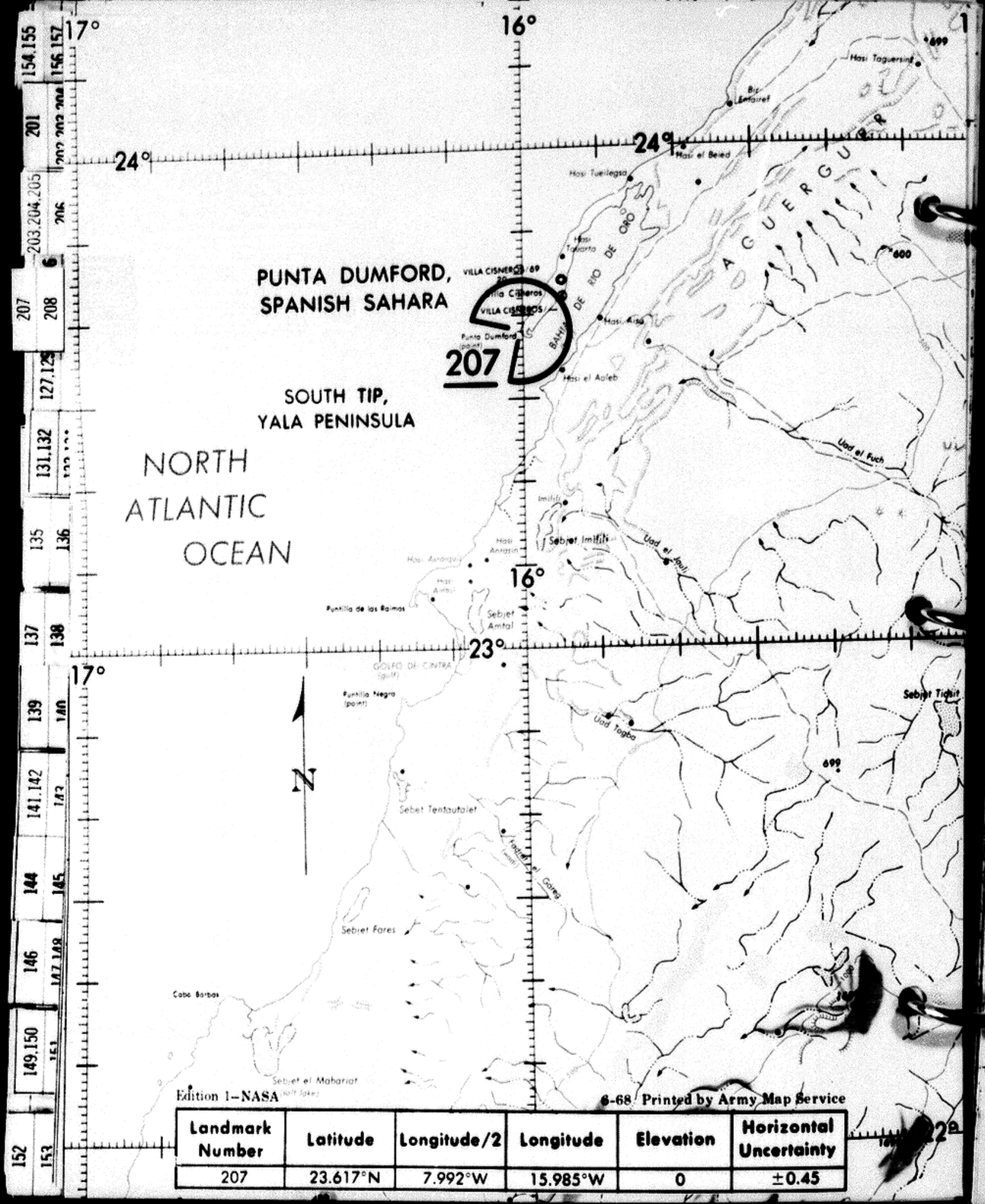
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
202	28.447°N	8.917°W	17.834°W	0.00	±0.23
203	28.334°N	8.457°W	16.914°W	0.00	±0.12
204	28.550°N	8.063°W	16.126°W	0.00	±0.12



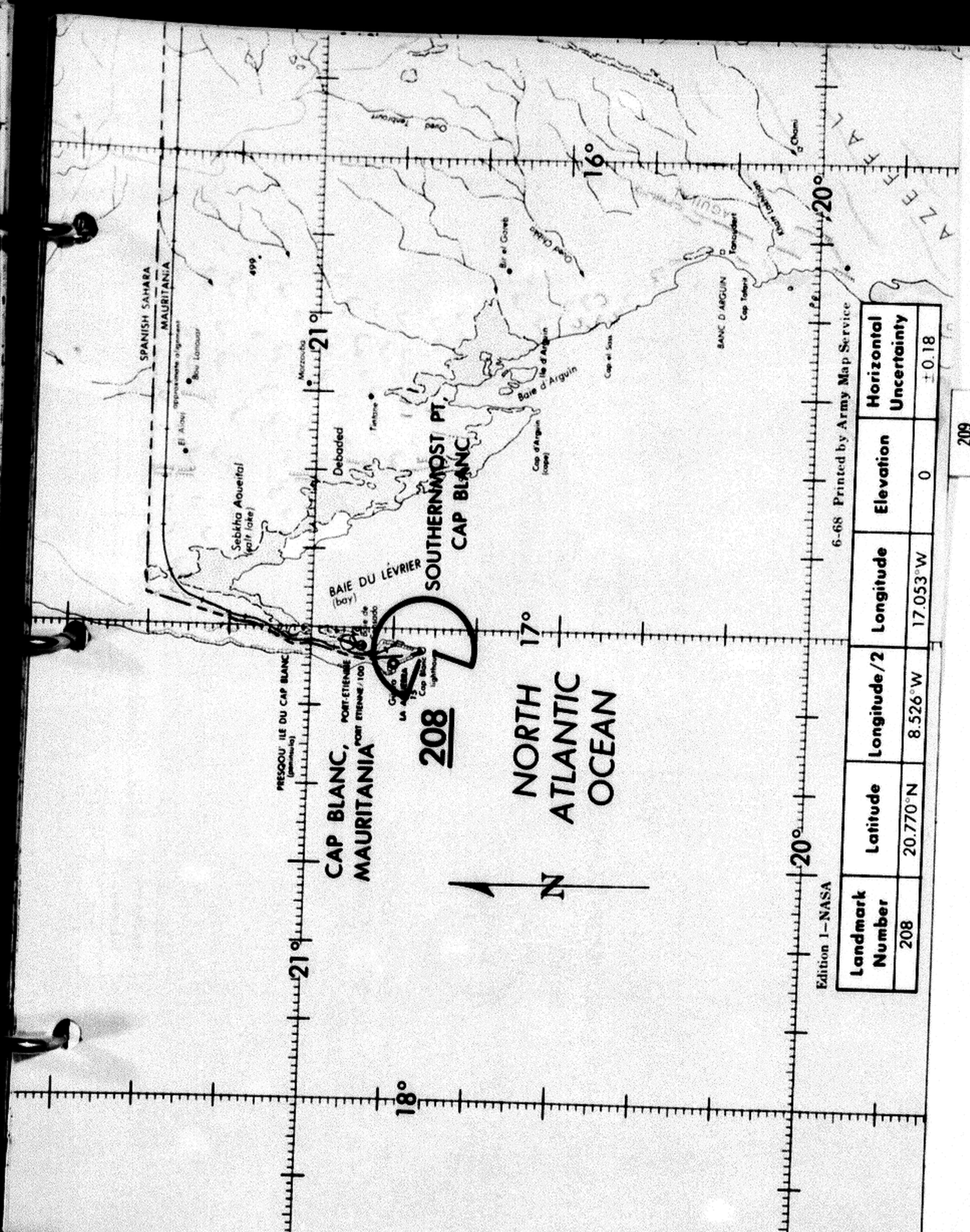
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
203	28.334°N	8.457°W	16.914°W	0.00	±0.12
204	28.550°N	8.063°W	16.126°W	0.00	±0.12
205	28.127°N	7.708°W	15.416°W	0.00	±0.12



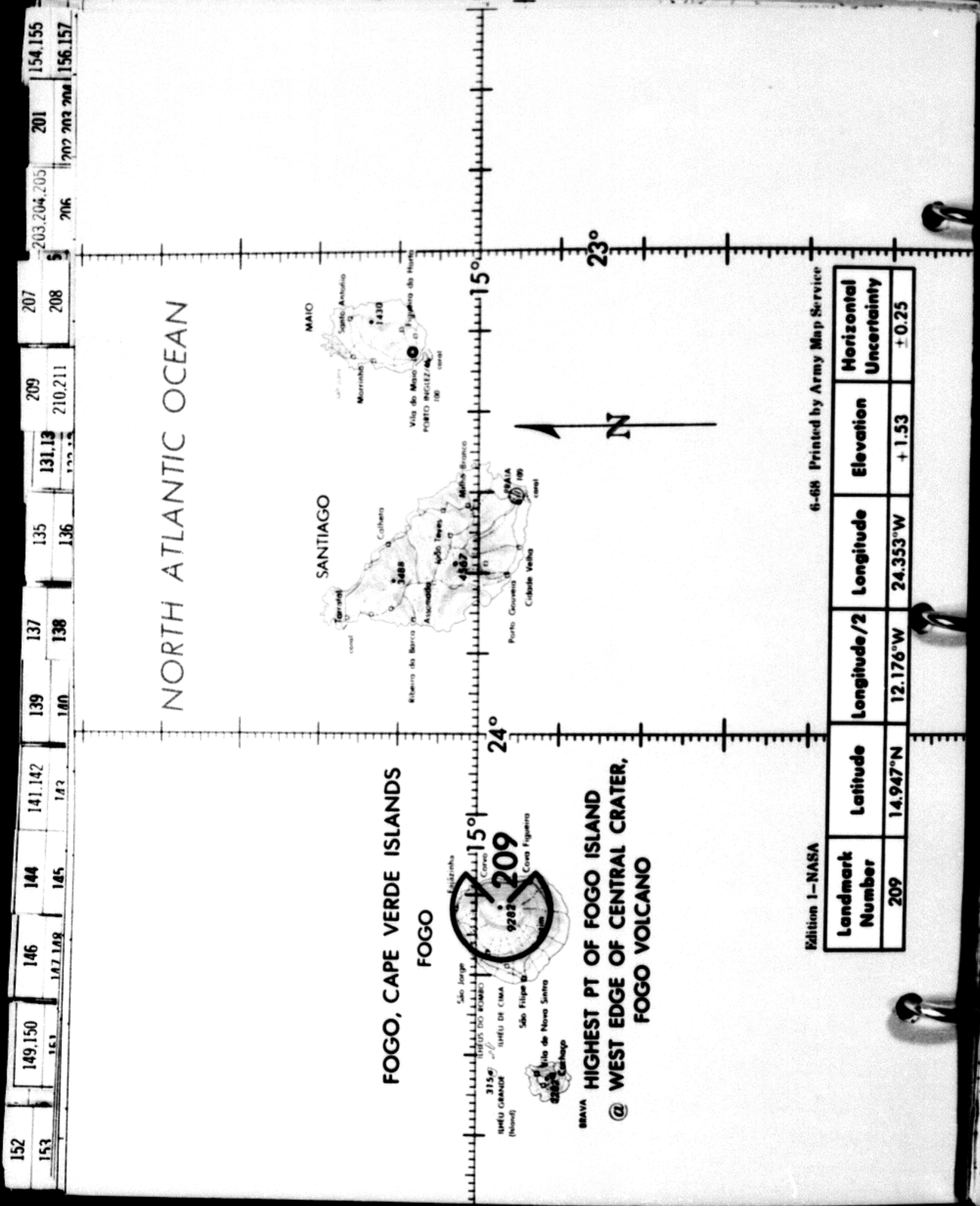
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
206	28.059°N	7.252°W	14.505°W	0.00	±0.12



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



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



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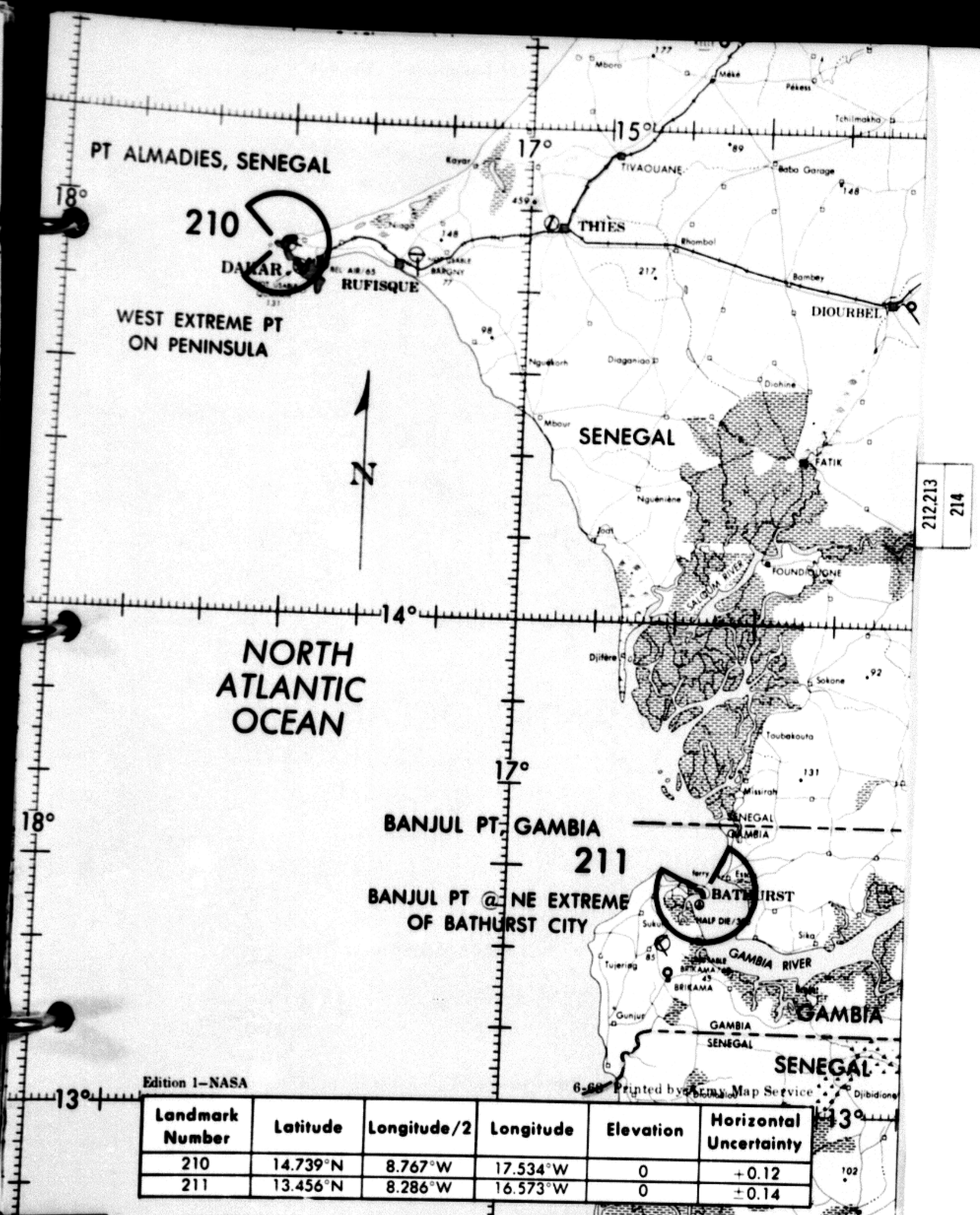
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
209	14.947°N	12.176°W	24.353°W	+1.53	±0.25



Edition 1–NASA

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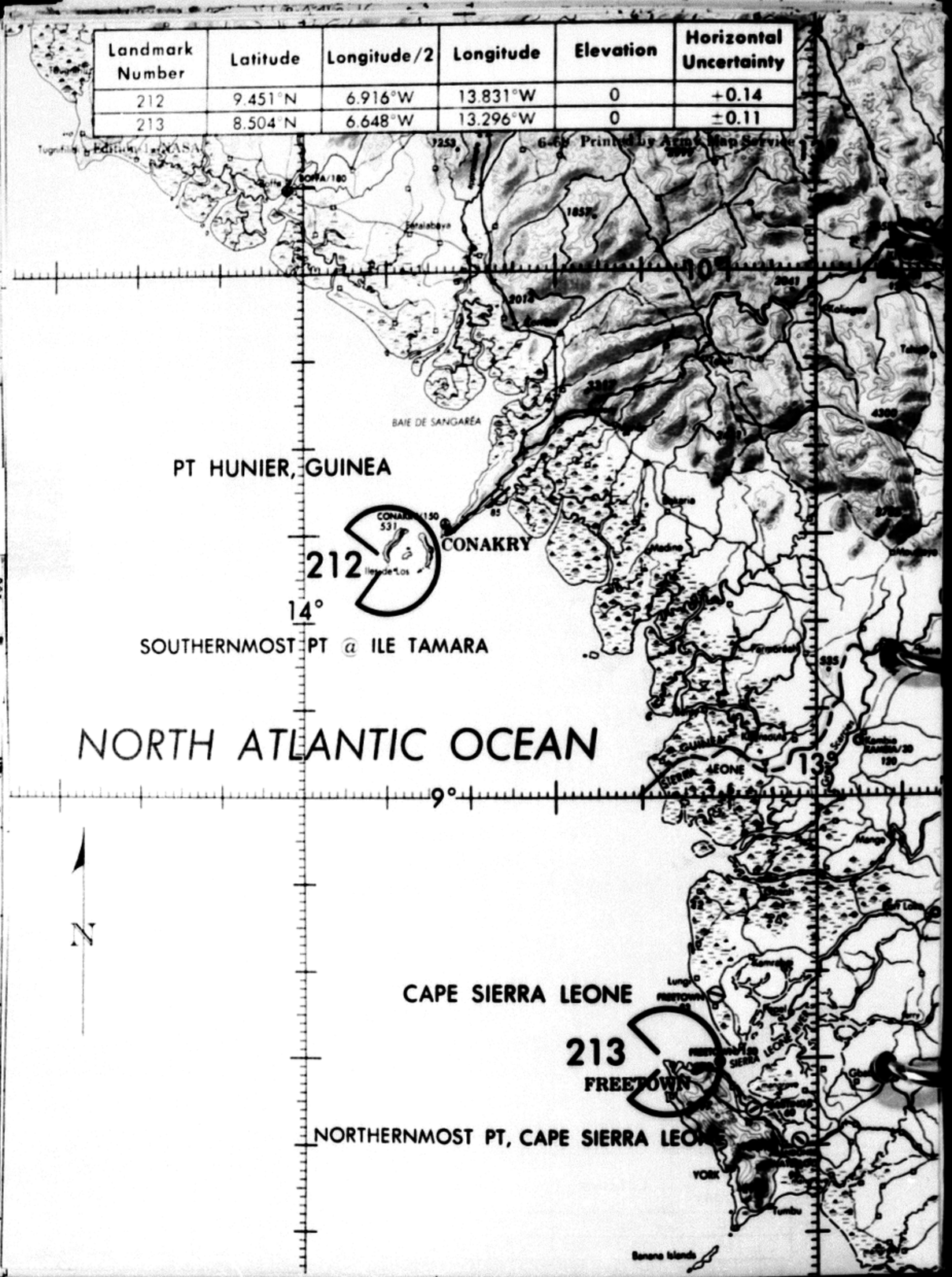
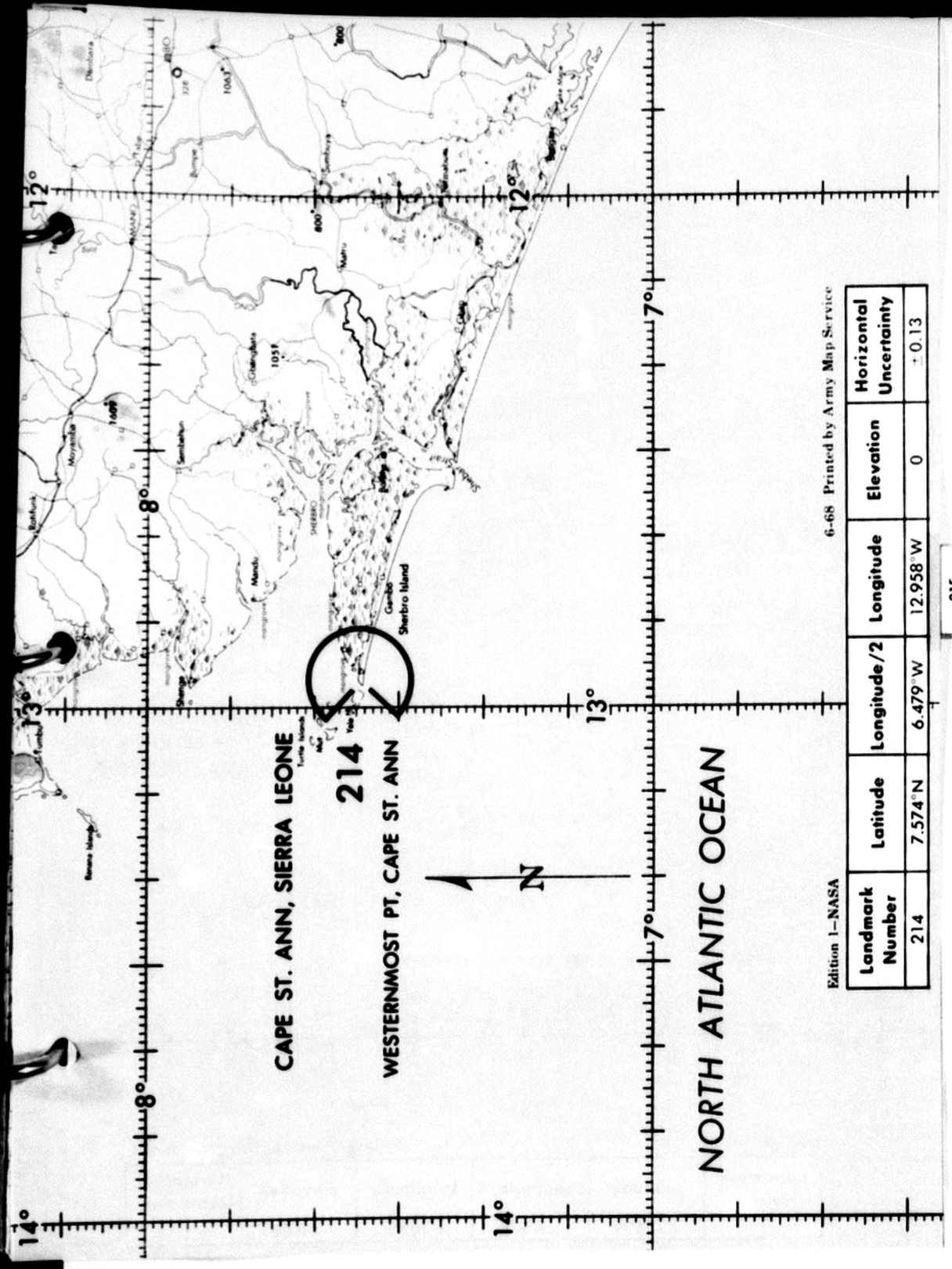
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
210	14.739°N	8.767°W	17.534°W	0	±0.12
211	13.456°N	8.286°W	16.573°W	0	±0.14

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





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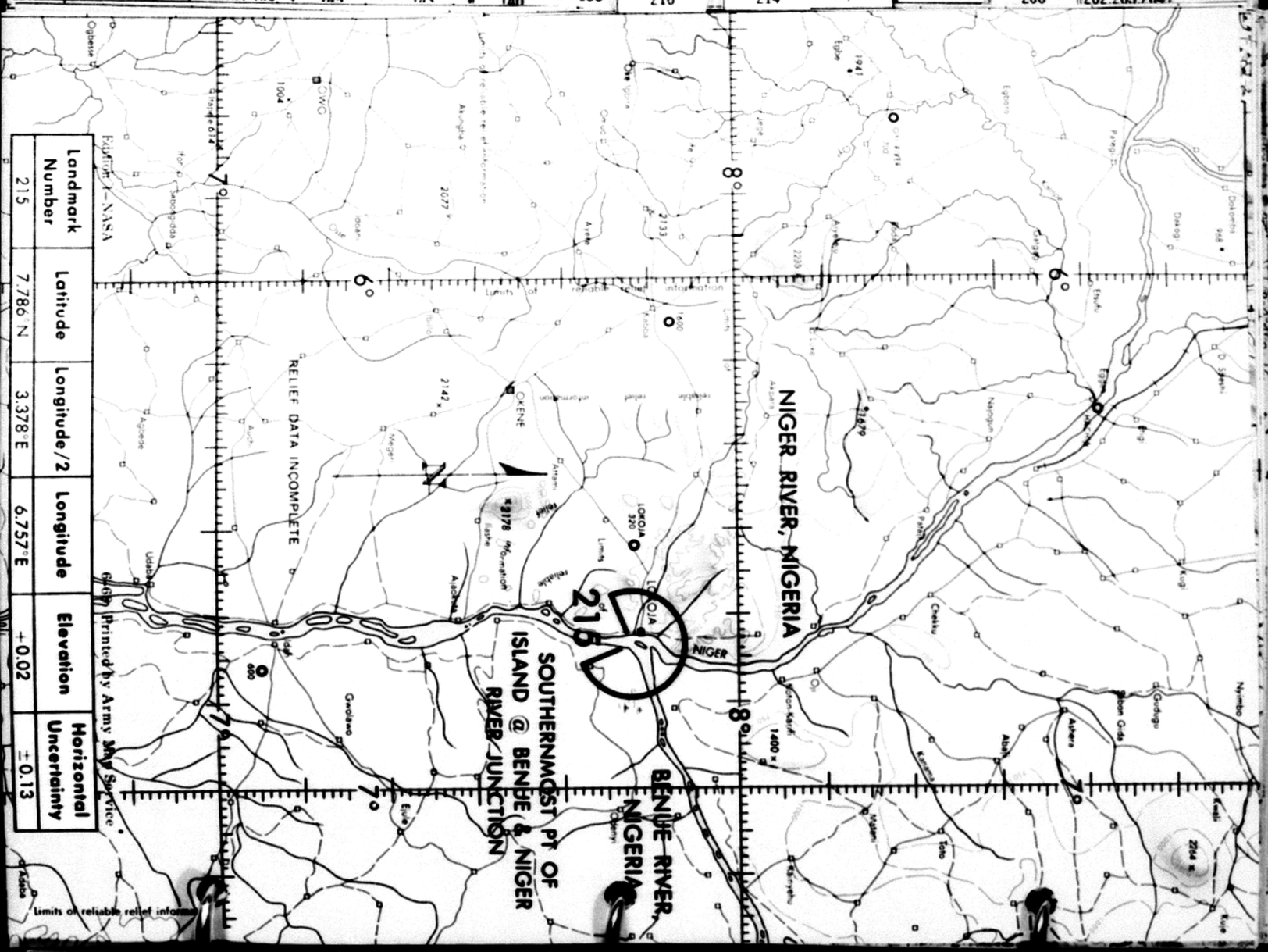
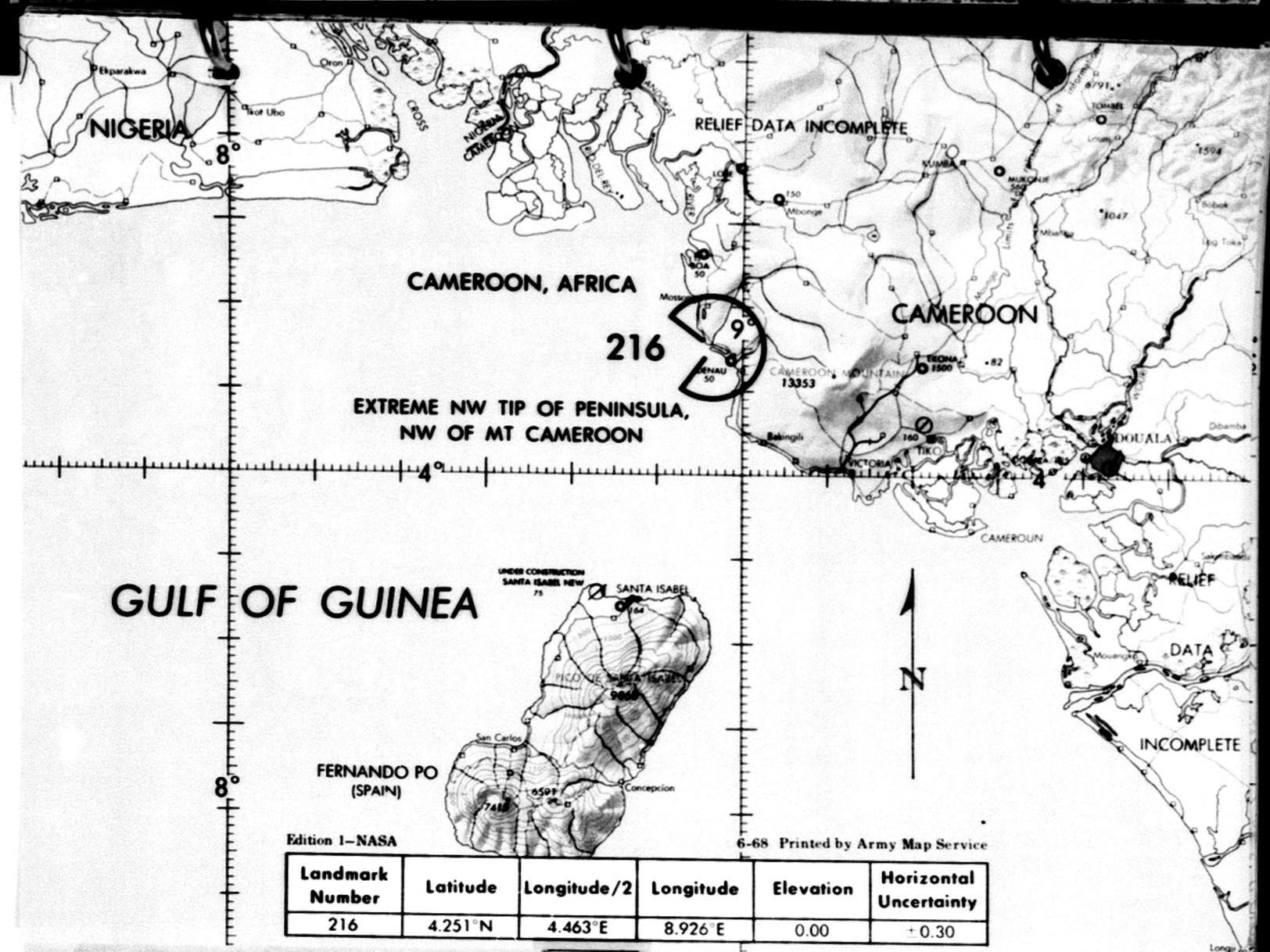
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
214	7.574°N	6.479°W	12.958°W	0	±0.13

Edition 1–NASA

154.155 156.157 201 202.203.204 203.204.205 206 207 208 209 210.211 212.213 214 135 136 137 138 139 140 141.142 144 145 146 147.149 149.150 152 153 215 216



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

6-68 Printed by Army Map Service

PT PONGARA, GABON

217

NORTH TIP OF SHORELINE ON ESTUARY

GULF OF GUINEA

PT ODDEN, GABON

218

NORTH TIP OF CAPE LOPEZ PENINSULA

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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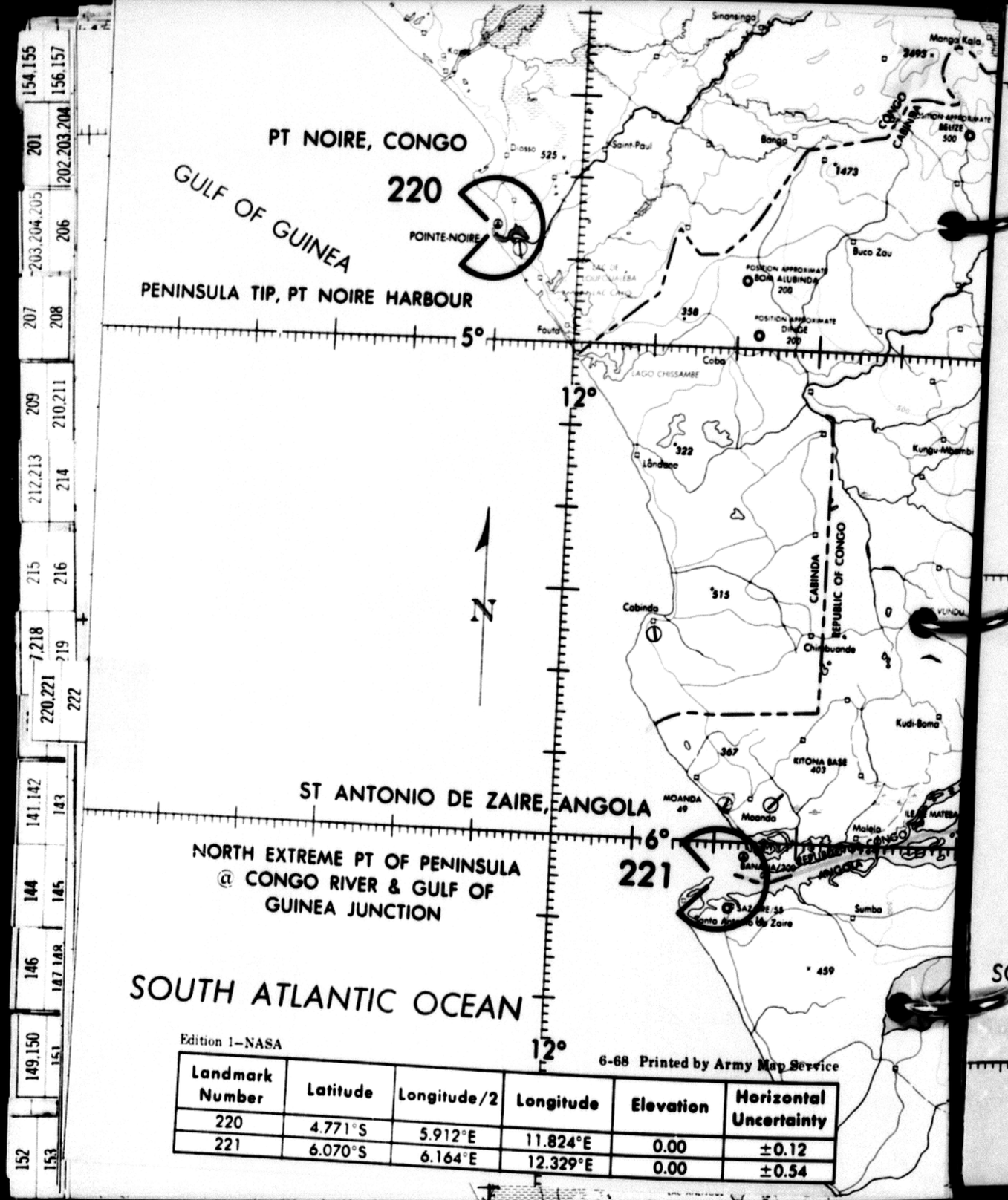
6-68 Printed by Army Map Service

MAYOUMBA, GABON

219

EXTREME NORTH TIP OF SAND BAR BEYOND MAYOUMBA CITY

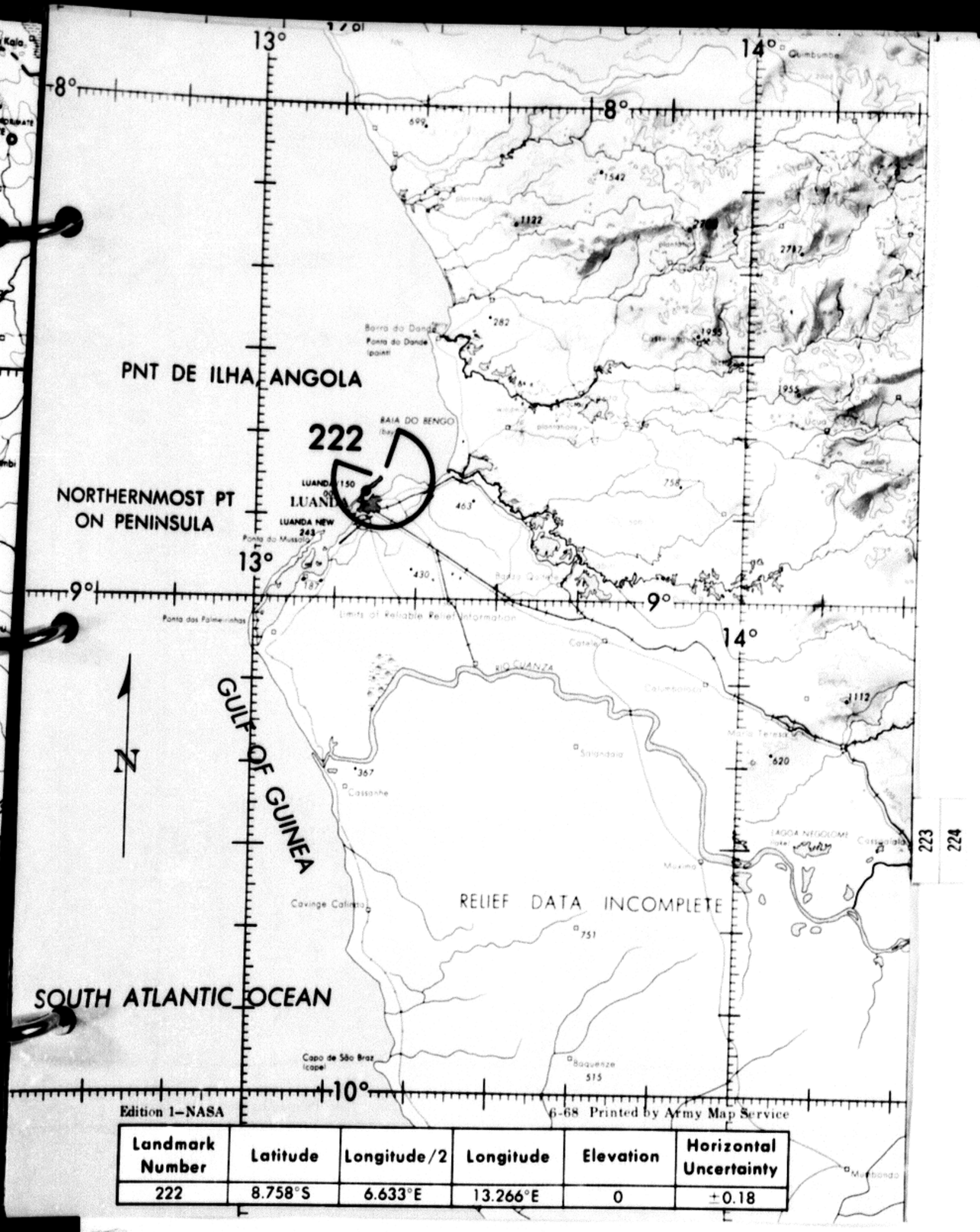
GULF OF GUINEA



Edition 1–NASA

6-68 Printed by Army Map Service

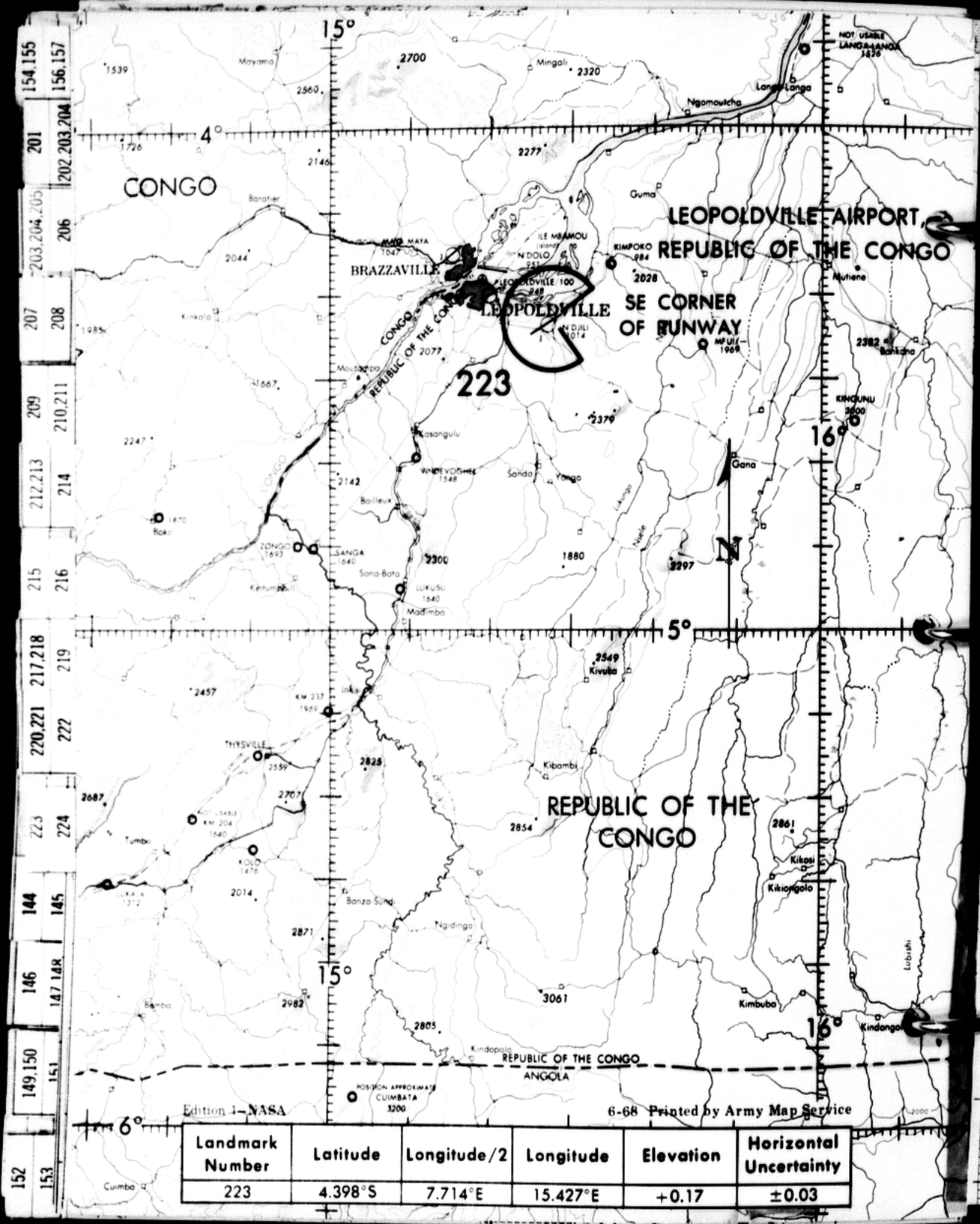
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
220	4.771°S	5.912°E	11.824°E	0.00	±0.12
221	6.070°S	6.164°E	12.329°E	0.00	±0.54



Edition 1–NASA

6-68 Printed by Army Map Service

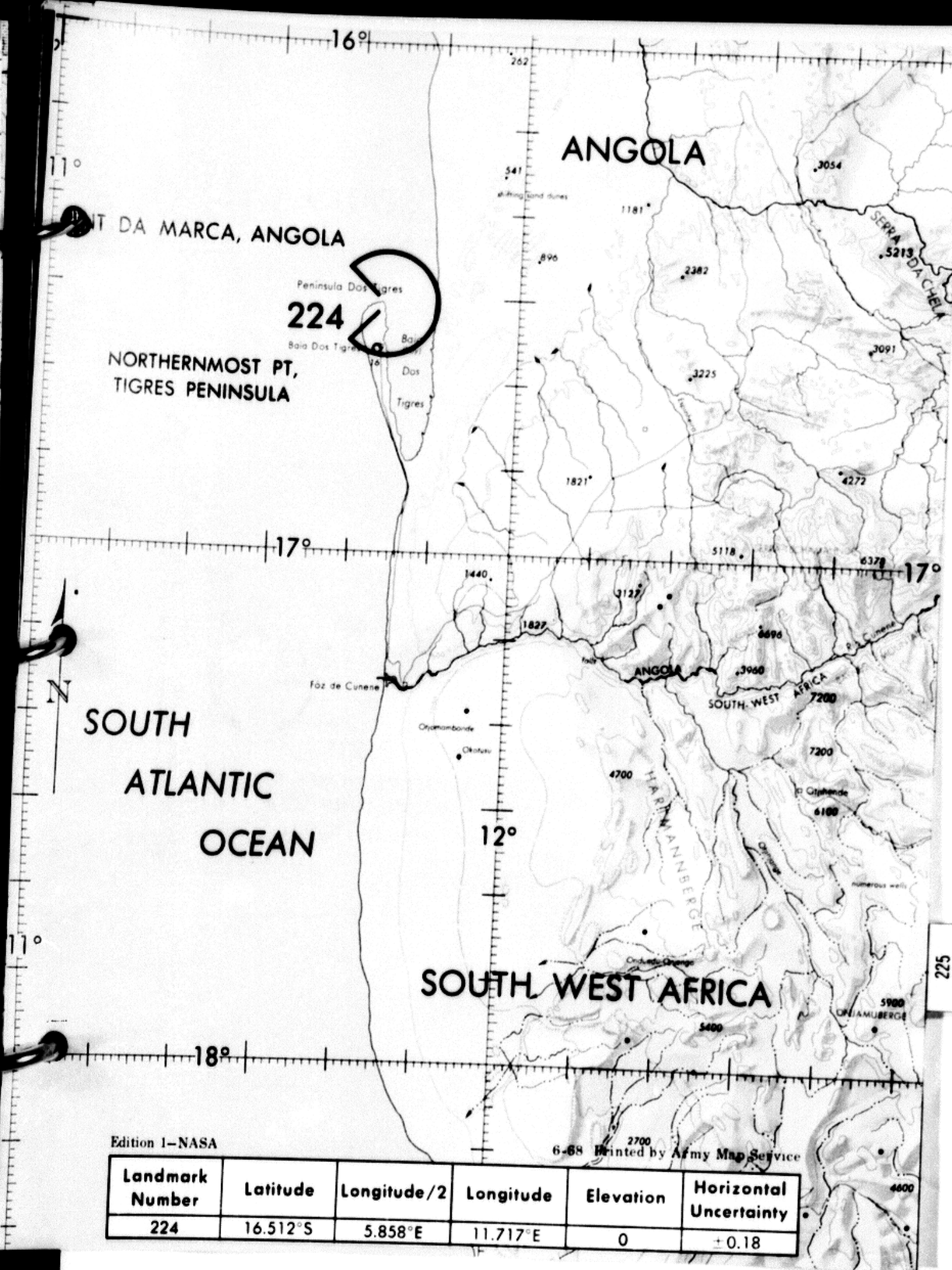
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
222	8.758°S	6.633°E	13.266°E	0	±0.18



Edition 1–NASA

6-68 Printed by Army Map Service

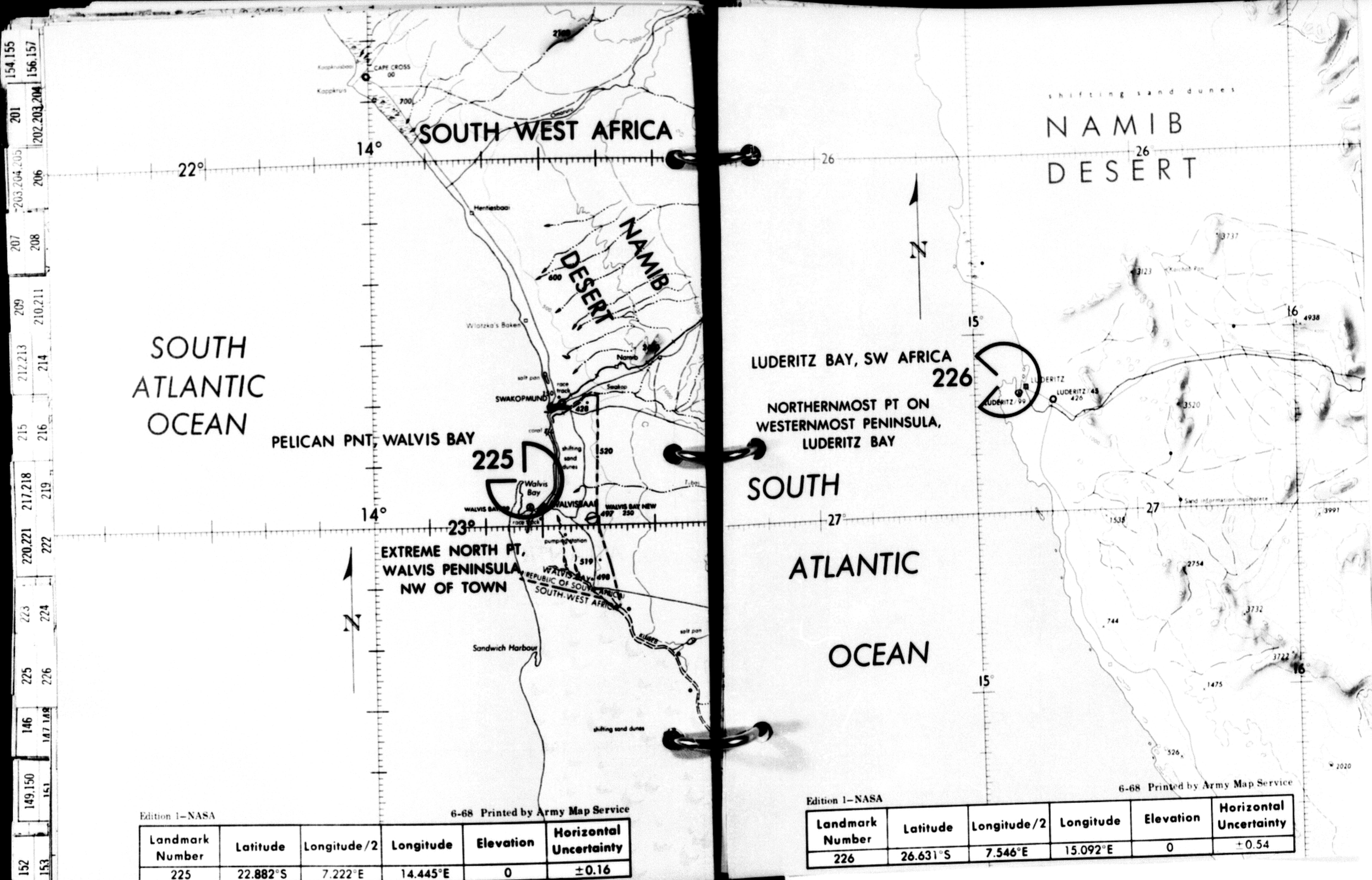
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
223	4.398°S	7.714°E	15.427°E	+0.17	±0.03



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

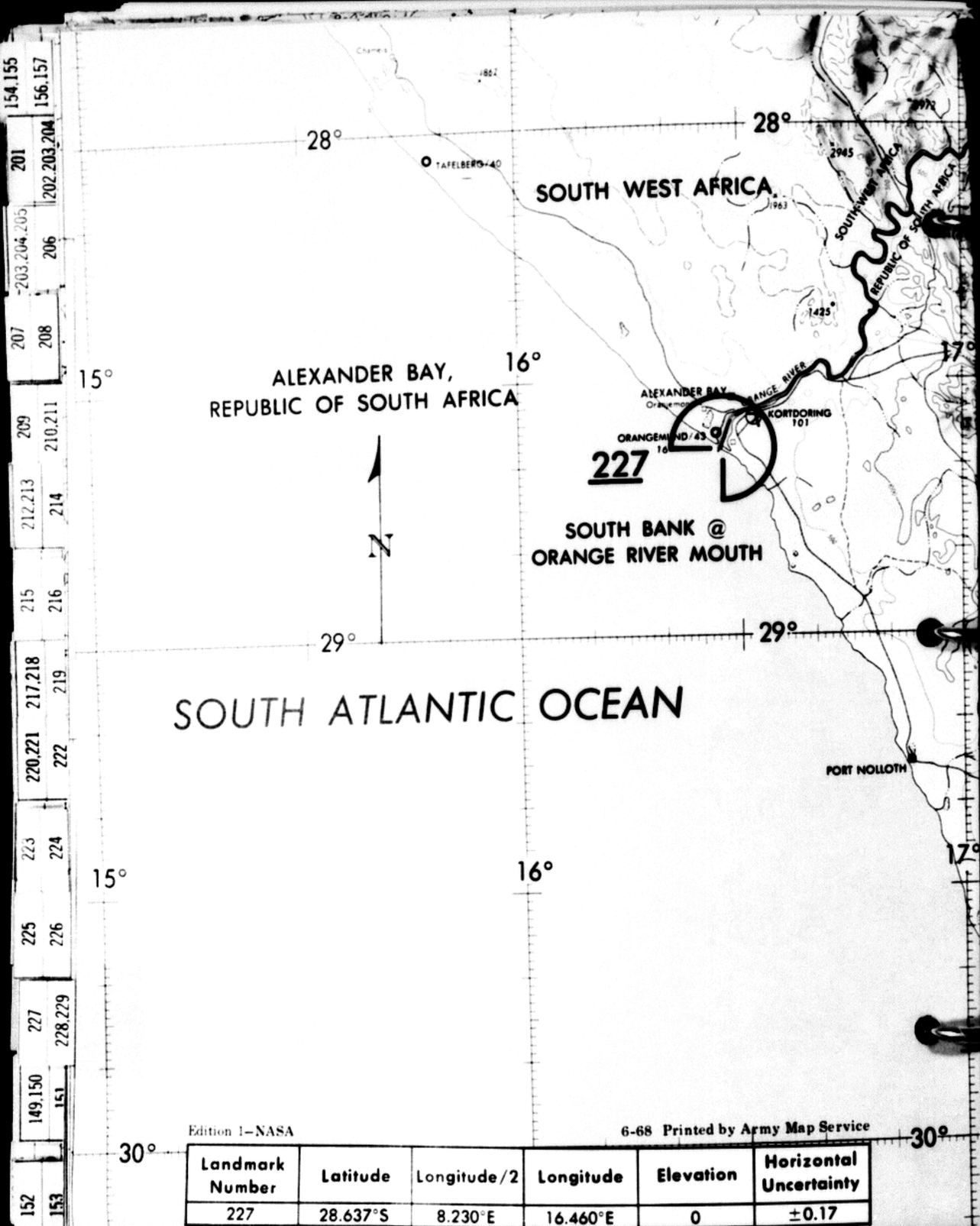
6-68 Printed by Army Map Service

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

6-68 Printed by Army Map Service

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

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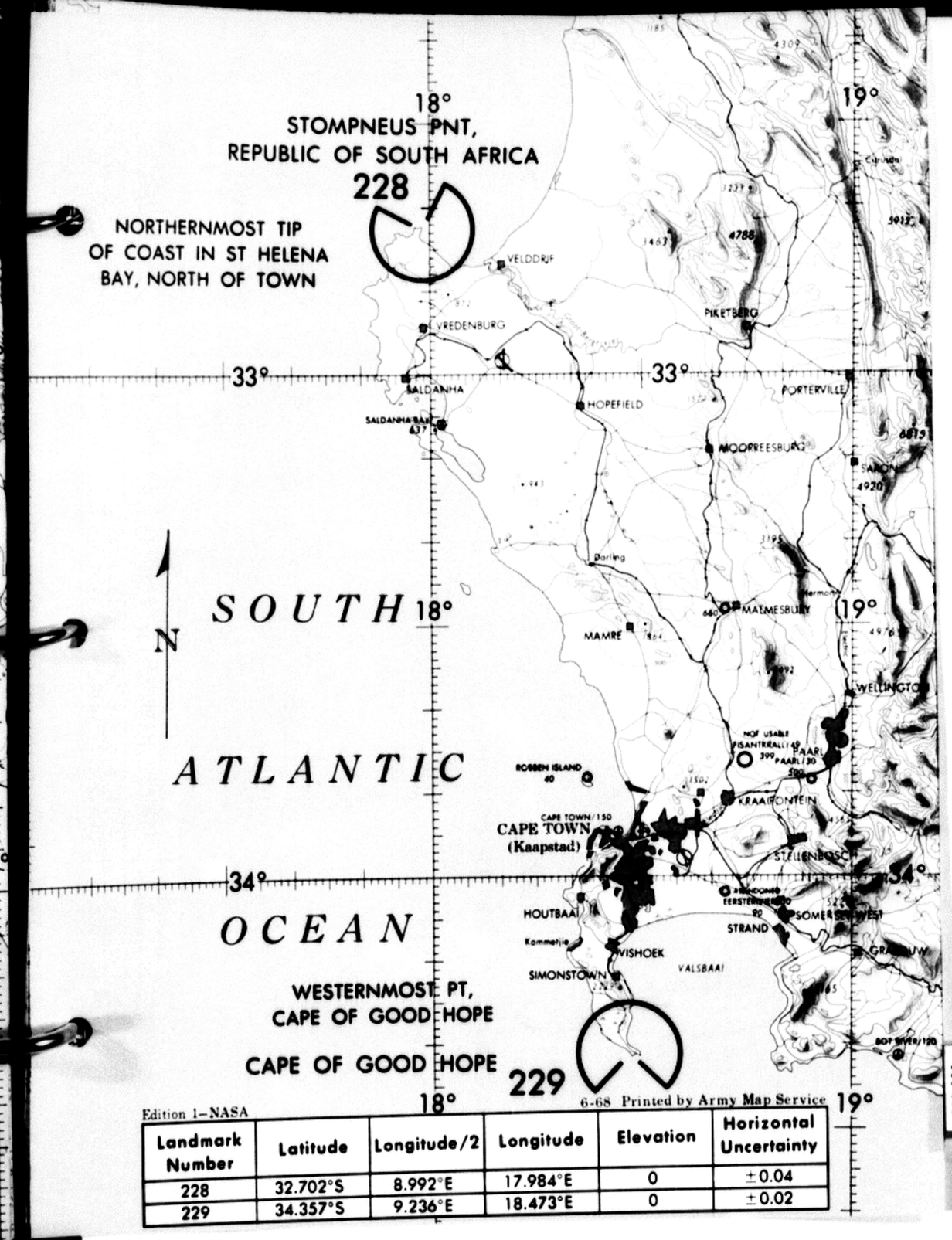
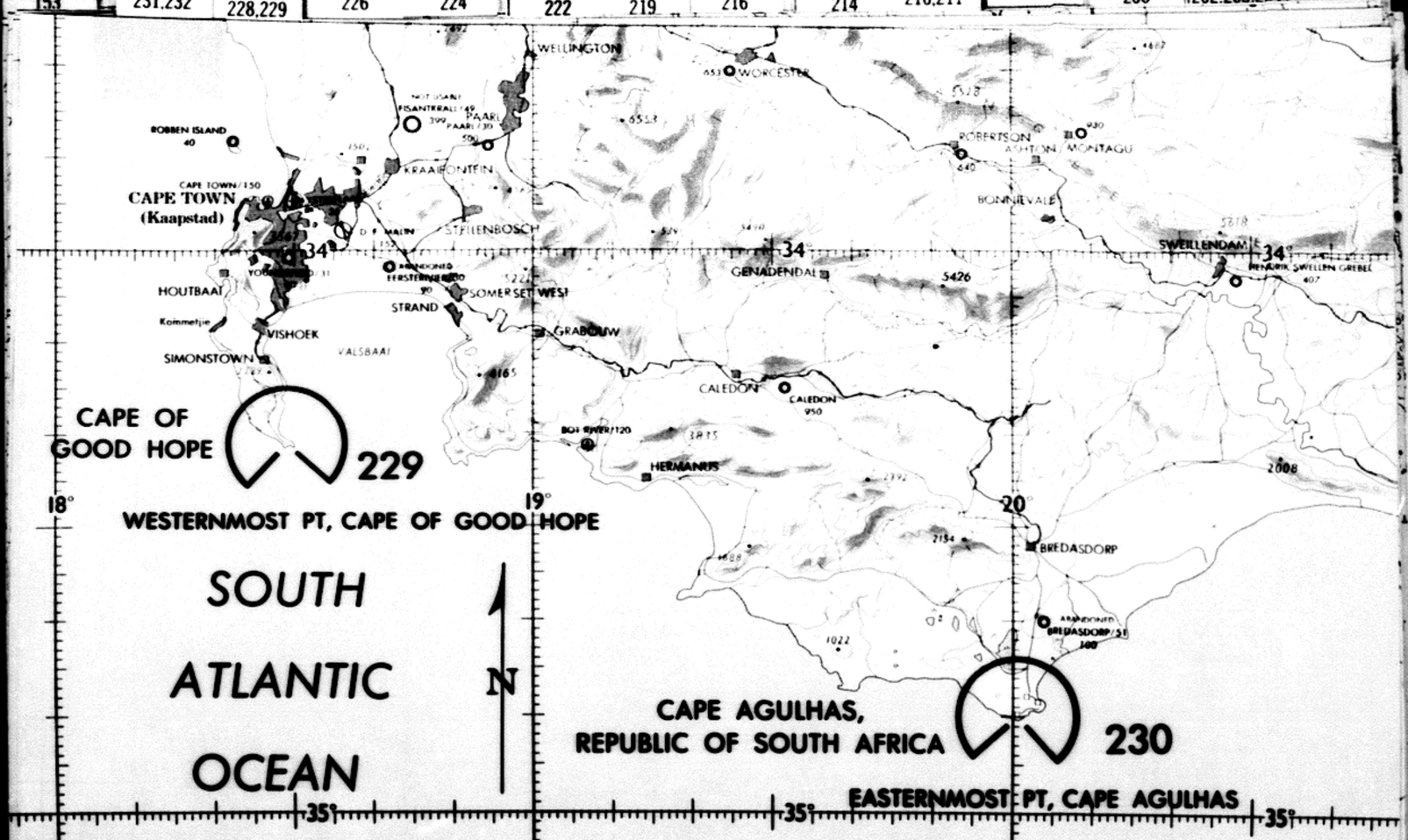
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
227	28.637°S	8.230°E	16.460°E	0	±0.17



Edition 1–NASA

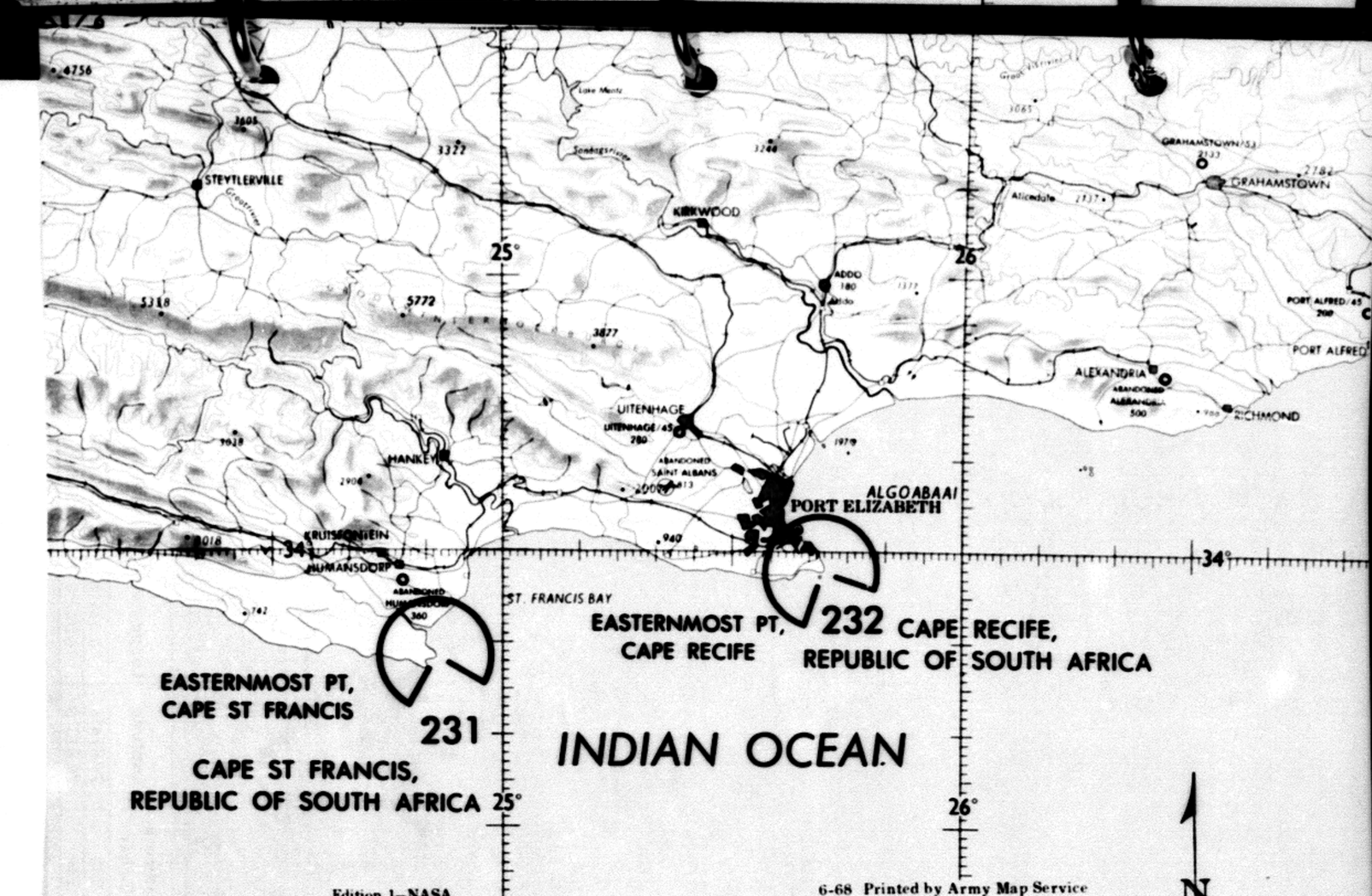
6-68 Printed by Army Map Service

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

WESTERNMOST PT ON SOUTHERN TIP OF PENINSULA, @ MOUTH OF RICHARDS BAY

234

RICHARDS BAY, REPUBLIC OF S AFRICA

INDIAN OCEAN

CAVE ROCK, REPUBLIC OF S AFRICA

233

EASTERNMOST PT ON NORTHERN TIP OF PENINSULA @ CITY OF DURBAN

Edition 1-NASA

6-68 Printed by Army Map Service

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

MOZAMBIQUE

PNT MACANETA, MOZAMBIQUE

235

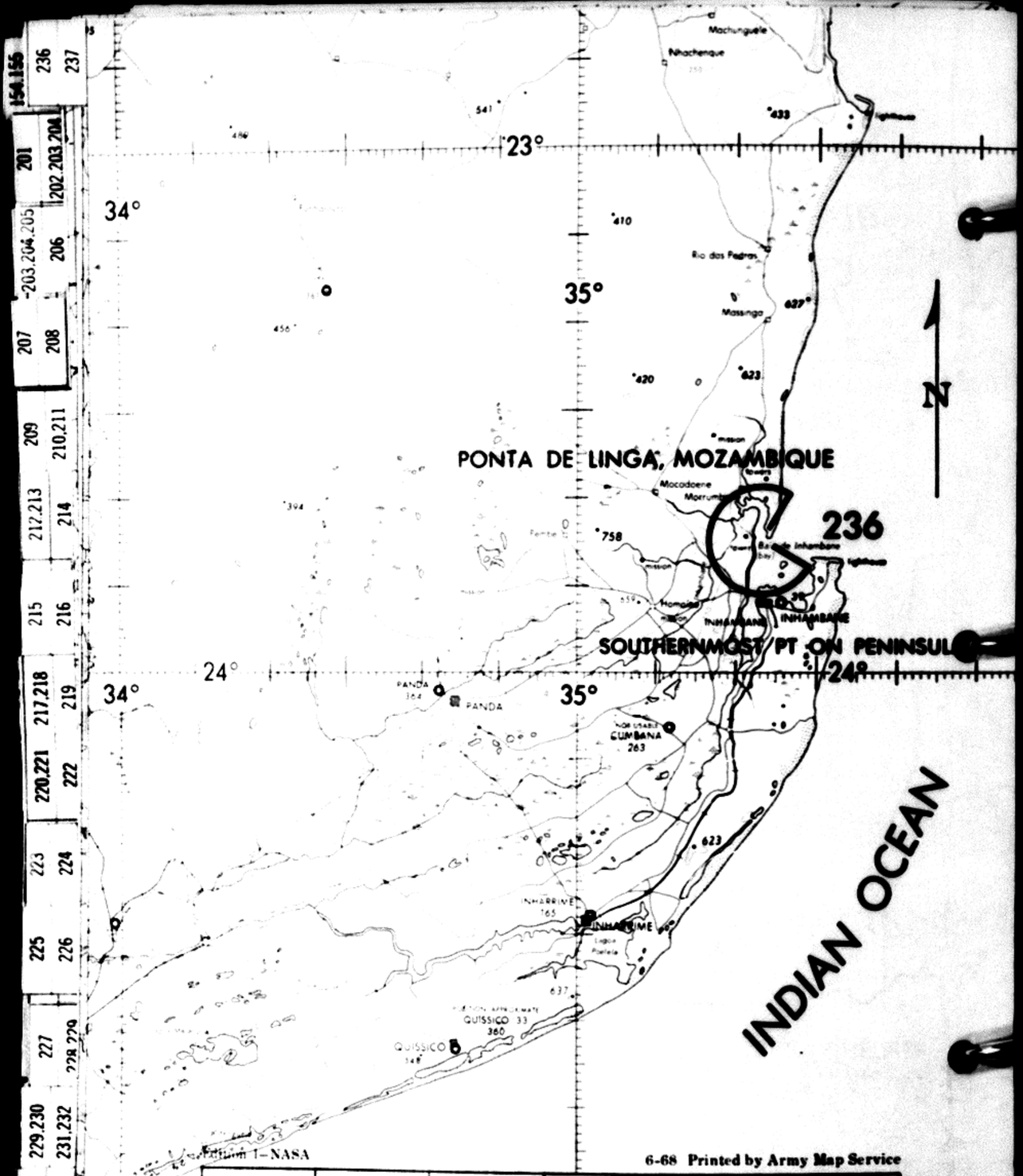
SOUTHERNMOST PT ON PENINSULA NE OF LOURENCO MARQUES

REPUBLIC OF SOUTH AFRICA

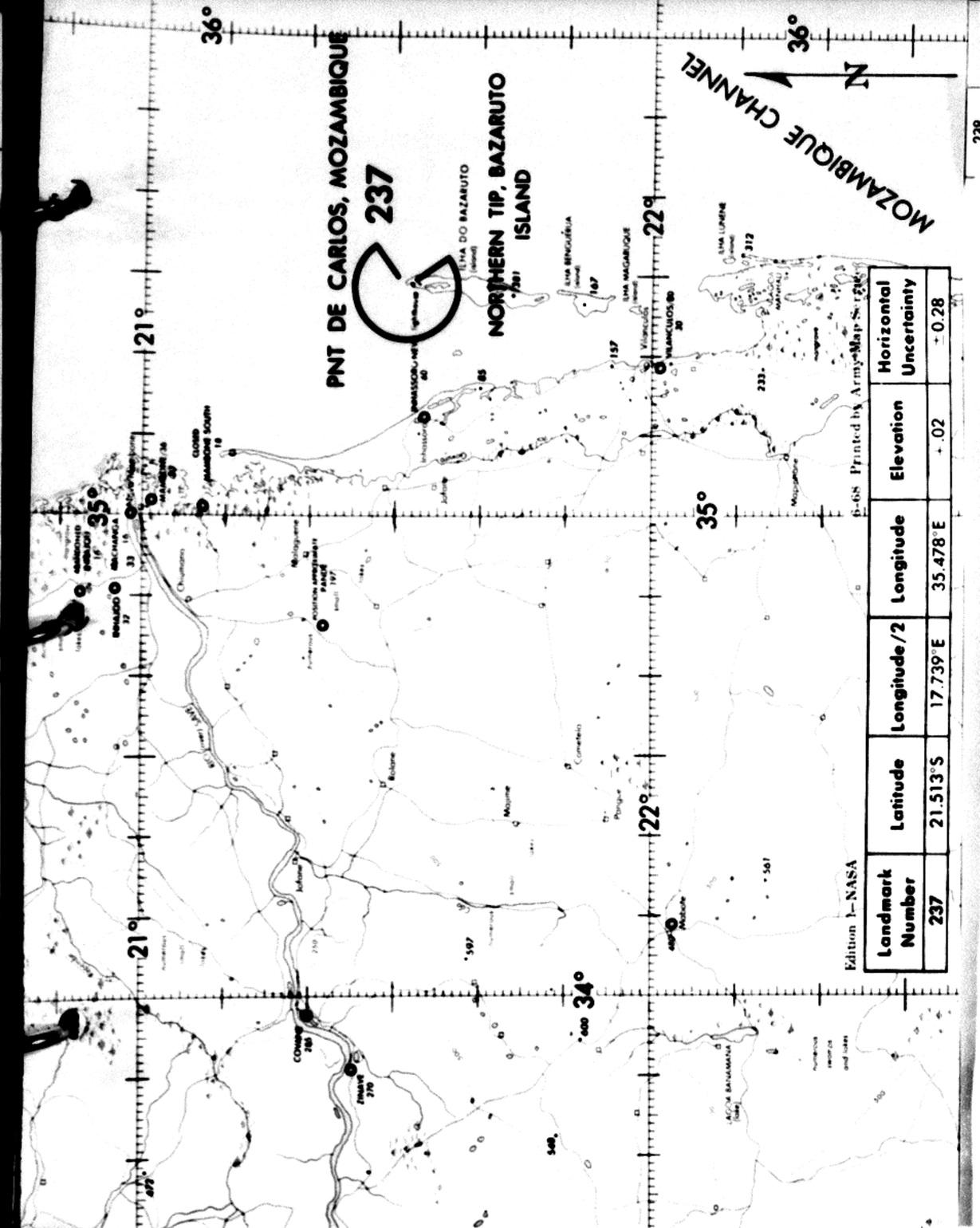
Edition 1-NASA

6-68 Printed by Army Map Service

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

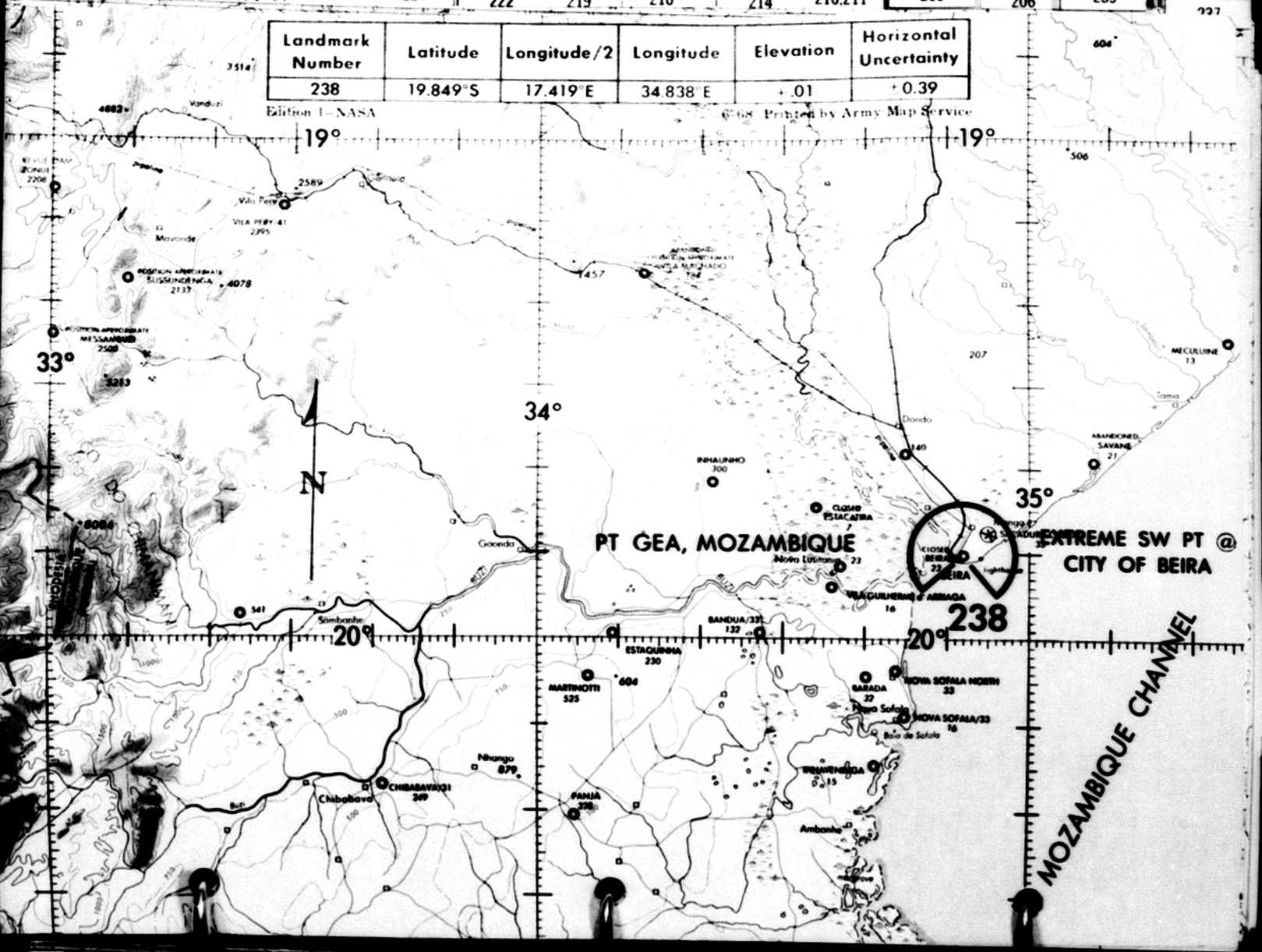


Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
236	23.738°S	17.701°E	35.402°E	+0.02	±0.28

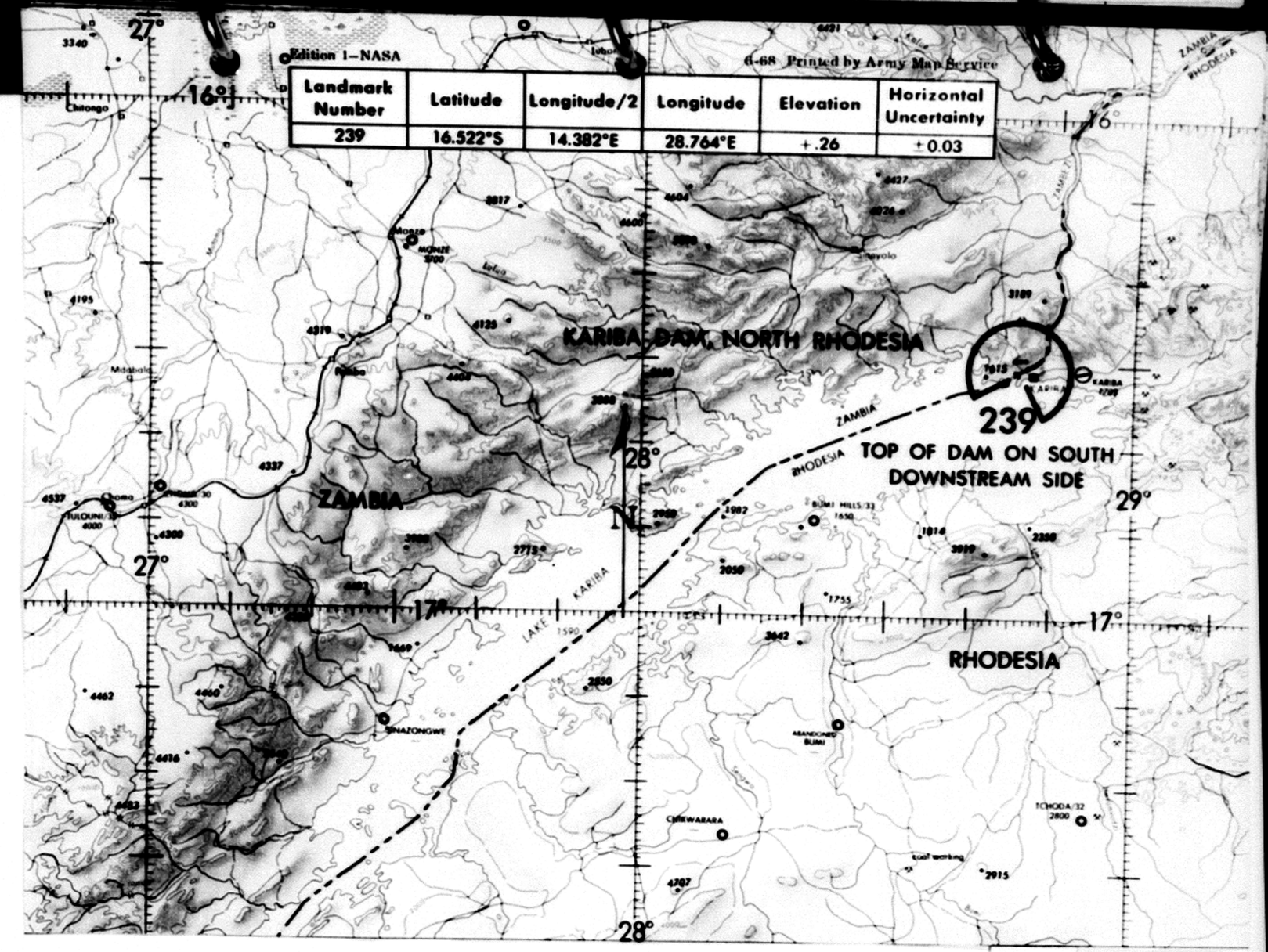


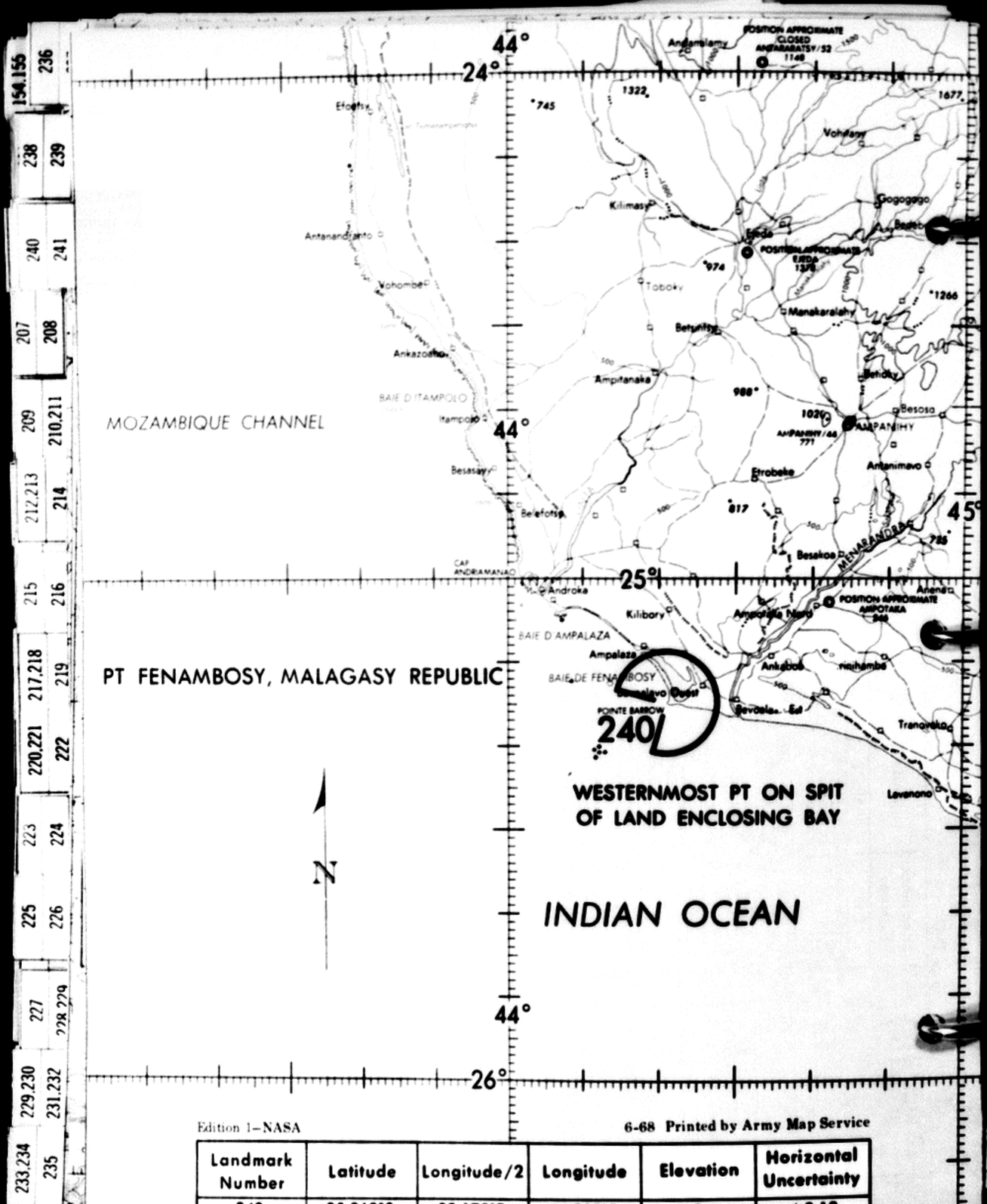
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
237	21.513°S	17.739°E	35.478°E	+.02	±0.28

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





Edition 1–NASA

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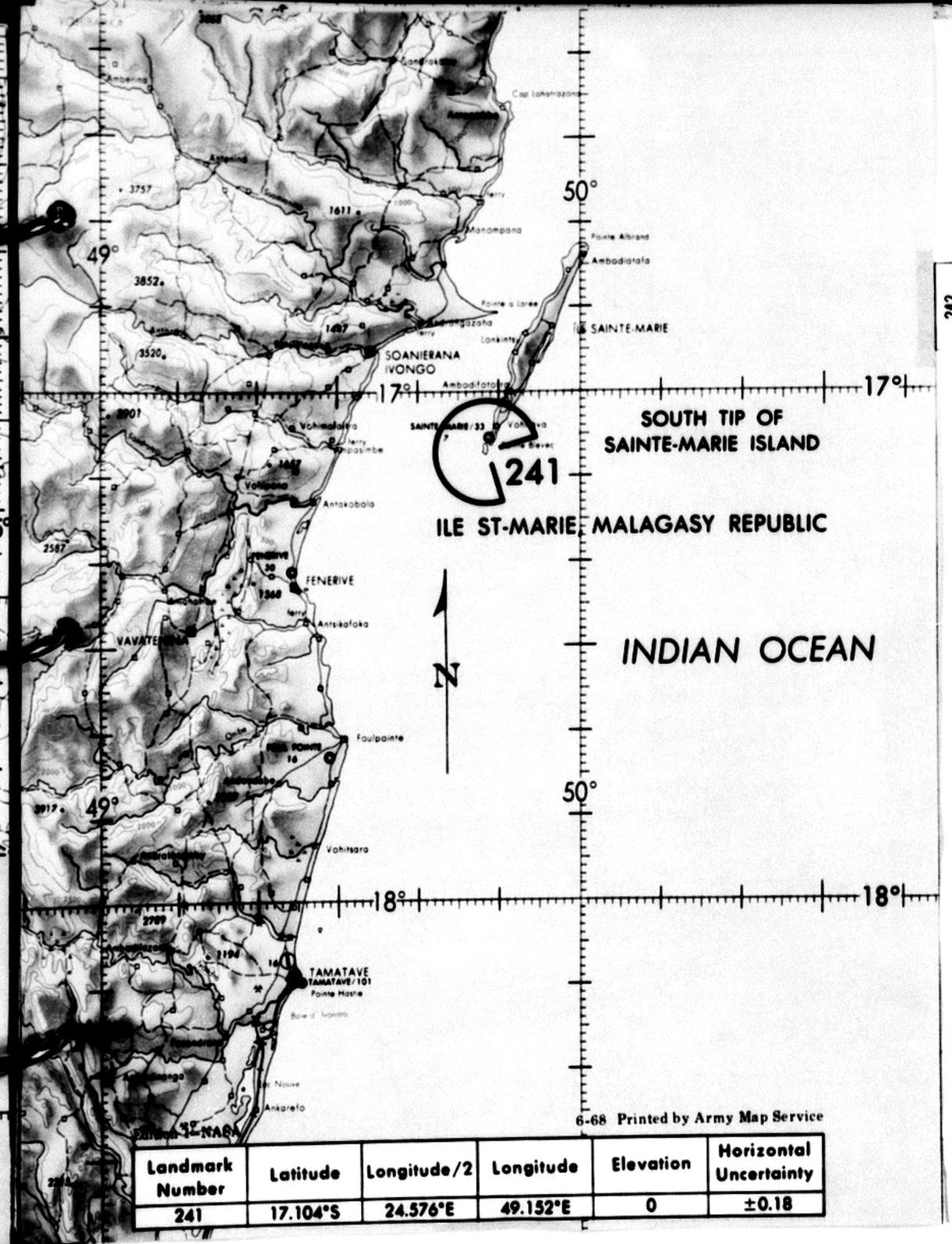
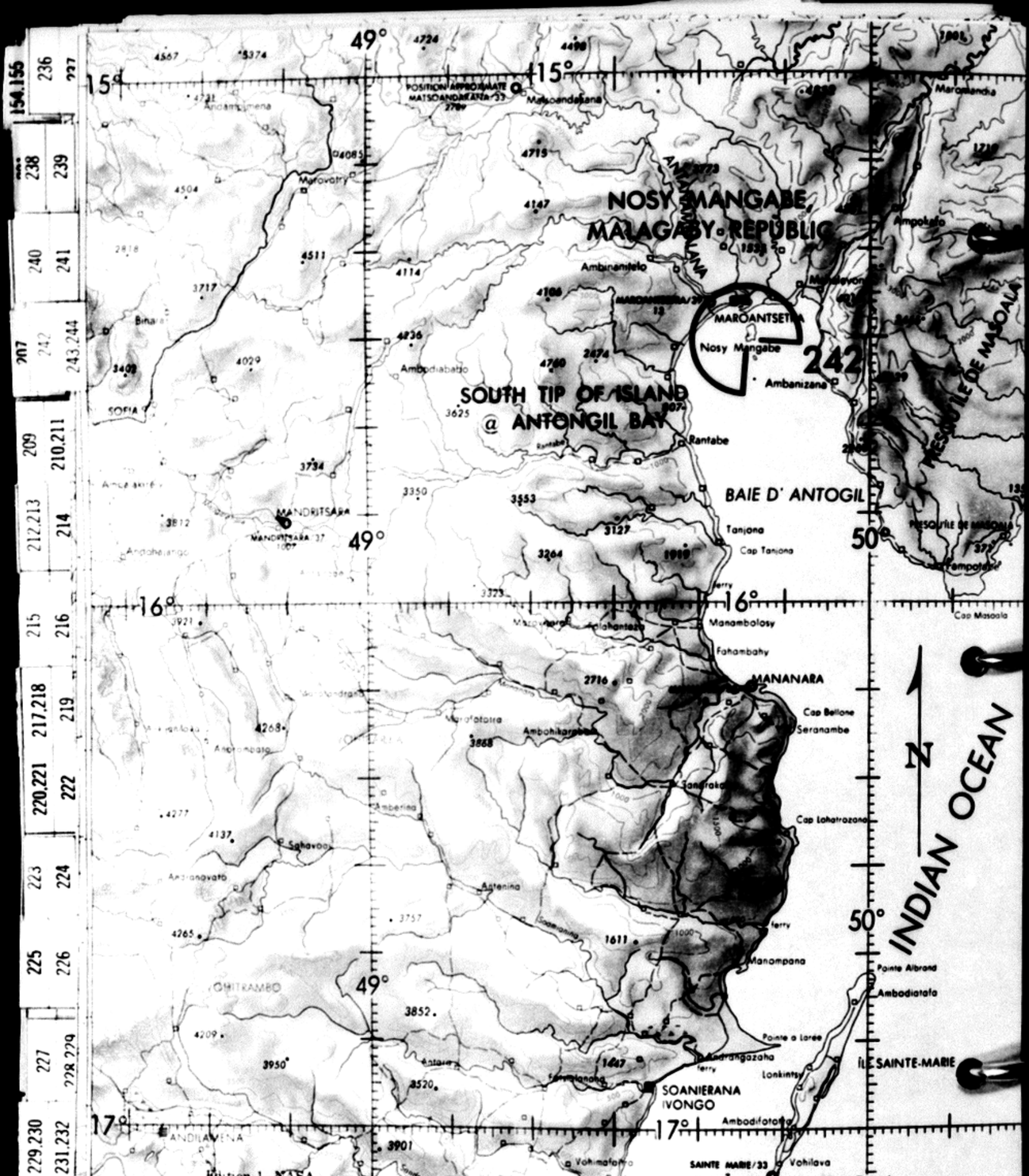
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
240	25.263°S	22.175°E	44.350°E	0	±0.18

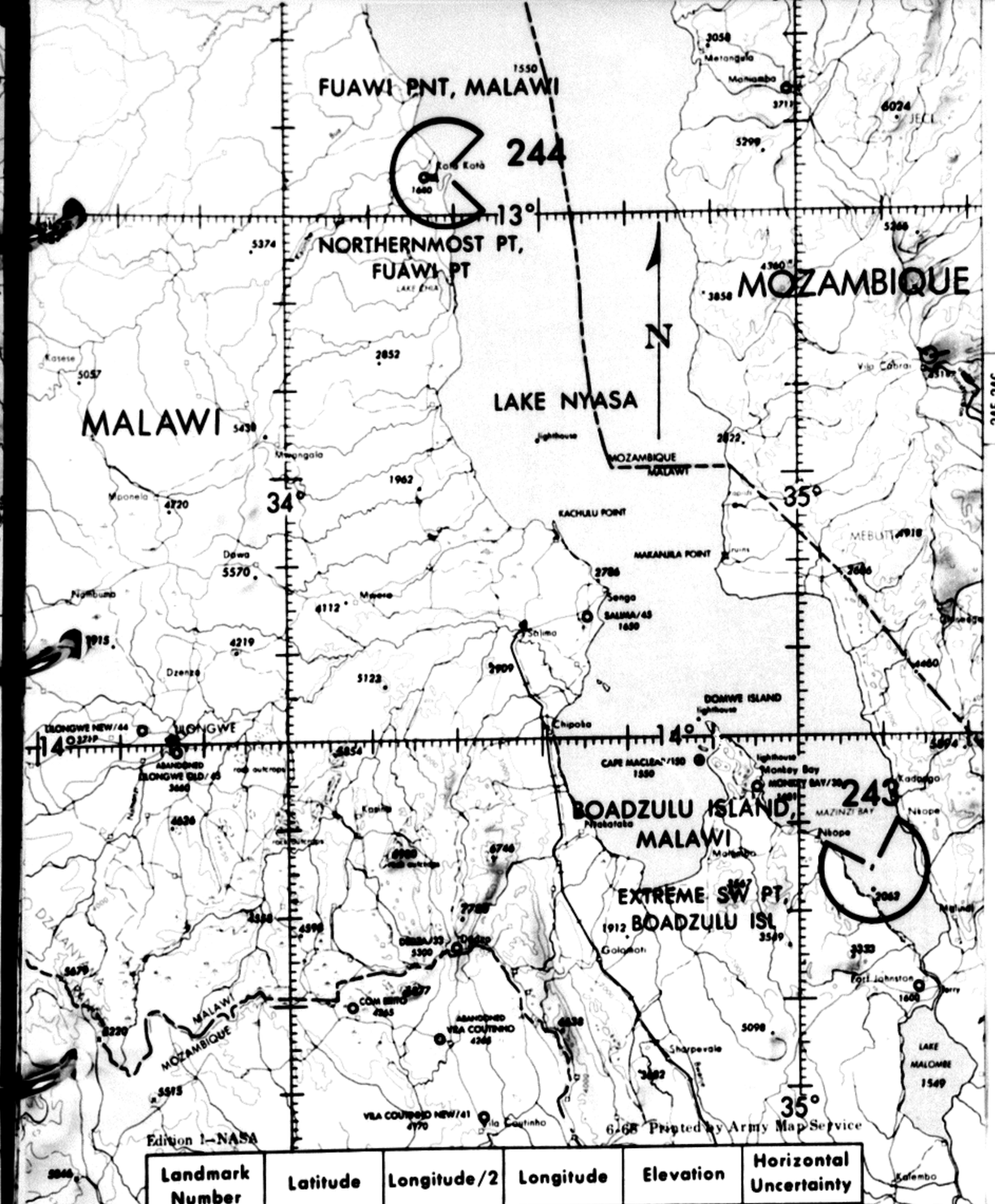


6-68 Printed by Army Map Service

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
241	17.104°S	24.576°E	49.152°E	0	±0.18



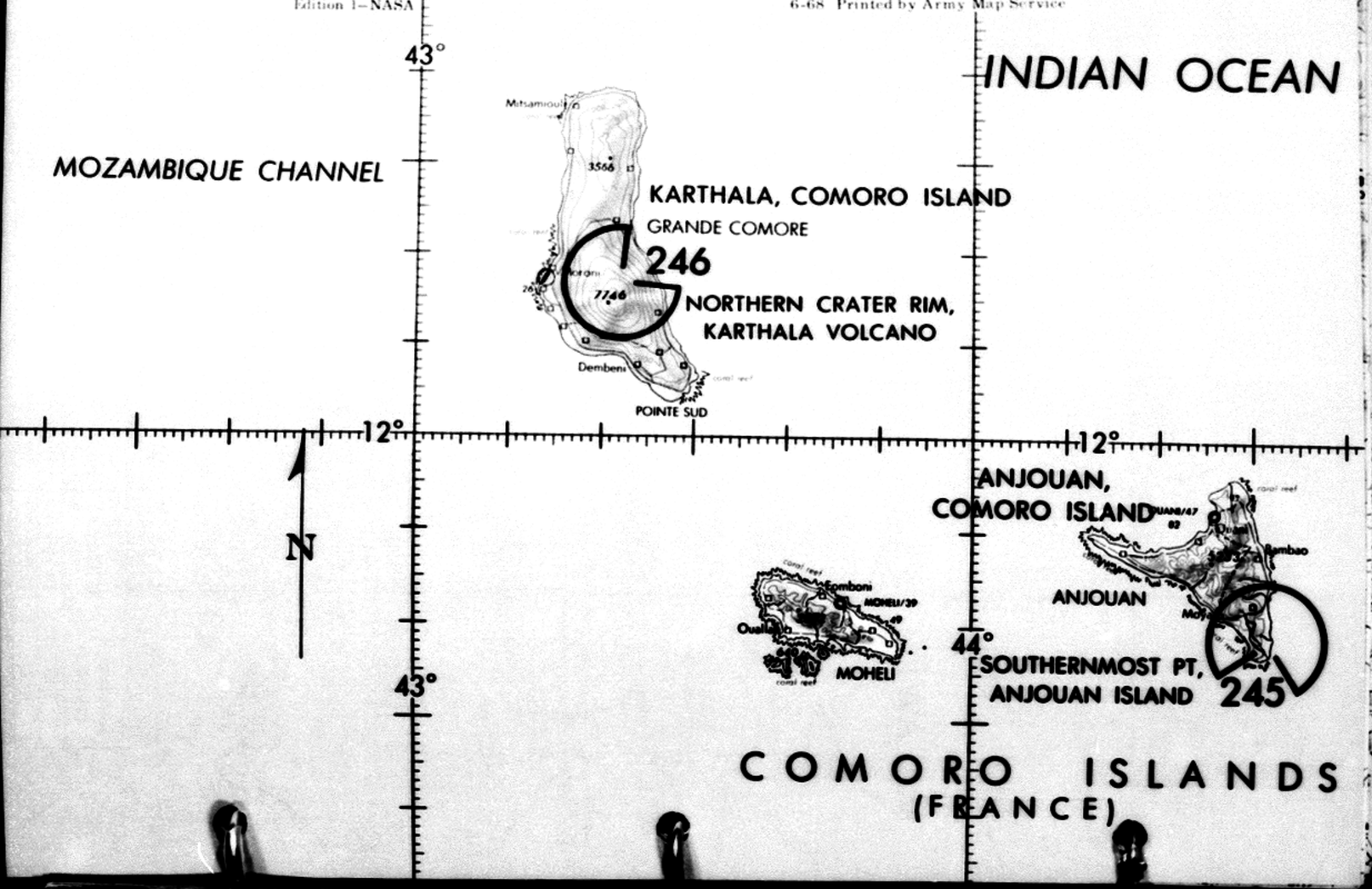
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
242	15.511°S	24.880°E	49.760°E	0.00	±0.18

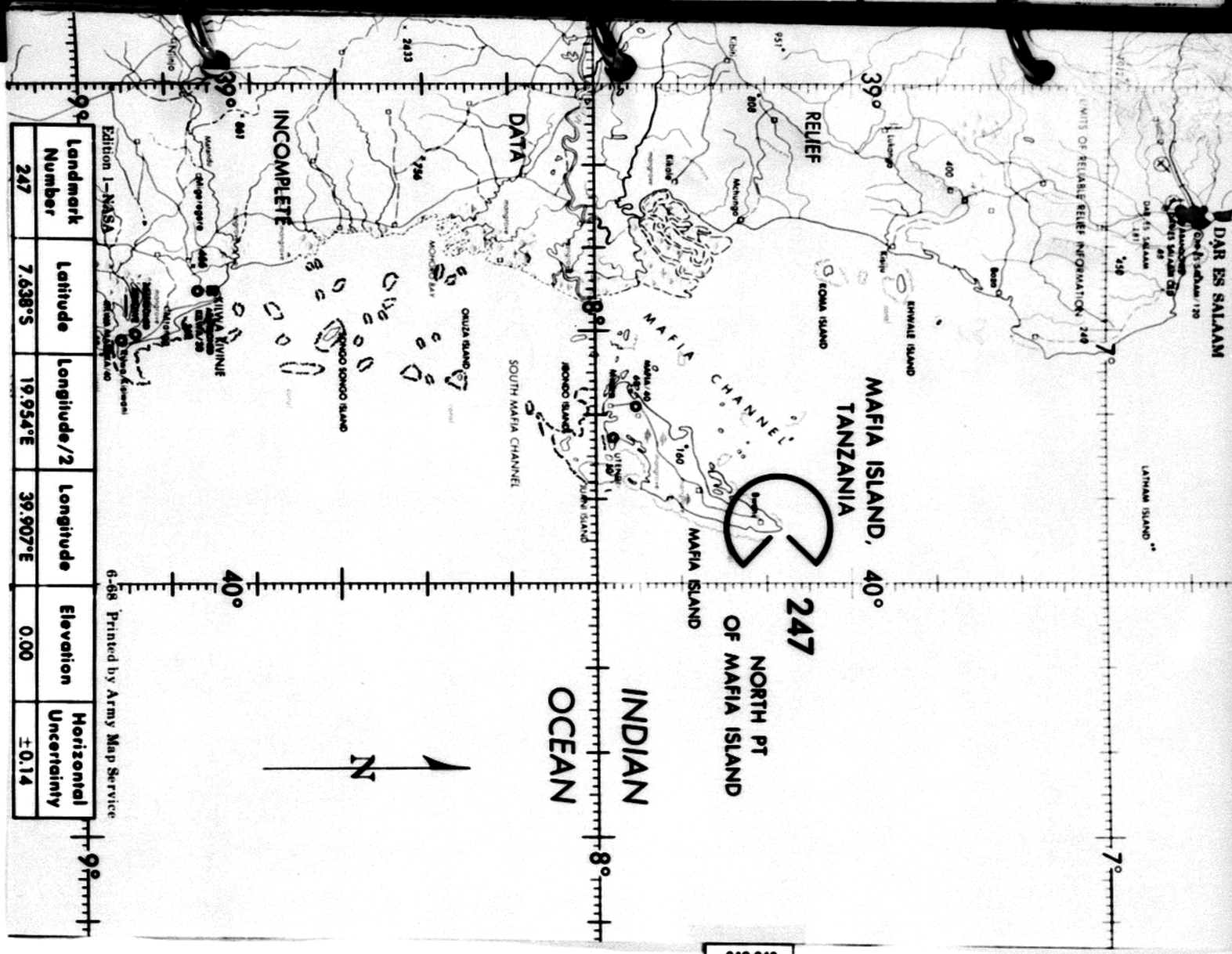


Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
243	14.255°S	17.570°E	35.141°E	+.26	±0.03
244	12.918°S	17.164°E	34.329°E	+.26	±0.18

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

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
247	7.638°S	19.954°E	39.907°E	0.00	±0.14

KENYA

TANZANIA

NORTHERNMOST PT, PEMBA ISLAND

KENYA
TANZANIA

WASINI ISLAND

KIRUI ISLAND

249

PEMBA CHANNEL

PEMBA ISLAND, TANZANIA

TANGA

YAMBE ISLAND

KARANGE ISLAND

PANGANI

RAS NUNGWI, TANZANIA

248

INDIAN OCEAN

TUMBATU ISLAND

MNEMBA ISLAND

NORTHERNMOST PT, ZANZIBAR ISLAND @ TOWN OF MWANDA

ZANZIBAR

ZANZIBAR

ZANZIBAR ISLAND

CHANNEL

PEMBA ISLAND

Edition 1–NASA

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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

REPUBLIC OF THE CONGO

KOLWEZI DAM, REP OF THE CONGO

250

NE END OF DAM, LAKE KOLWEZI DAM LENGTH-162 METERS; WIDTH-INDETERMINATE

KOLWEZI

ZAMBIA

Edition 1–NASA

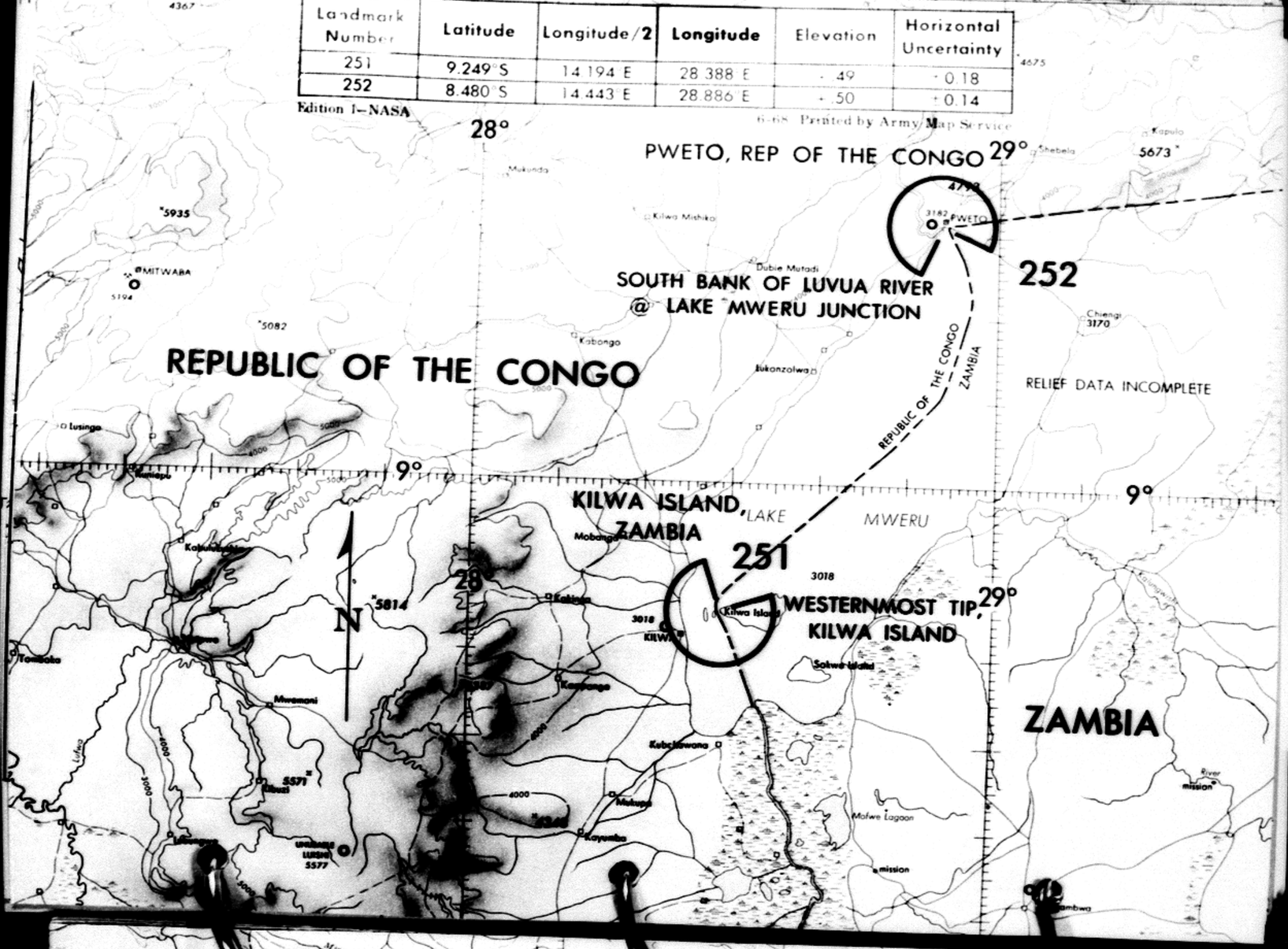
6-68 Printed by Army Map Service

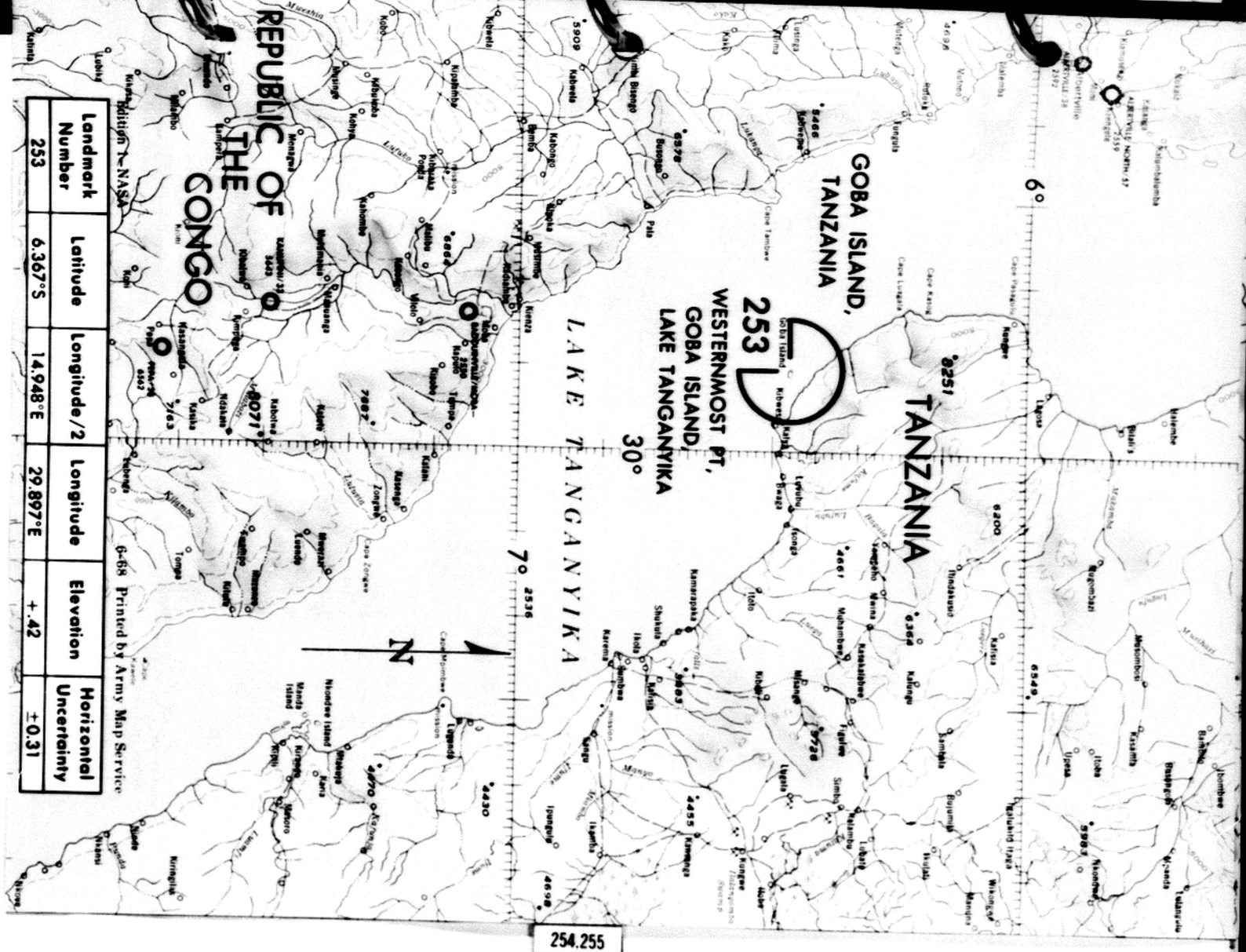
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
250	10.499°S	12.734°E	25.467°E	+.76	±0.44

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

Edition 1—NASA

6-68 Printed by Army Map Service

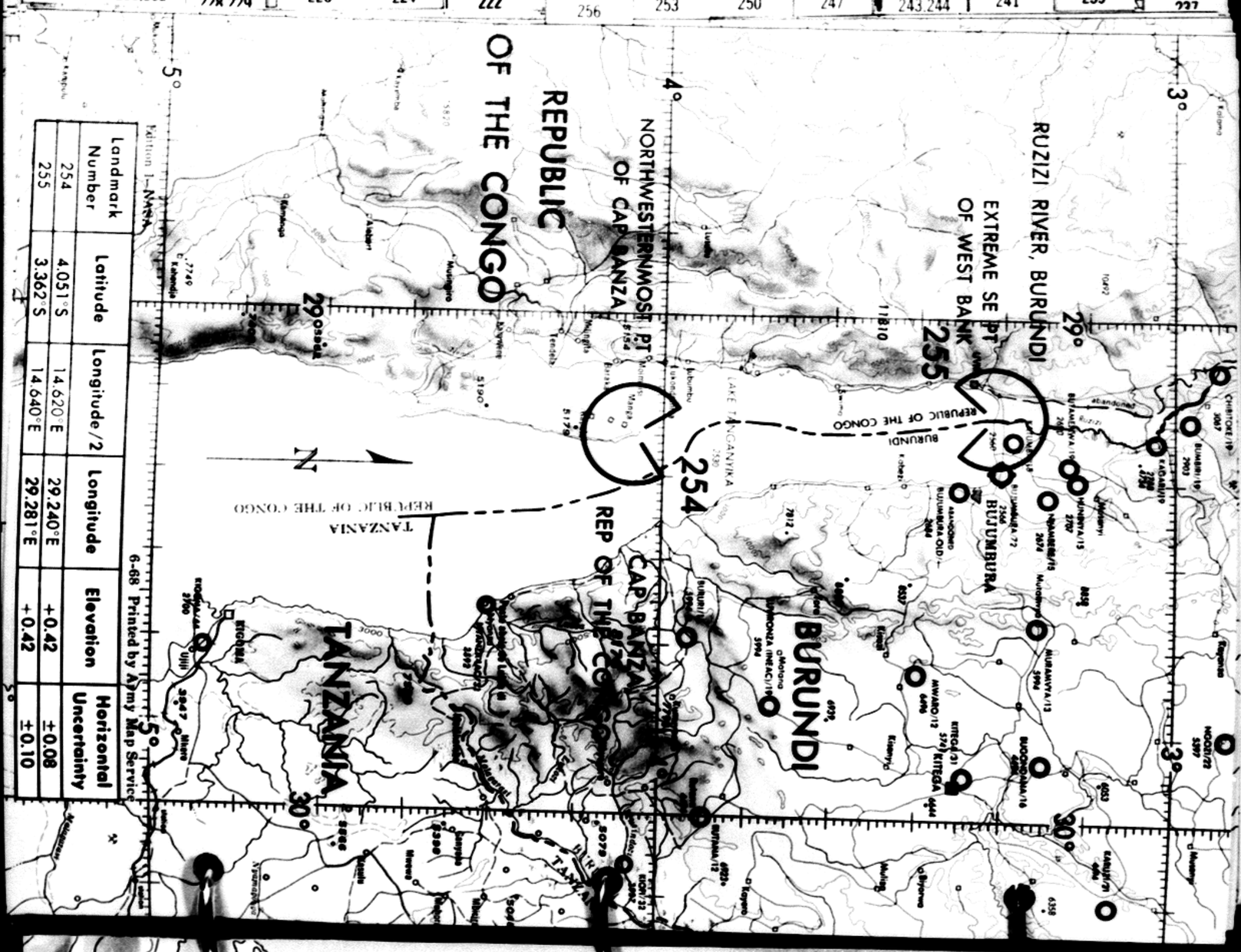




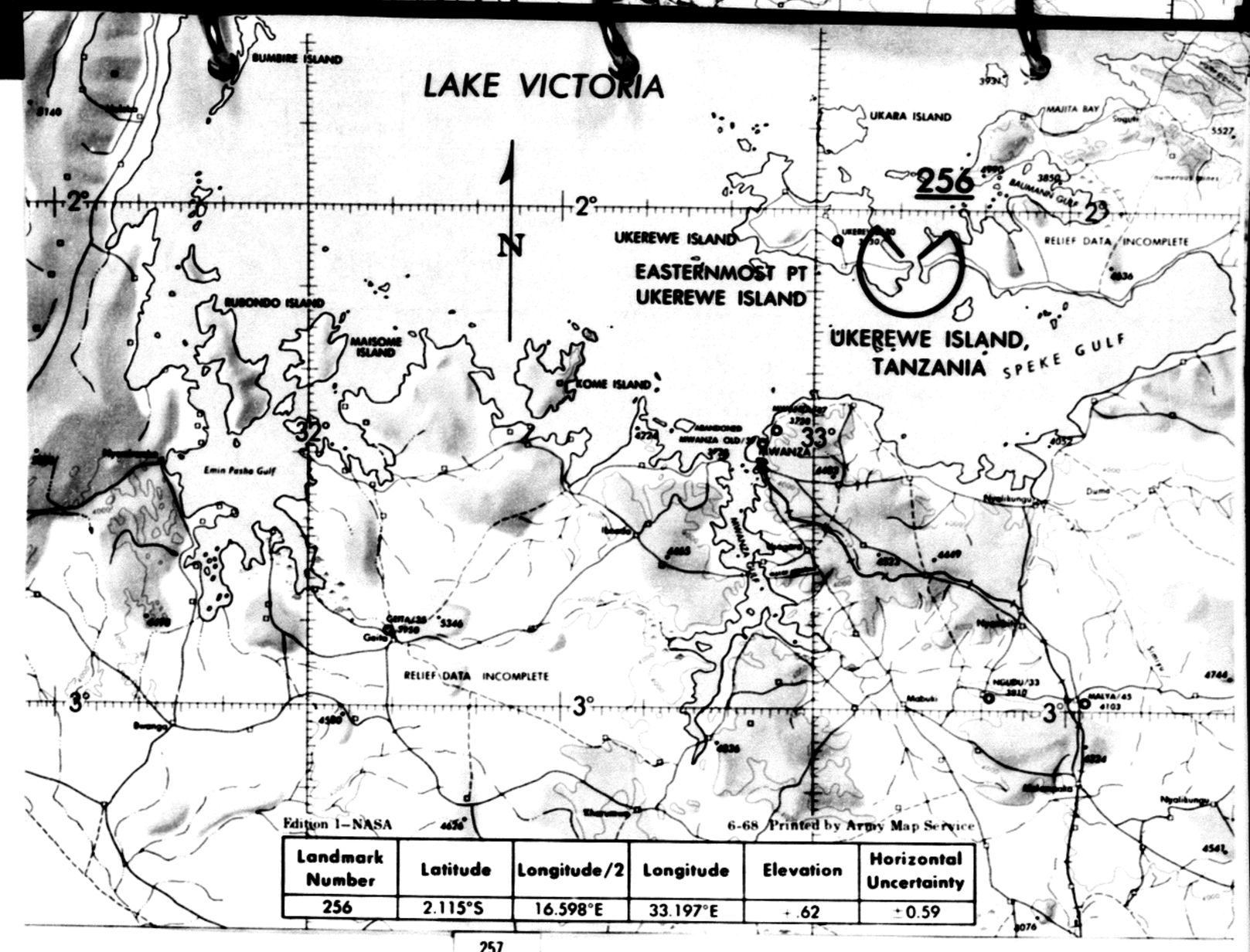
Edition 1—NASA

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

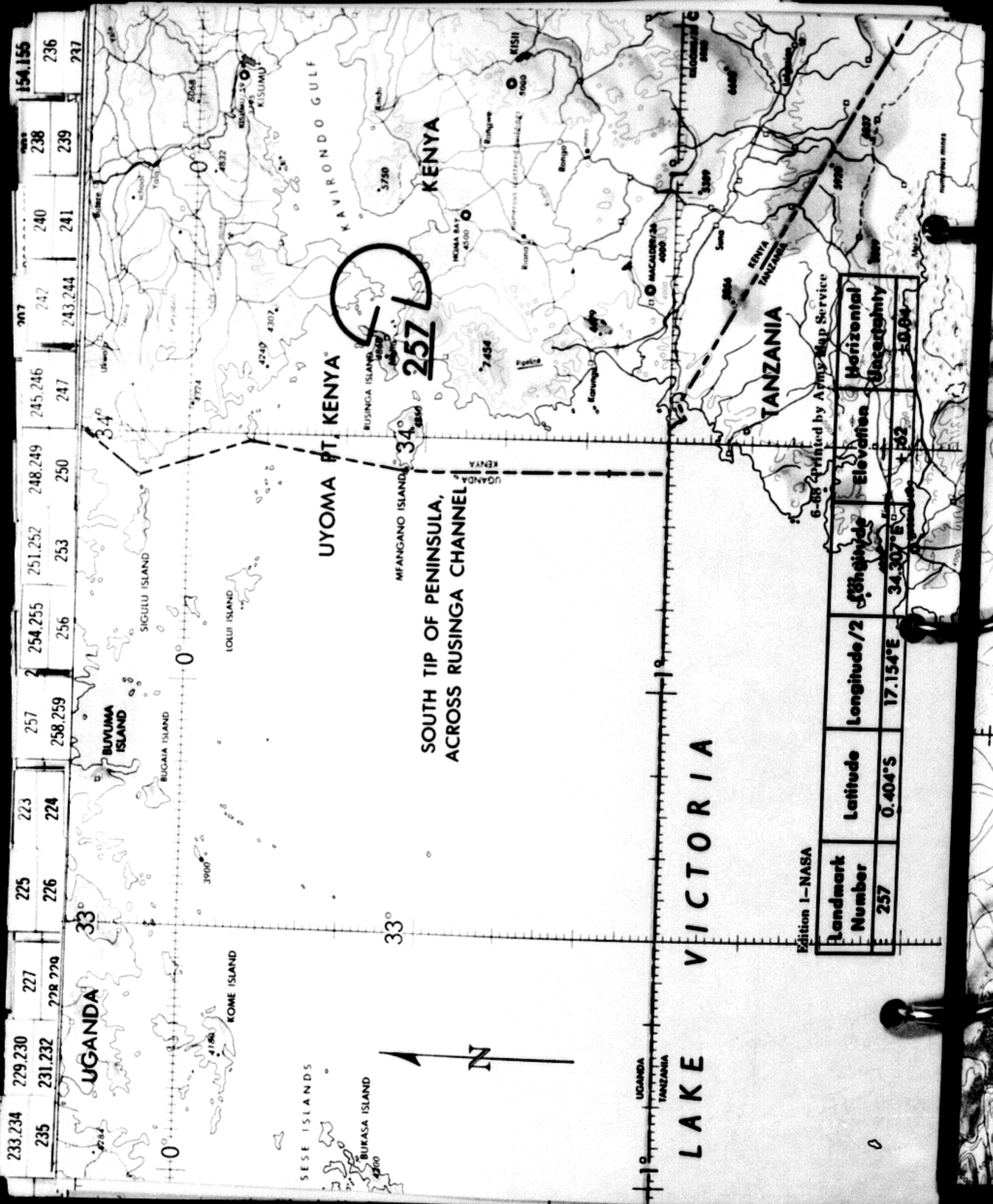
6-68 Printed by Army Map Service



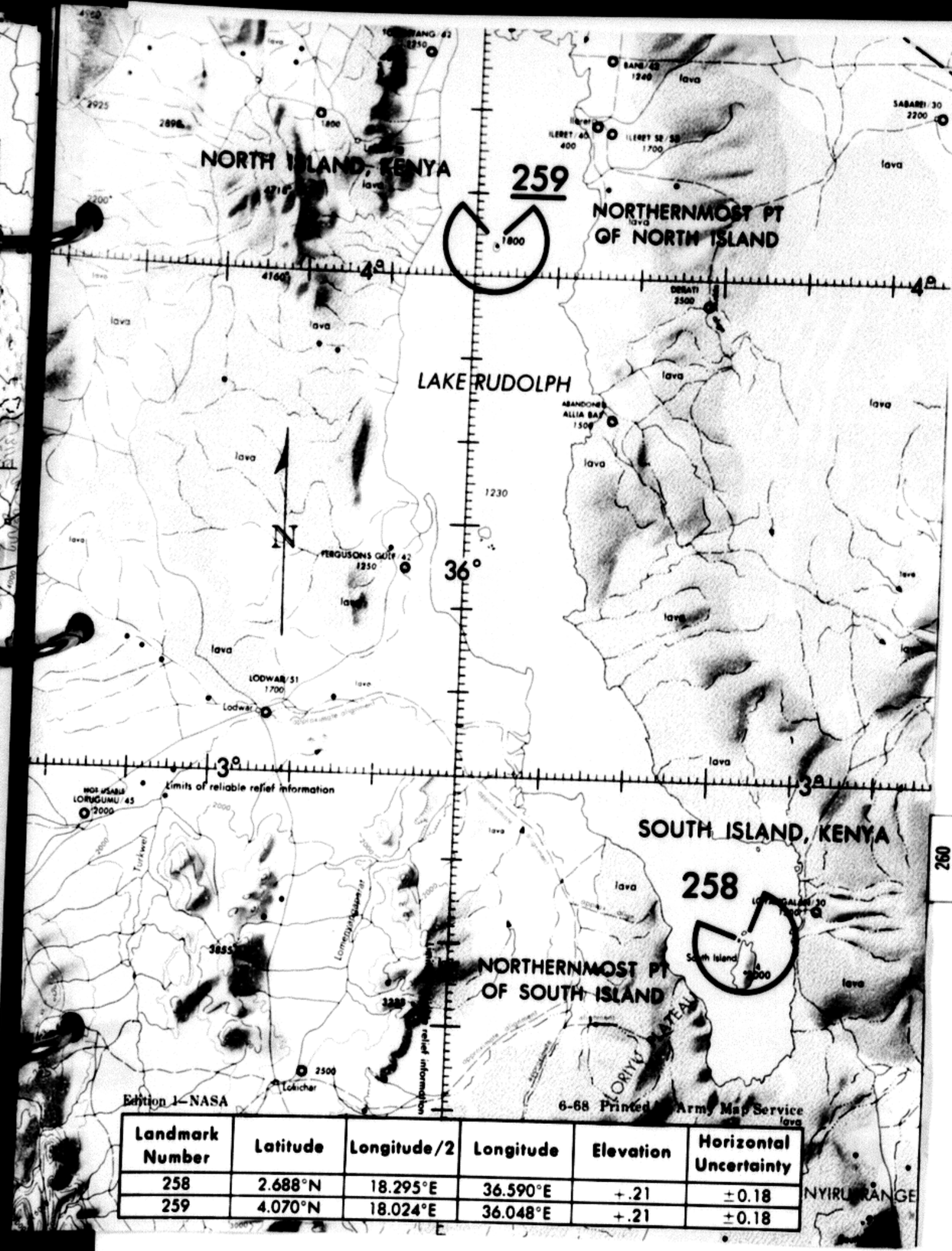
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
254	4.051°S	14.620°E	29.240°E	+0.42	±0.08
255	3.362°S	14.640°E	29.281°E	+0.42	±0.10



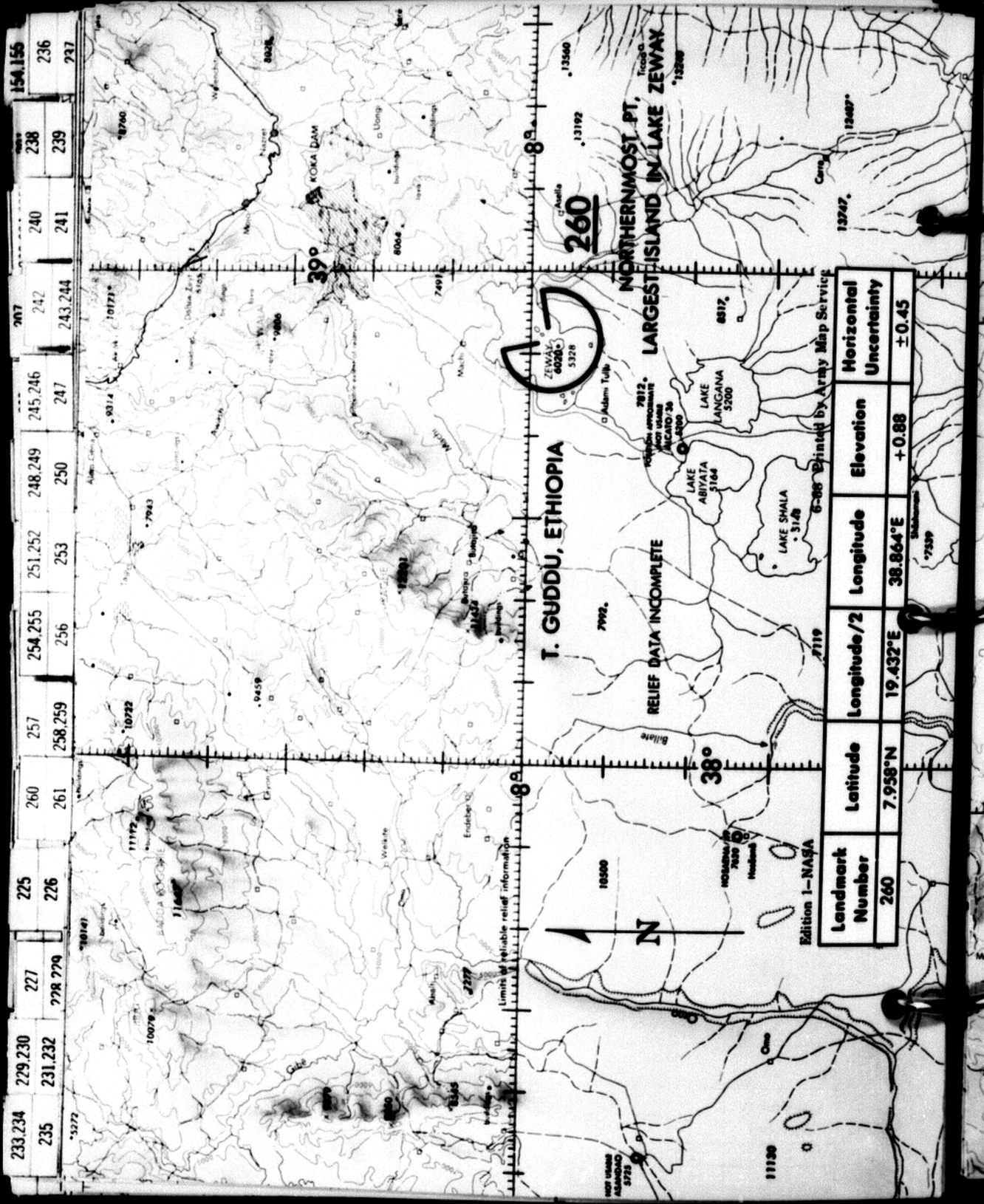
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
256	2.115°S	16.598°E	33.197°E	+.62	±0.59



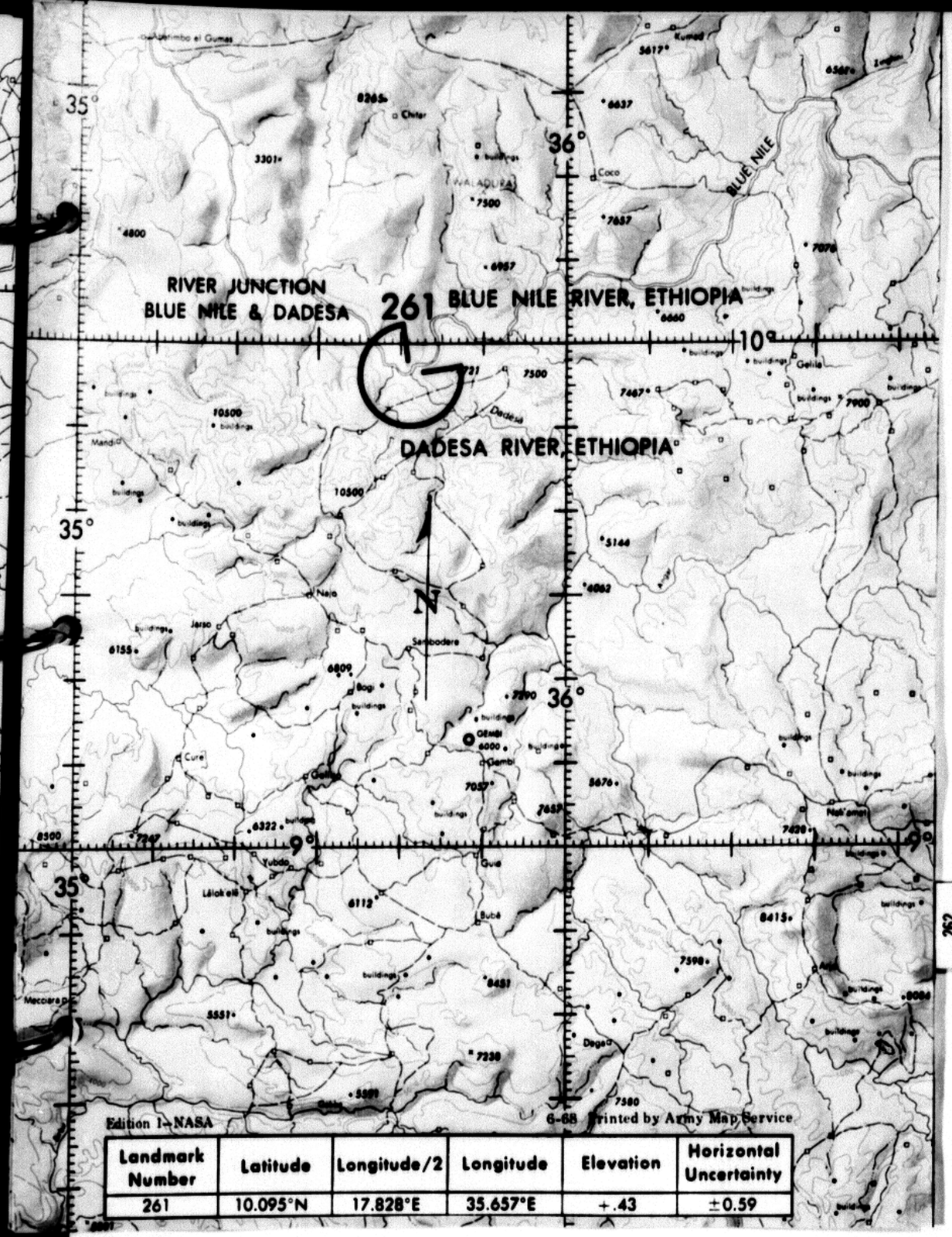
Landmark Number	Latitude	Longitude/2	Longitude
257	0.404°S	17.154°E	



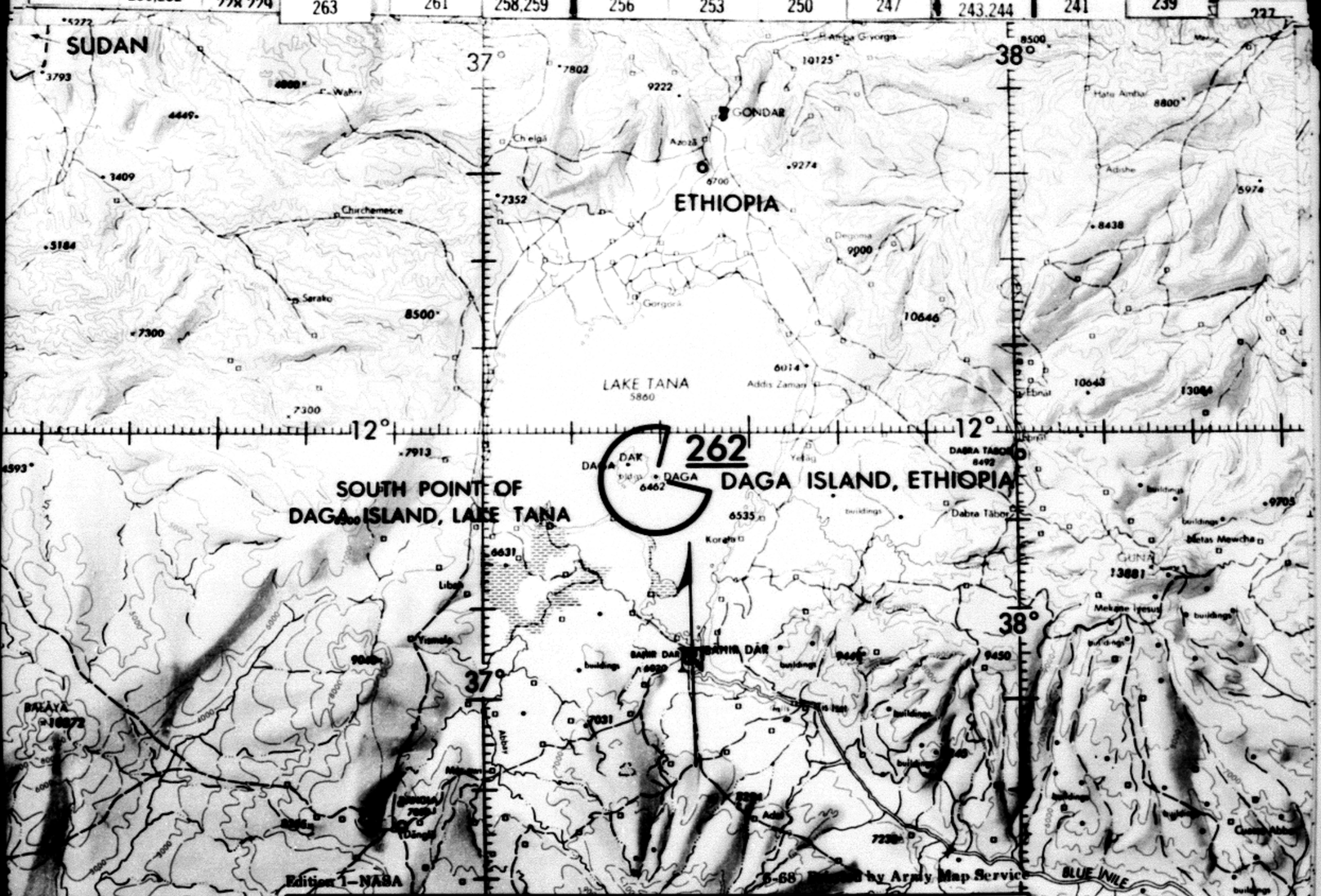
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
258	2.688°N	18.295°E	36.590°E	+.21	±0.18
259	4.070°N	18.024°E	36.048°E	+.21	±0.18



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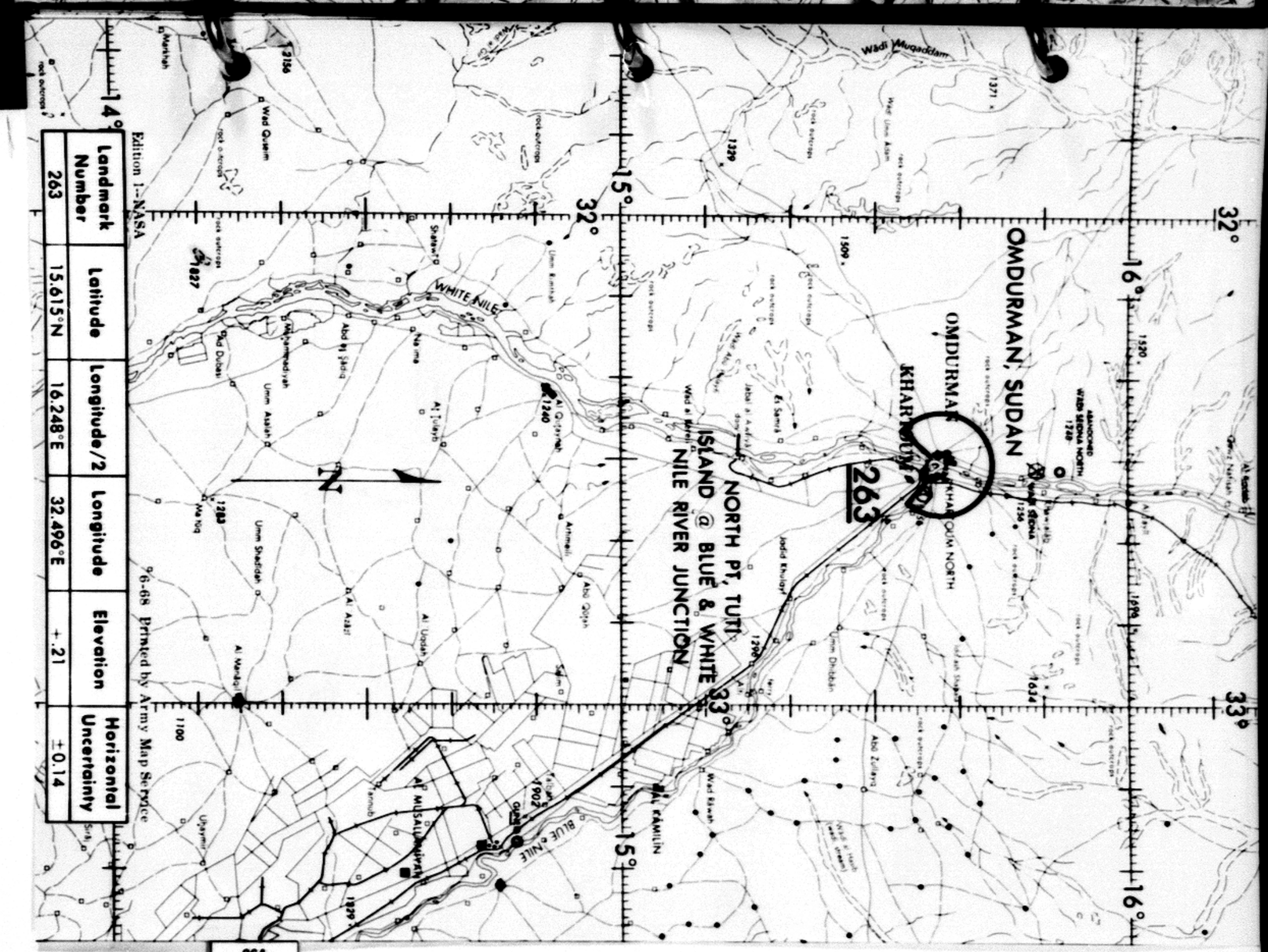
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
262	11.869°N	18.672°E	37.344°E	+.99	±0.35



Edition 1—NASA 5-68 Printed by Army Map Service

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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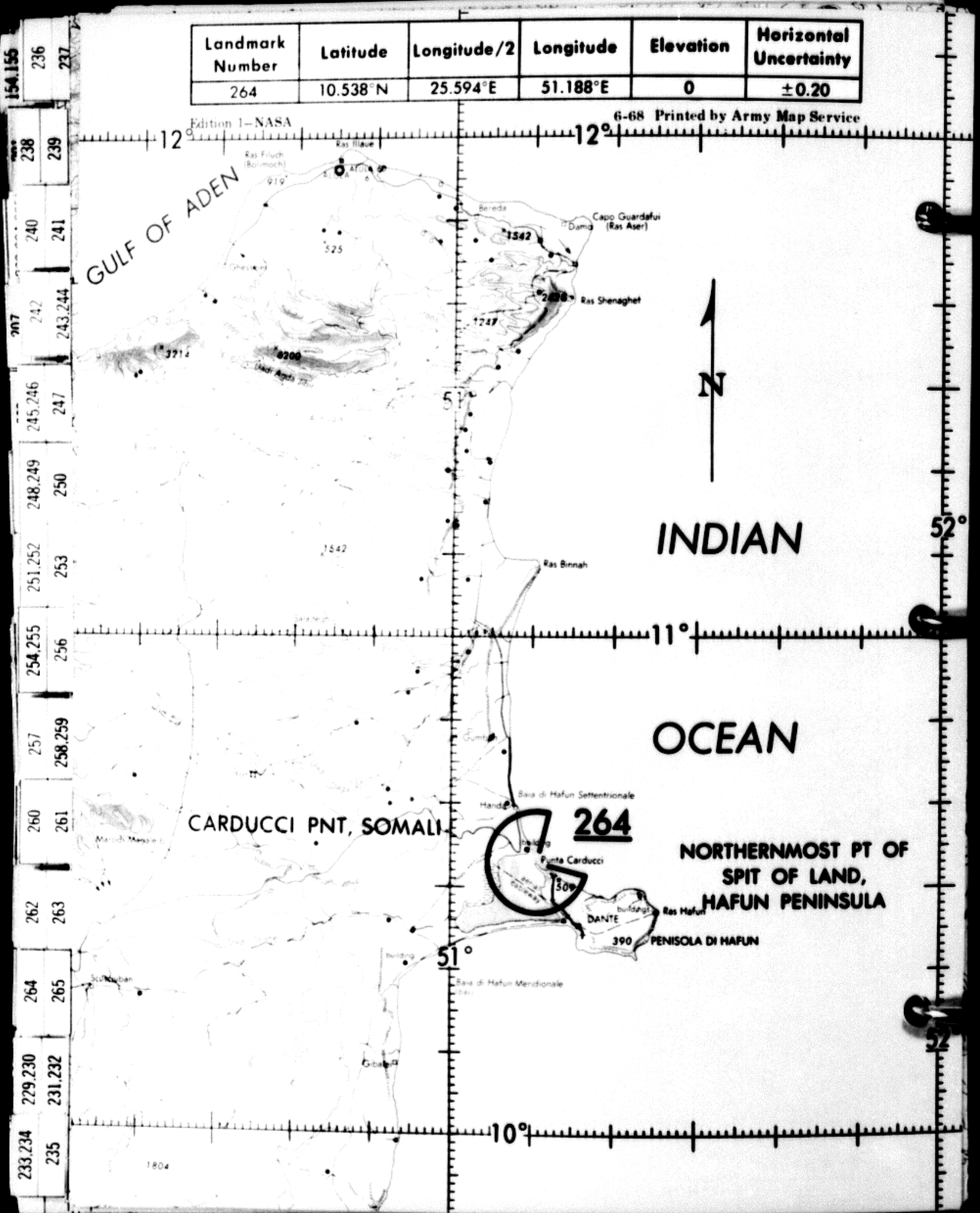
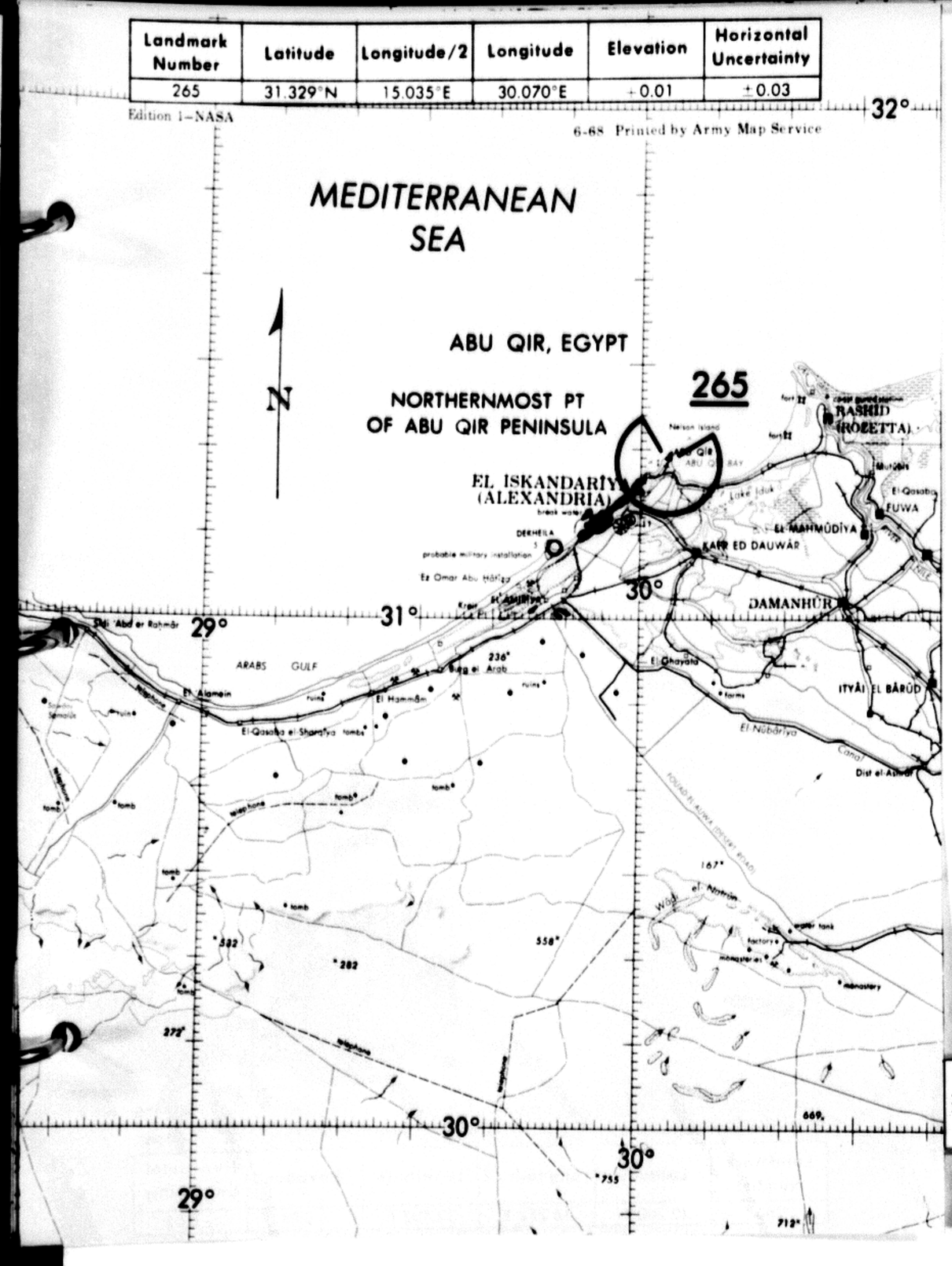
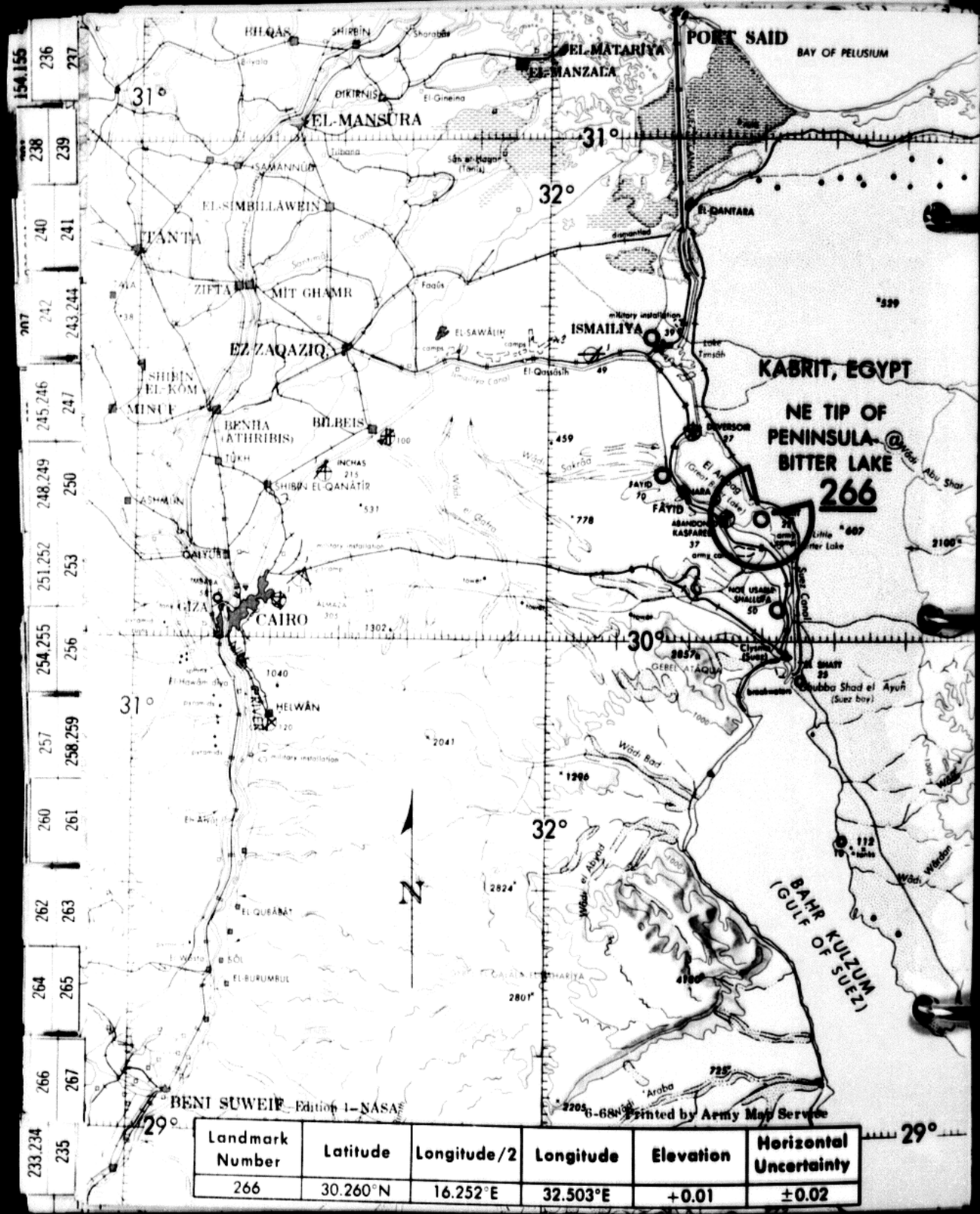


Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
265	31.329°N	15.035°E	30.070°E	+0.01	±0.03

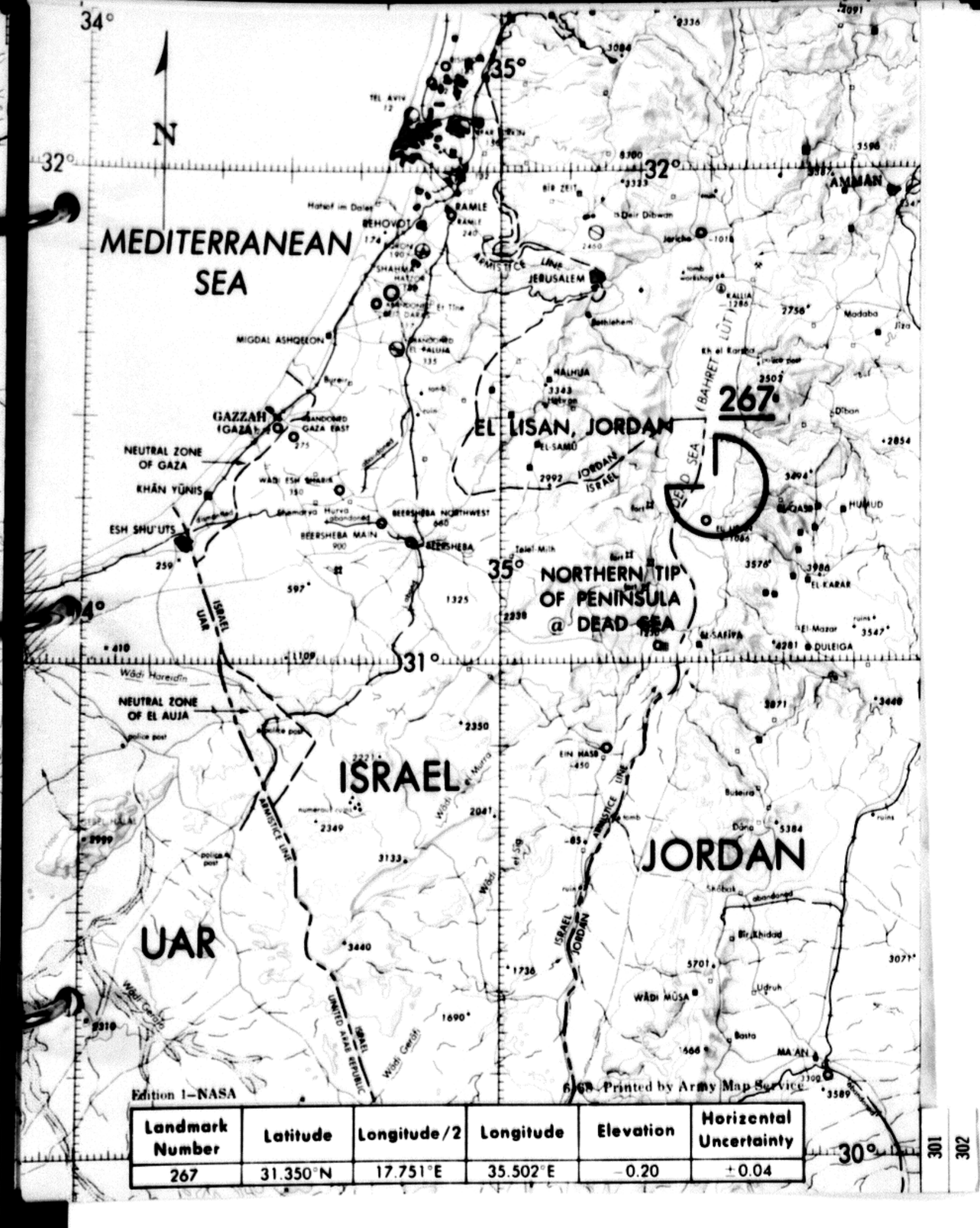
Edition 1–NASA

6-68 Printed by Army Map Service

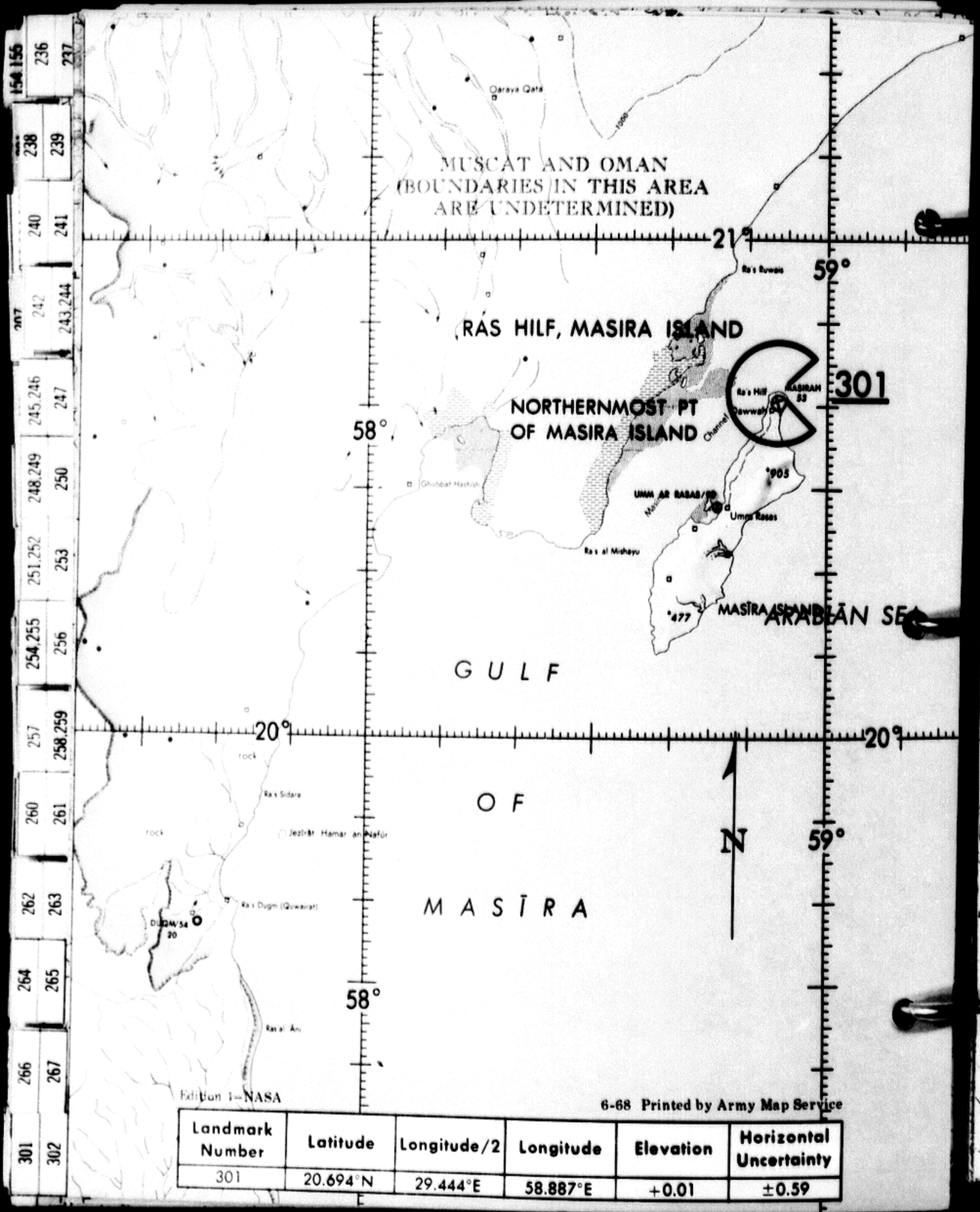




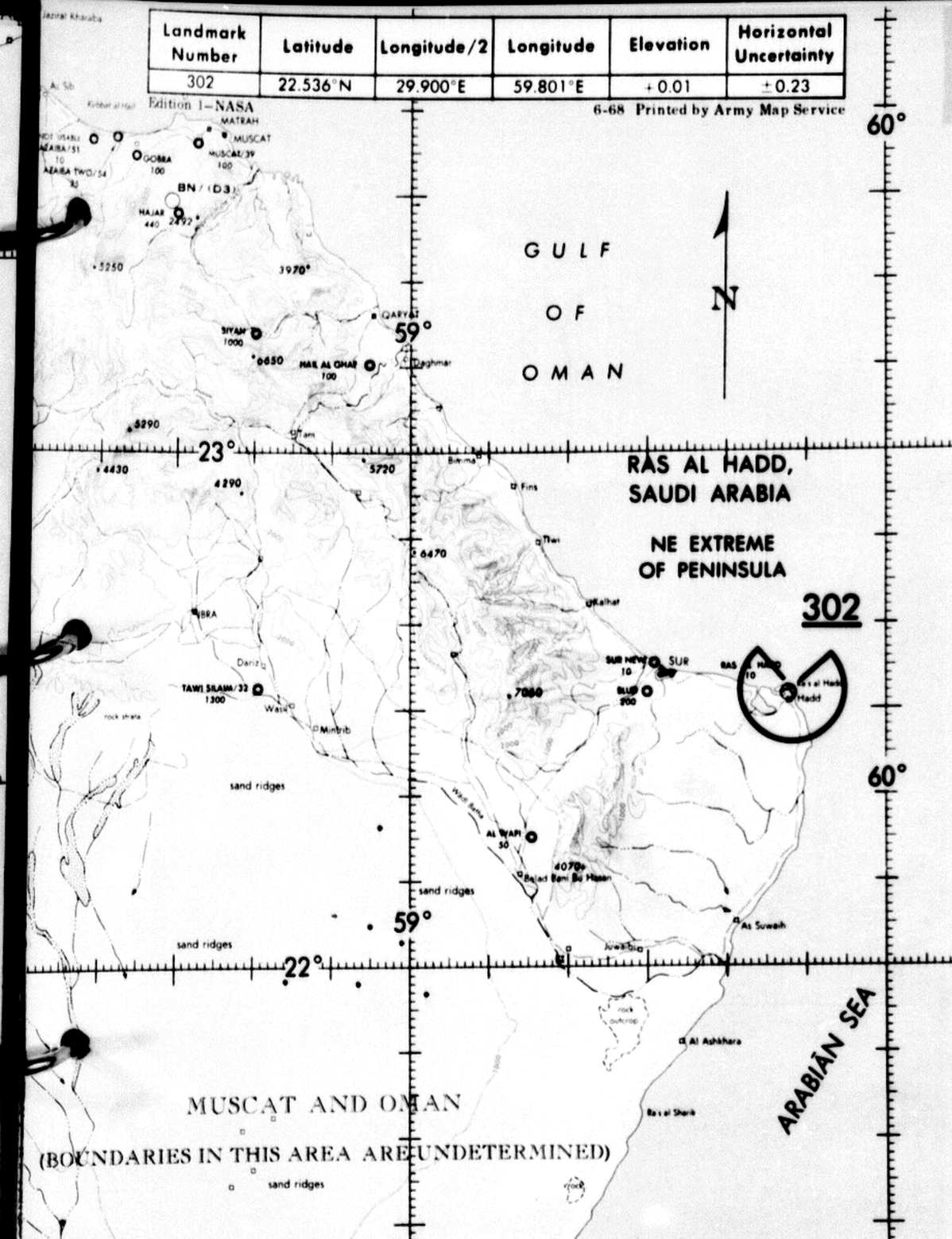
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
266	30.260°N	16.252°E	32.503°E	+0.01	±0.02



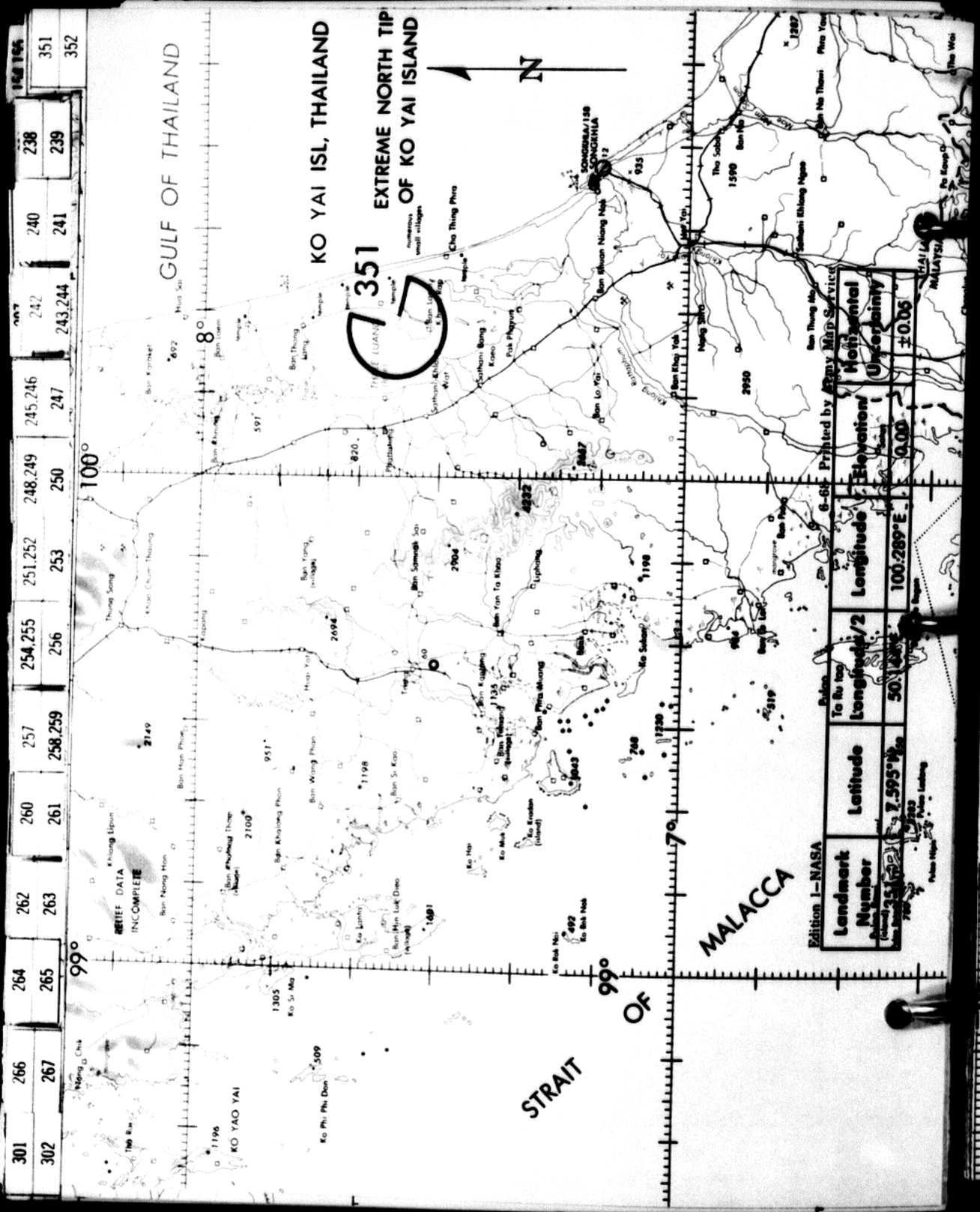
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
267	31.350°N	17.751°E	35.502°E	−0.20	±0.04

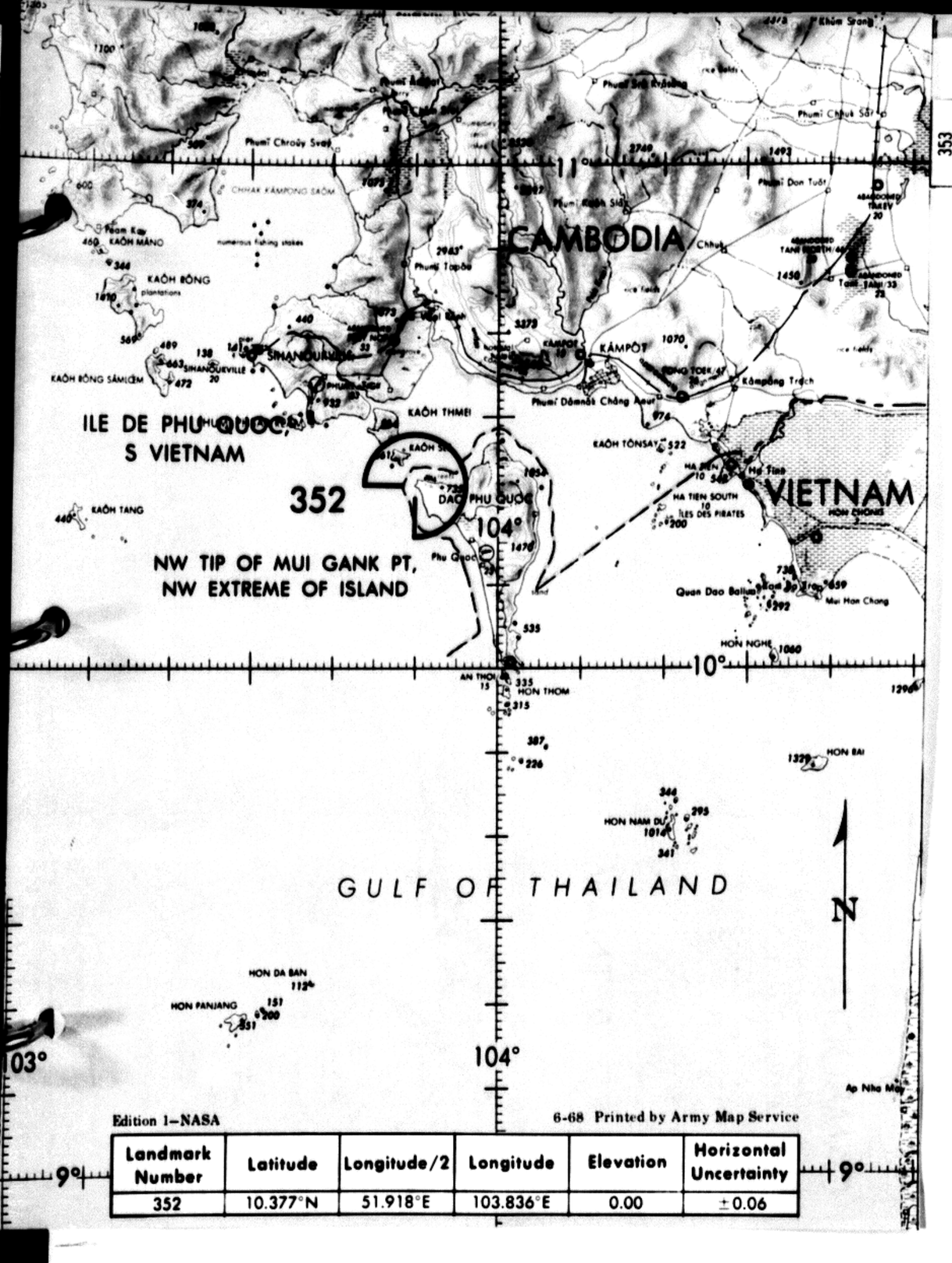


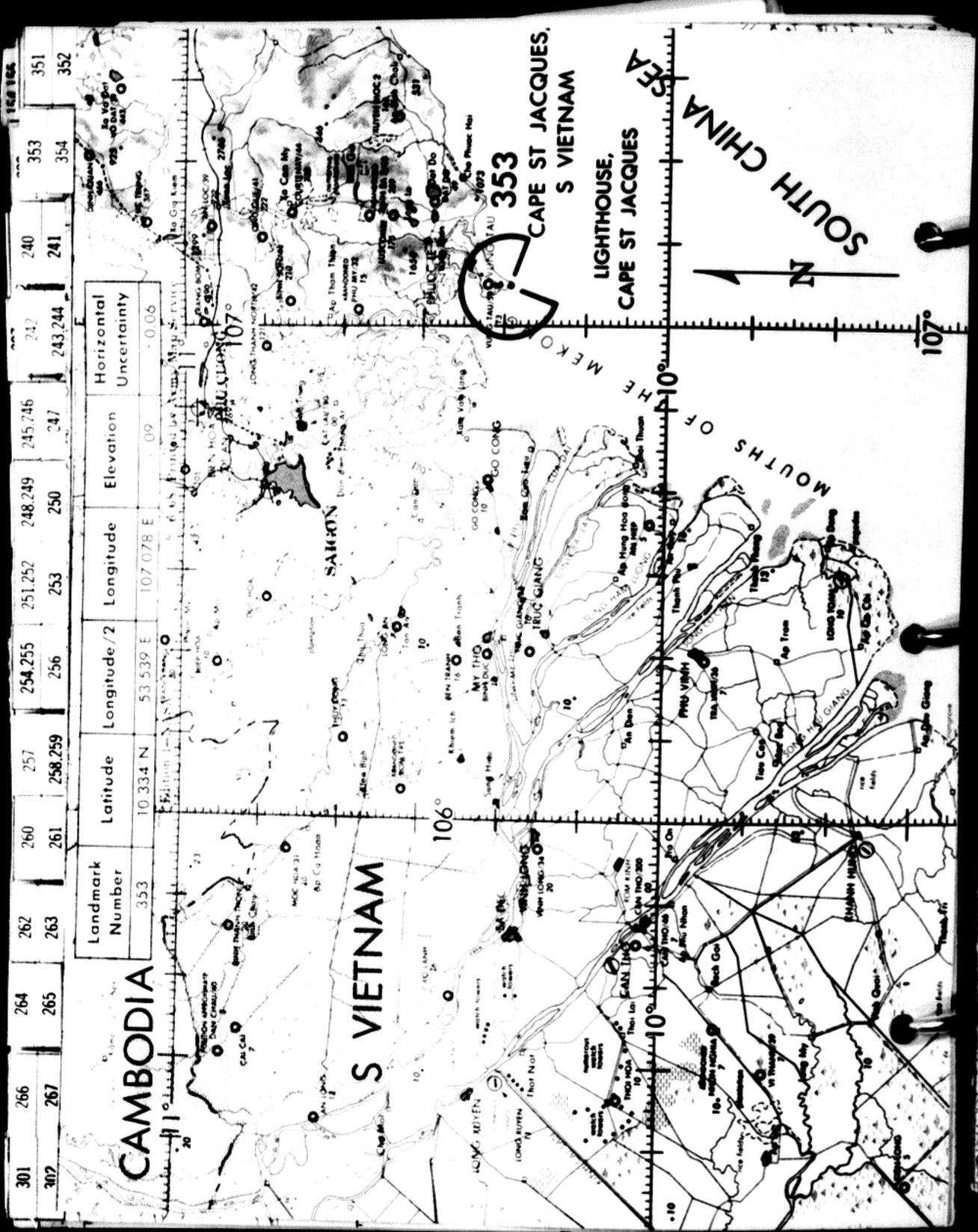
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
301	20.694°N	29.444°E	58.887°E	+0.01	±0.59



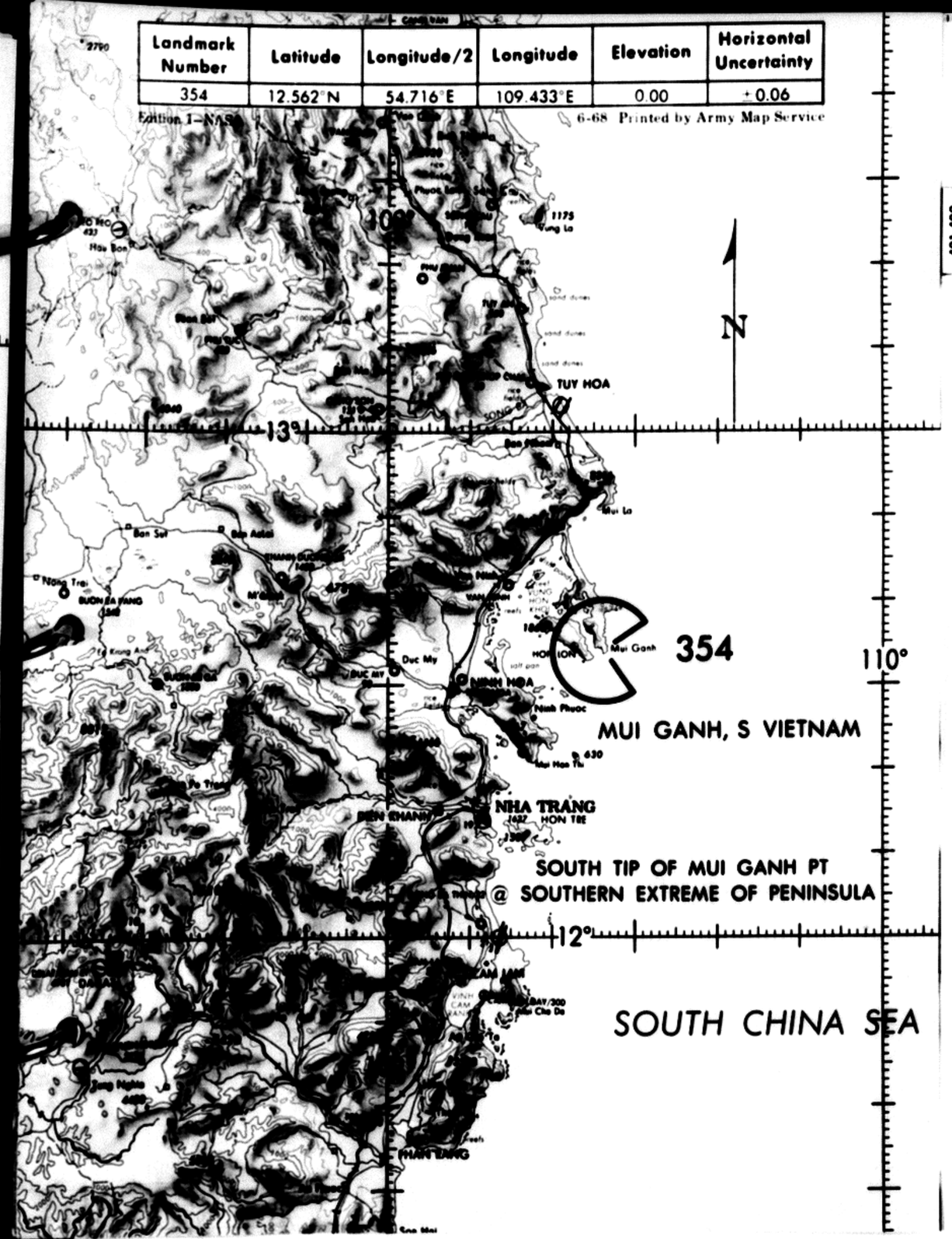
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
302	22.536°N	29.900°E	59.801°E	+0.01	±0.23


GULF OF THAILAND
KO YAI ISL, THAILAND
EXTREME NORTH TIP OF KO YAI ISLAND
351
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
50.104°E
100.209°E
0.00
±0.06


CAMBODIA
VIETNAM
ILE DE PHU QUOC, S VIETNAM
352
NW TIP OF MUI GANK PT, NW EXTREME OF ISLAND
GULF OF THAILAND
KAÔH RÔNG
KAÔH RÔNG SÂMLŒM
KAÔH THMEI
KAÔH TÔNSAY
KAÔH TANG
KAMPOT
SIHANOUKVILLE
DAO PHU QUOC
HON NAM DU
HON DA BAN
HON PANJANG
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
353	10.334 N	53.539 E	107.078 E	09	±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

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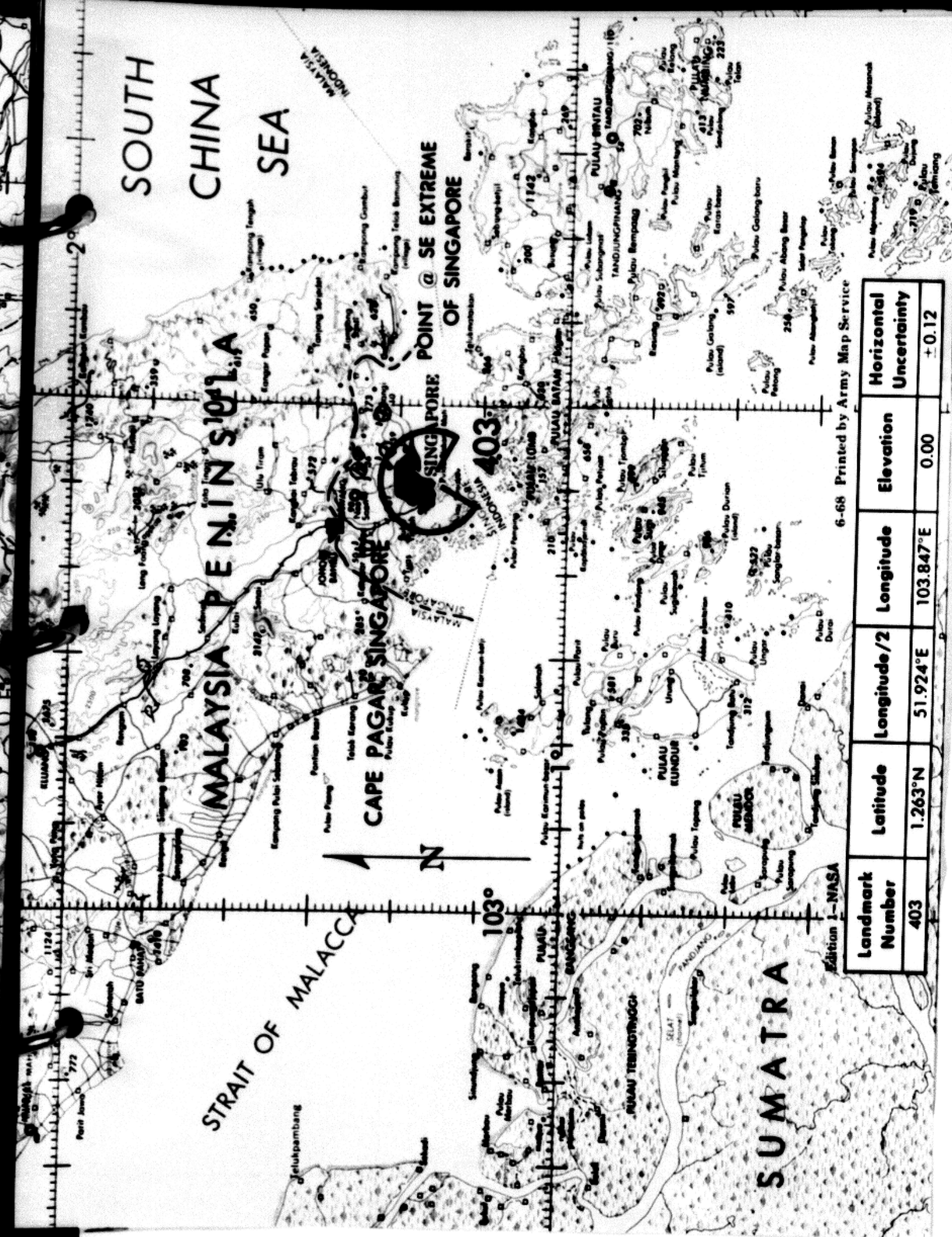
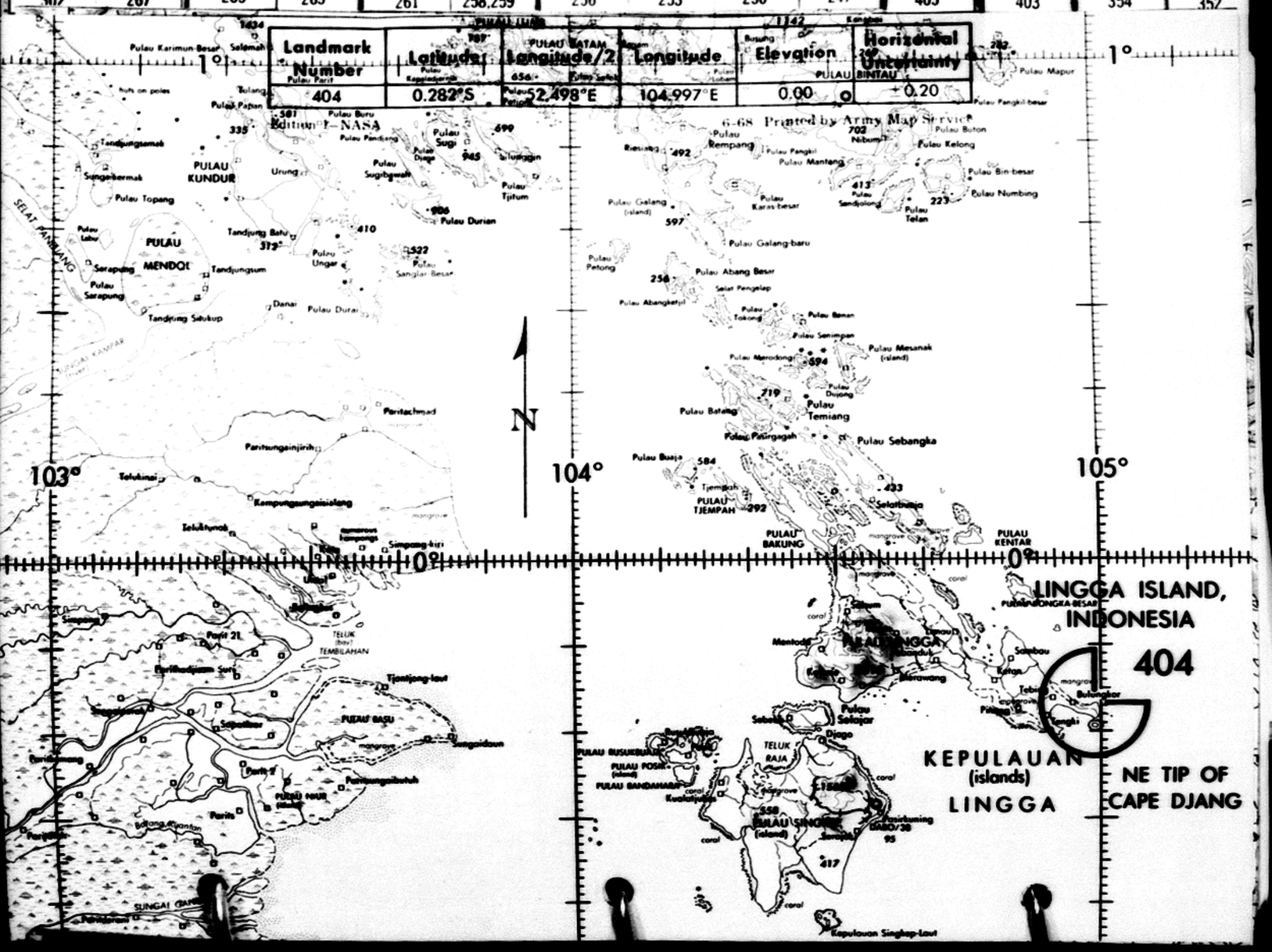
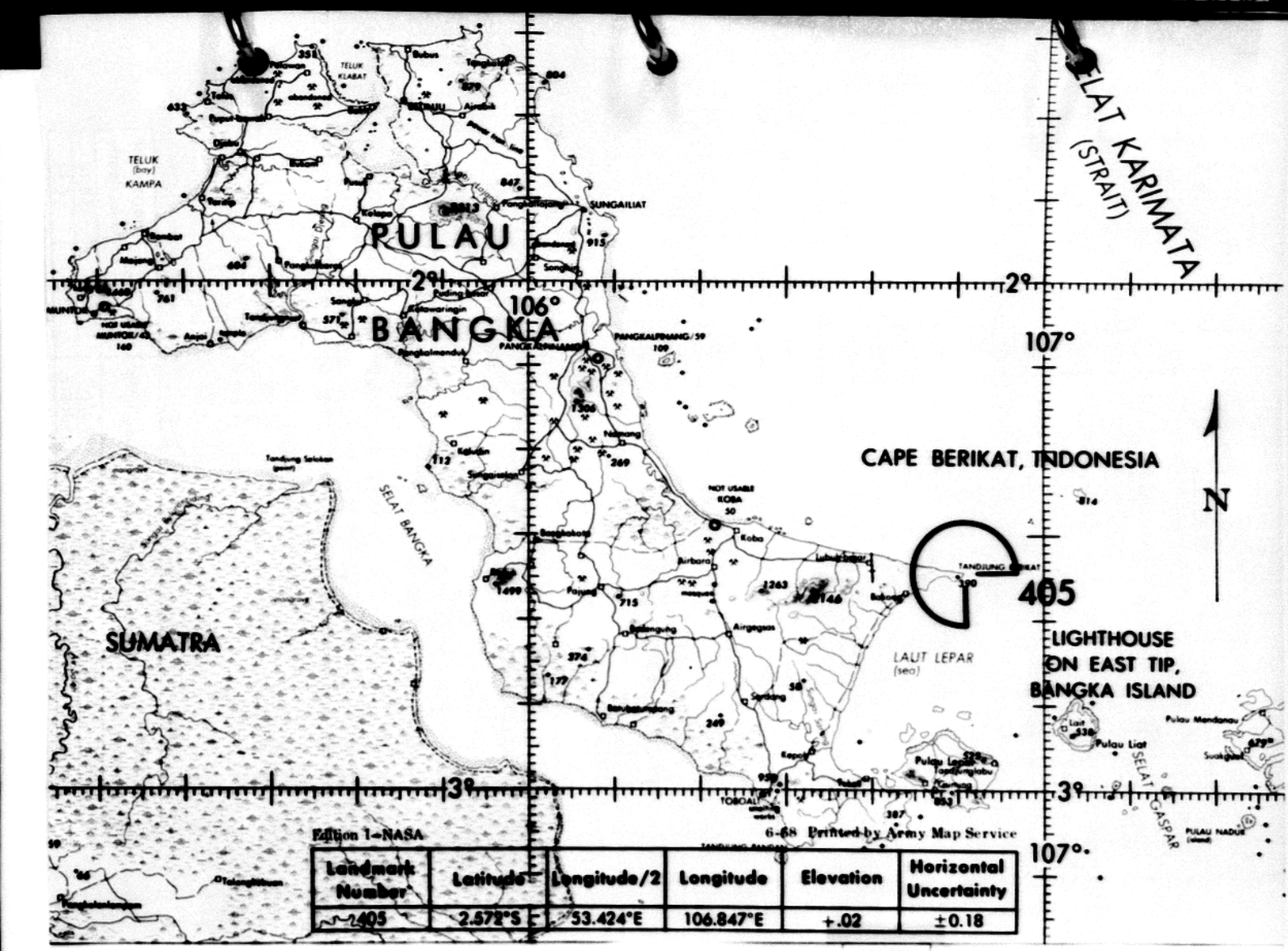
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
401	2.612°N	49.345°E	98.690°E	+0.50	±0.18
402	1.569°N	49.358°E	98.715°E	0.00	±0.18



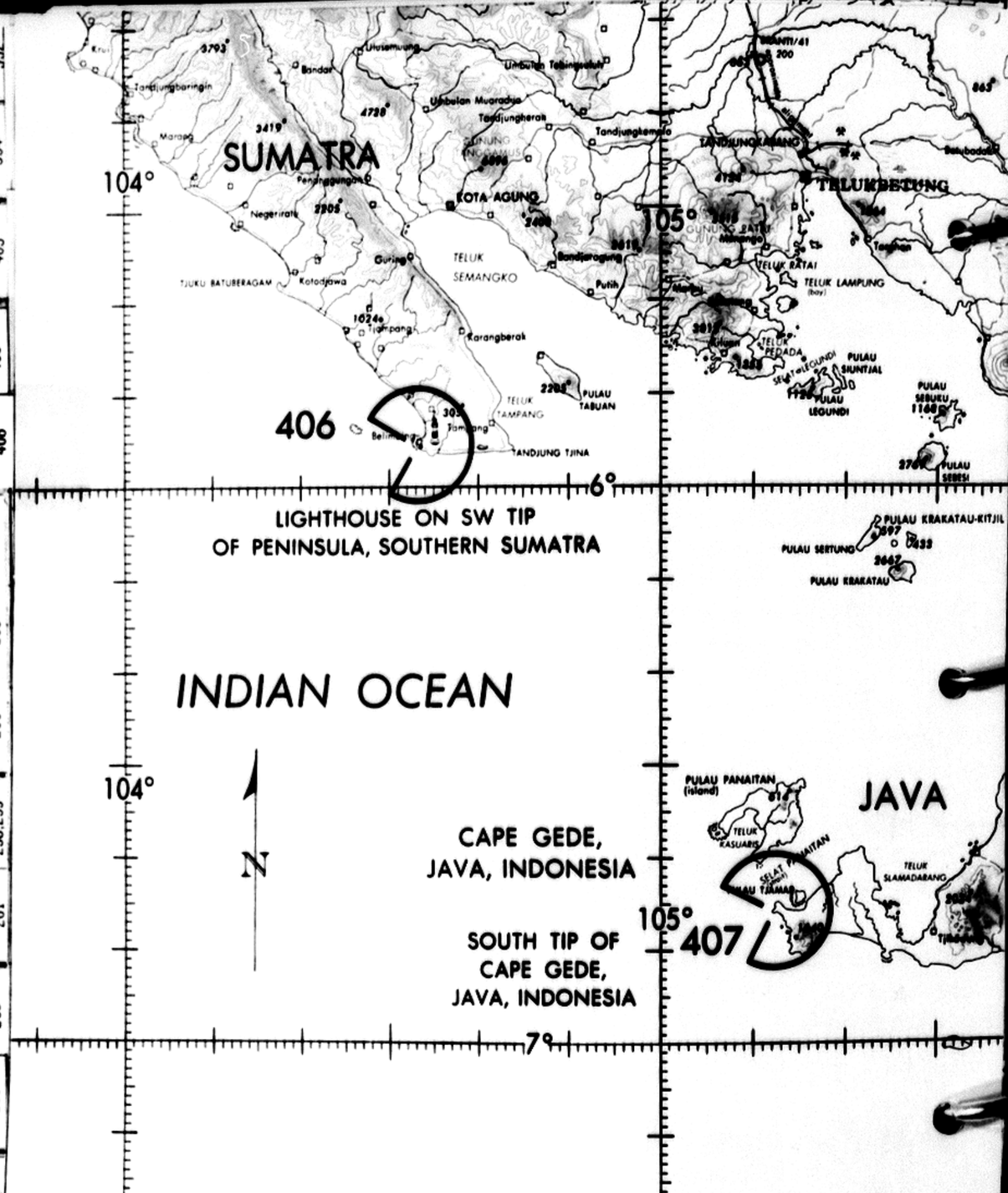
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
403	1.263°N	51.924°E	103.847°E	0.00	±0.12





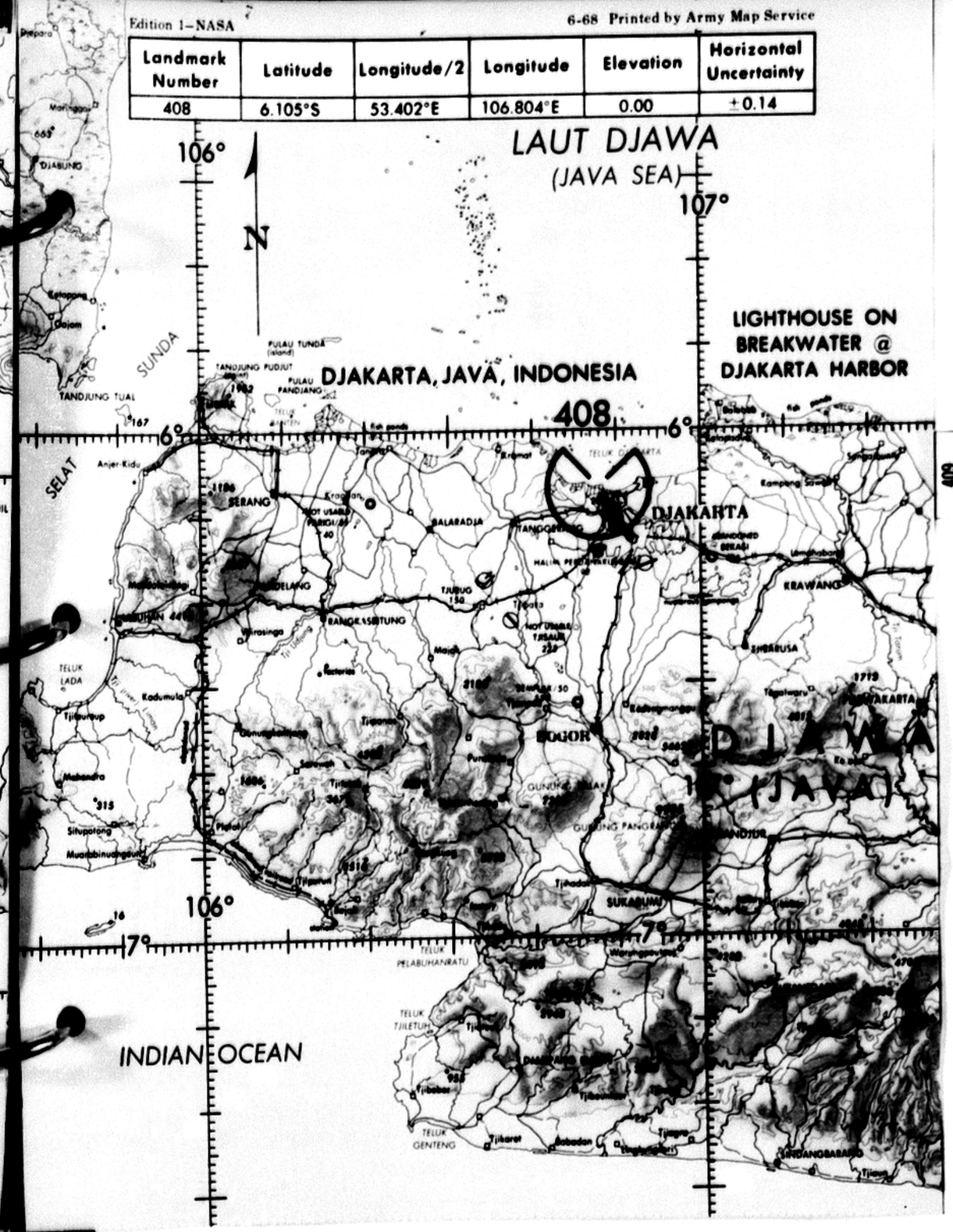
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
404	0.282°S	52.498°E	104.997°E	0.00	±0.20

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



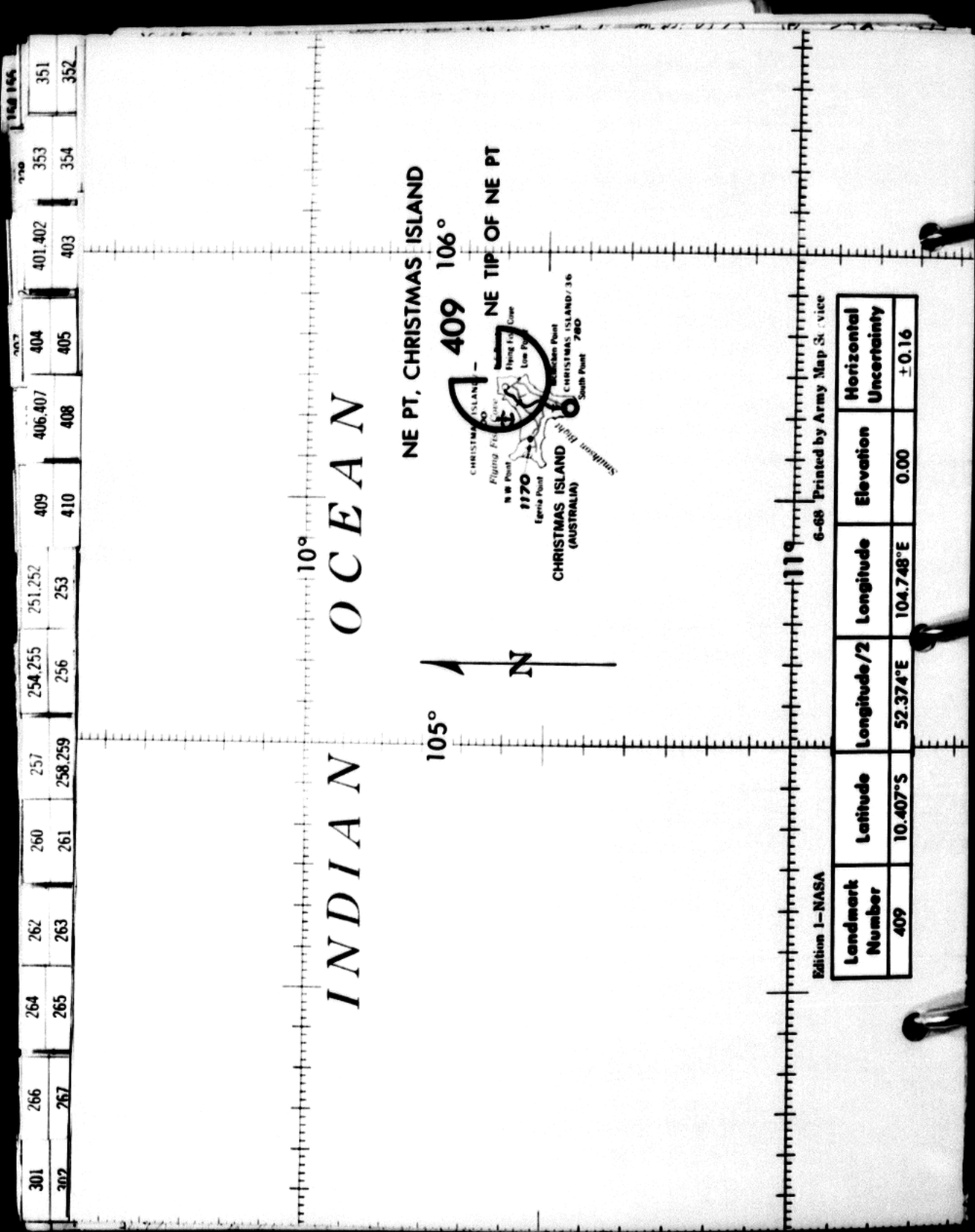
Edition 1–NASA 6-68 Printed by Army Map Service

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

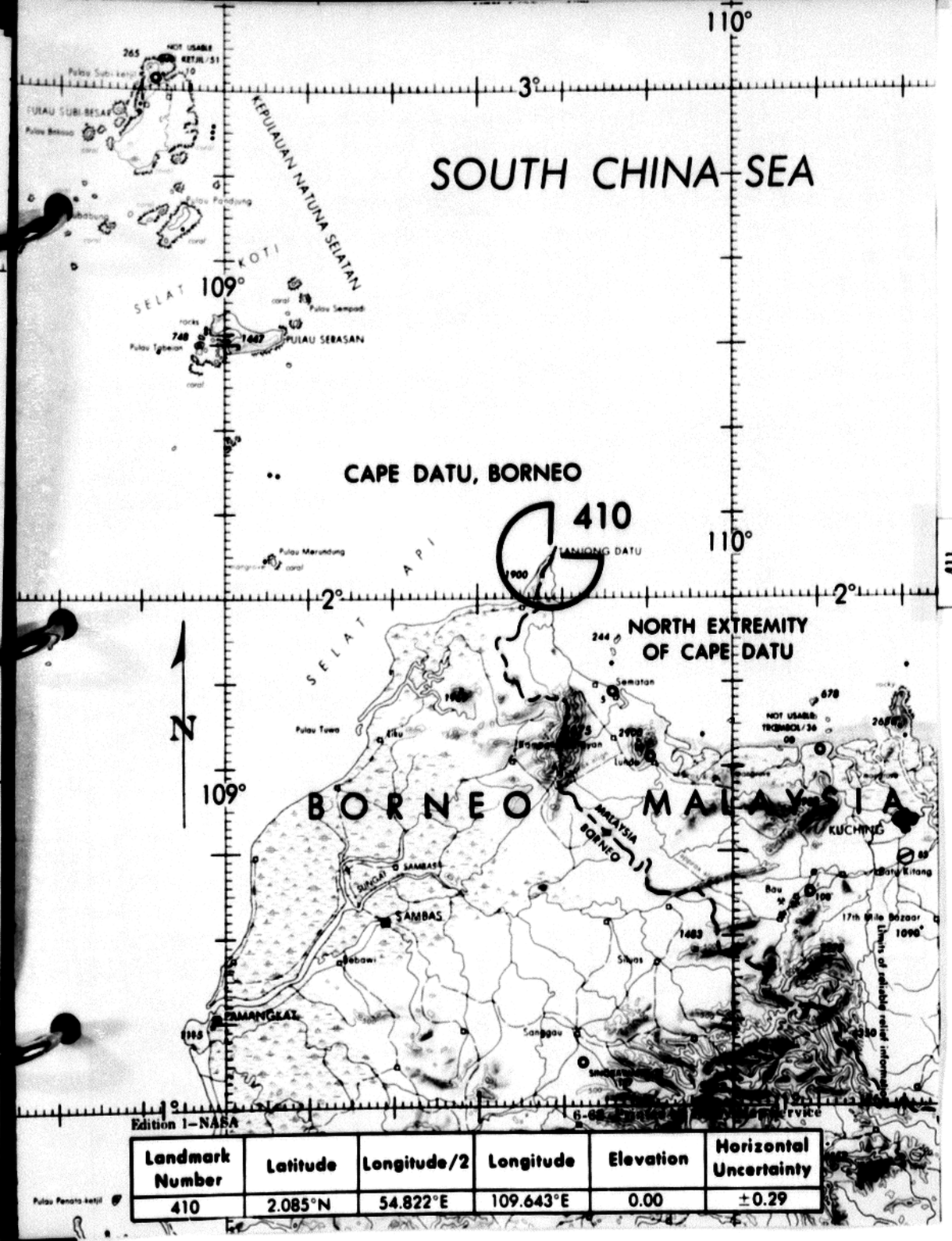


Edition 1–NASA 6-68 Printed by Army Map Service

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



Edition 1–NASA

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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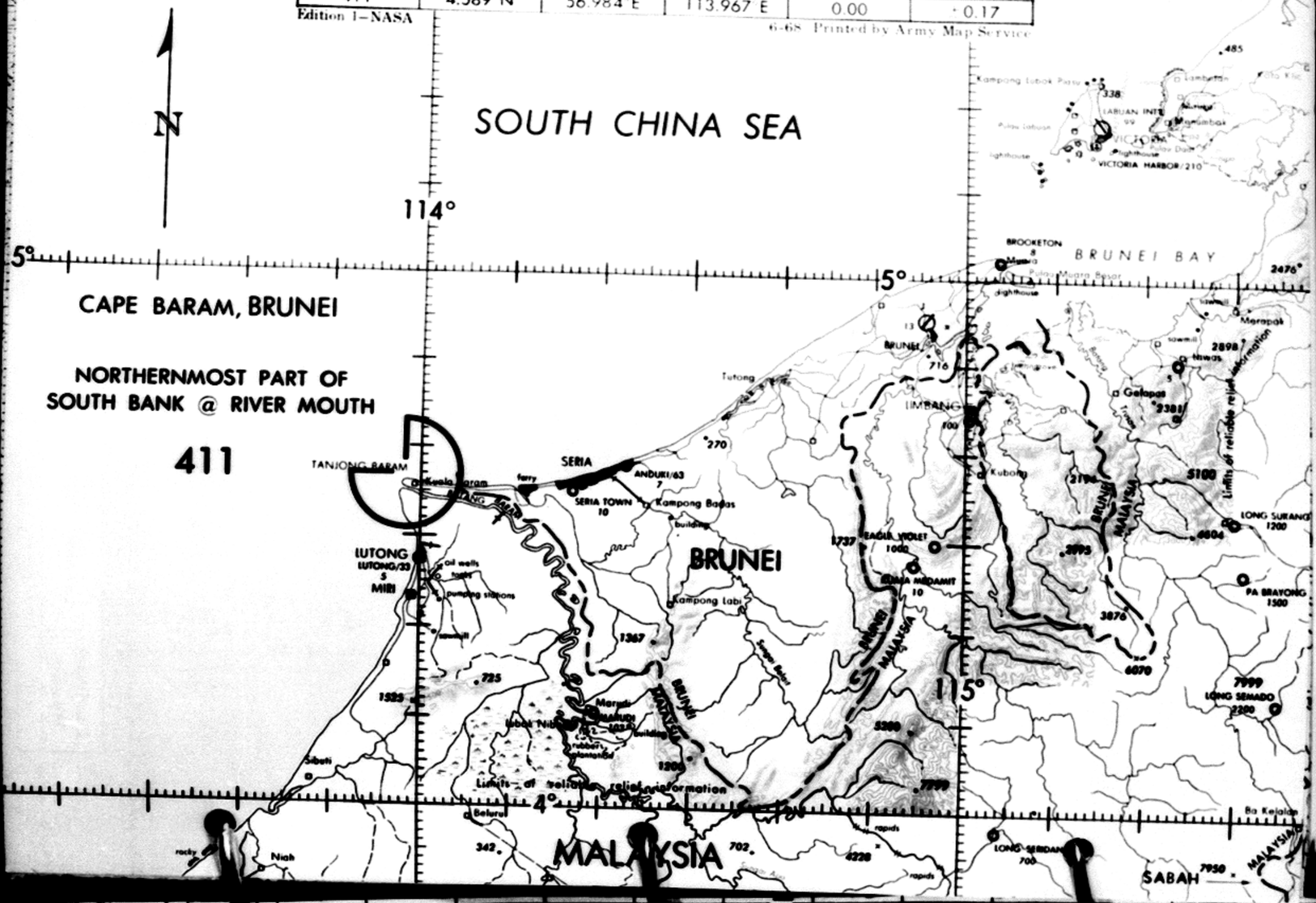
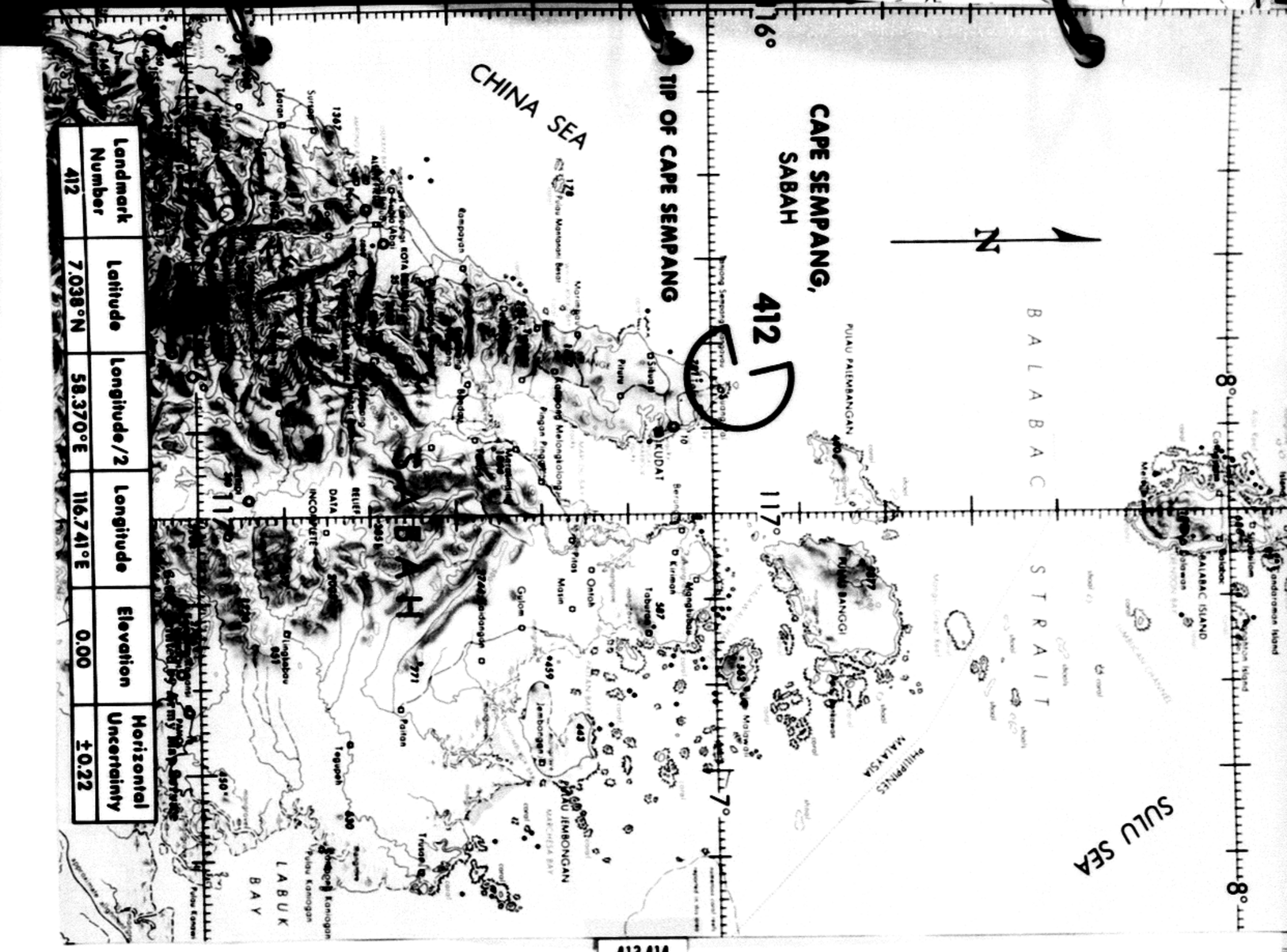
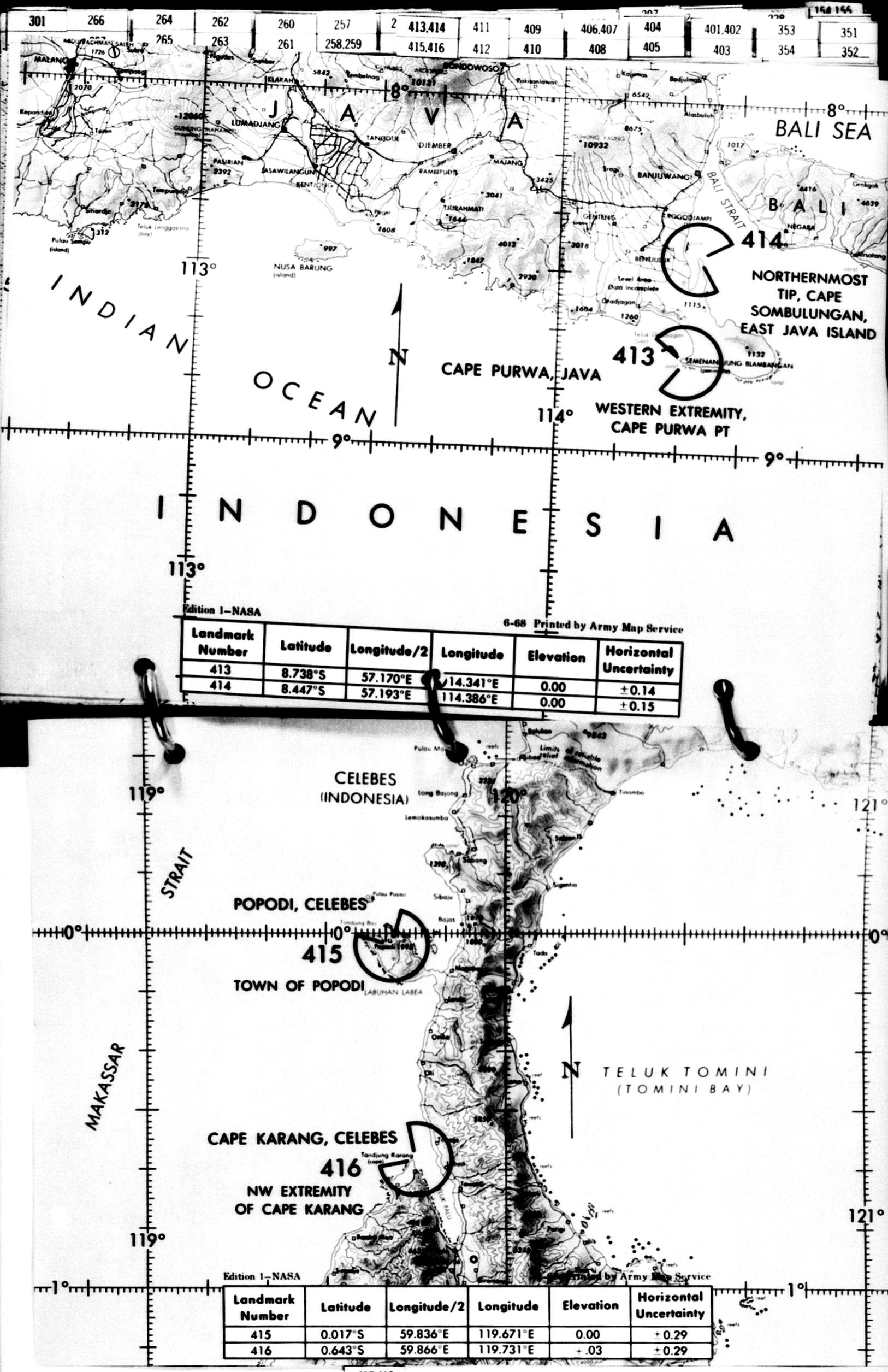




Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
412	7.038°N	58.370°E	116.741°E	0.00	±0.22

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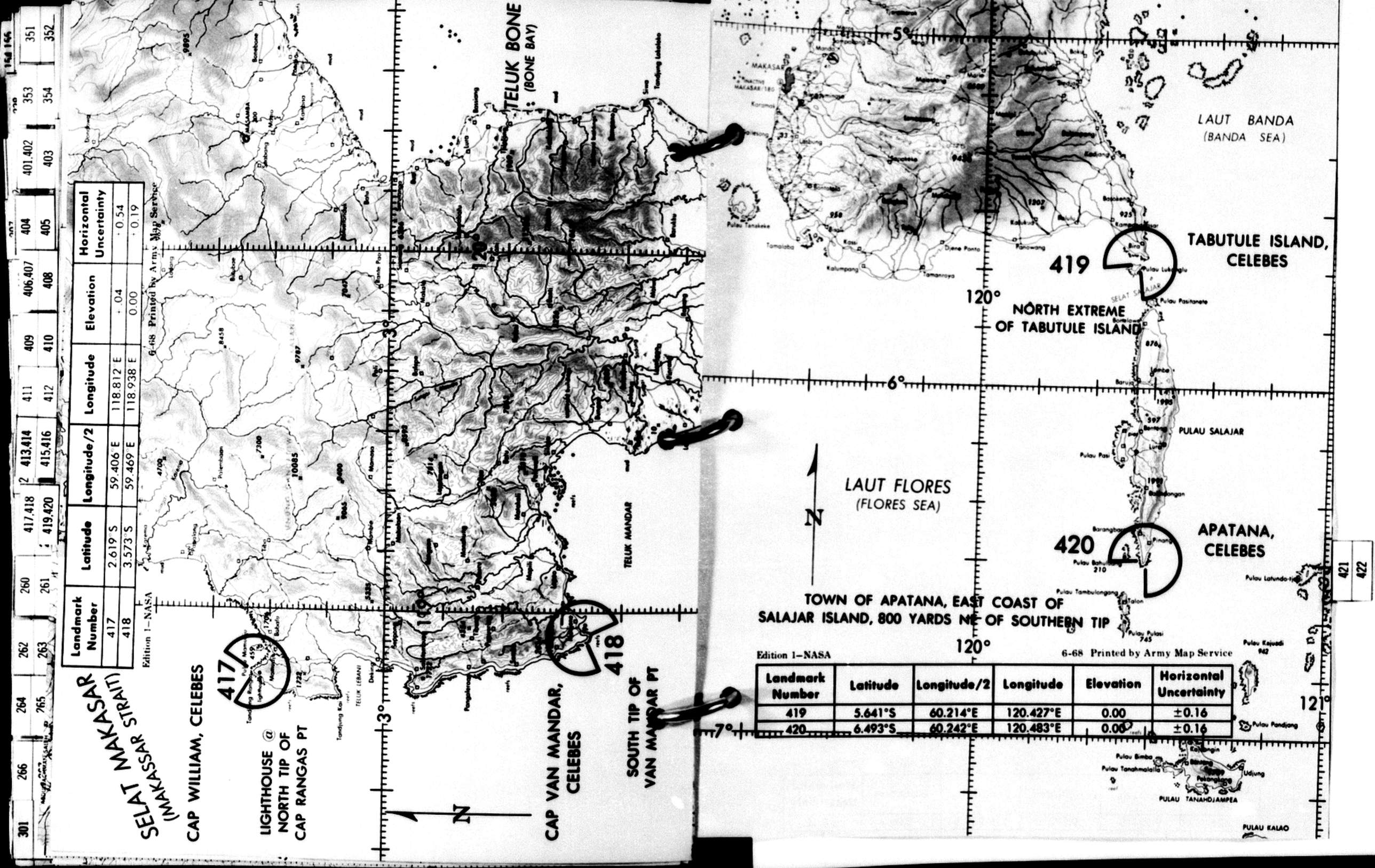
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
415	0.017°S	59.836°E	119.671°E	0.00	±0.29
416	0.643°S	59.866°E	119.731°E	+.03	±0.29



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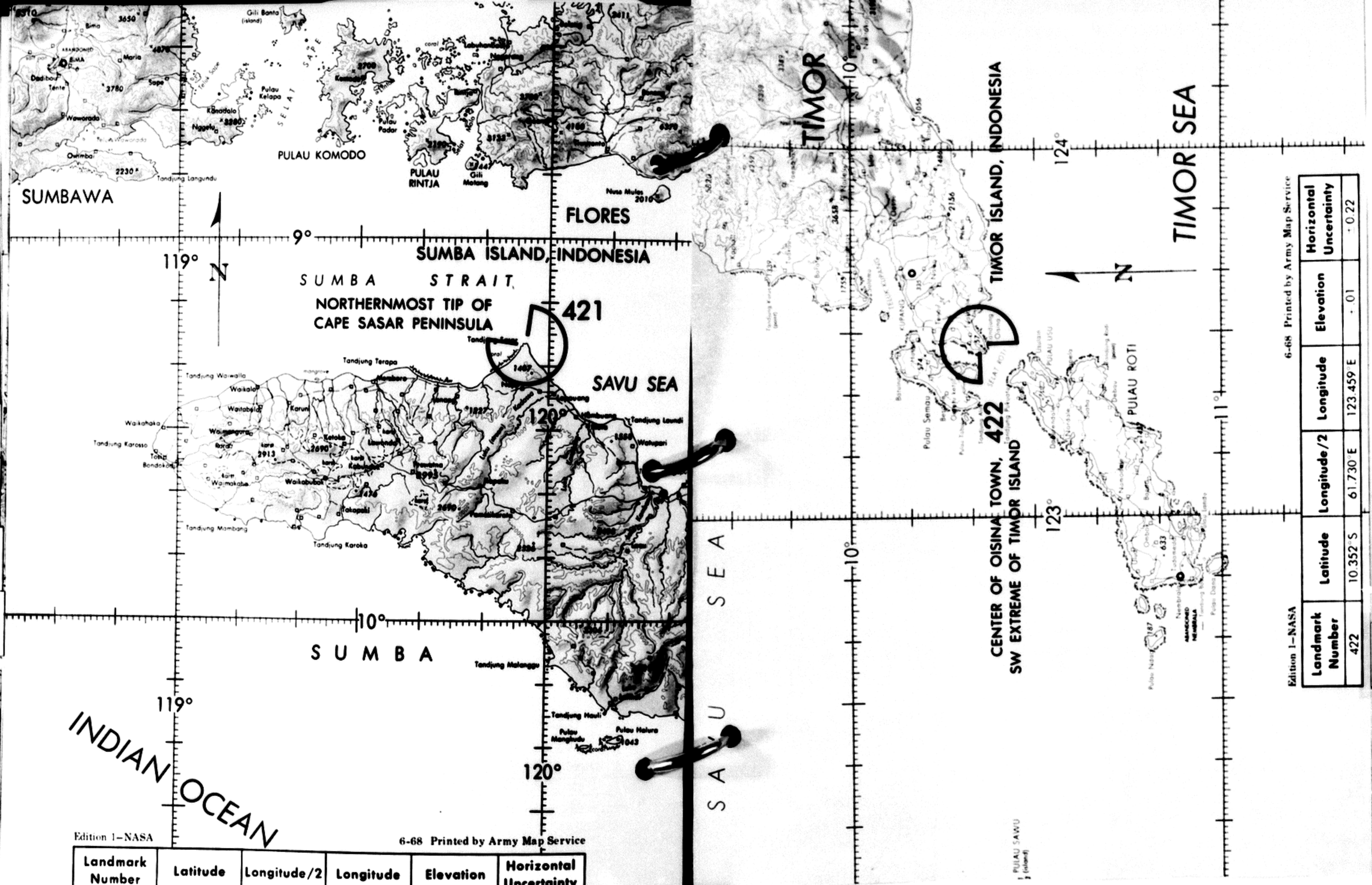
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
417	2.619°S	59.406°E	118.812°E	-.04	±0.54
418	3.573°S	59.469°E	118.938°E	0.00	±0.19
419	5.641°S	60.214°E	120.427°E	0.00	±0.16
420	6.493°S	60.242°E	120.483°E	0.00	±0.16



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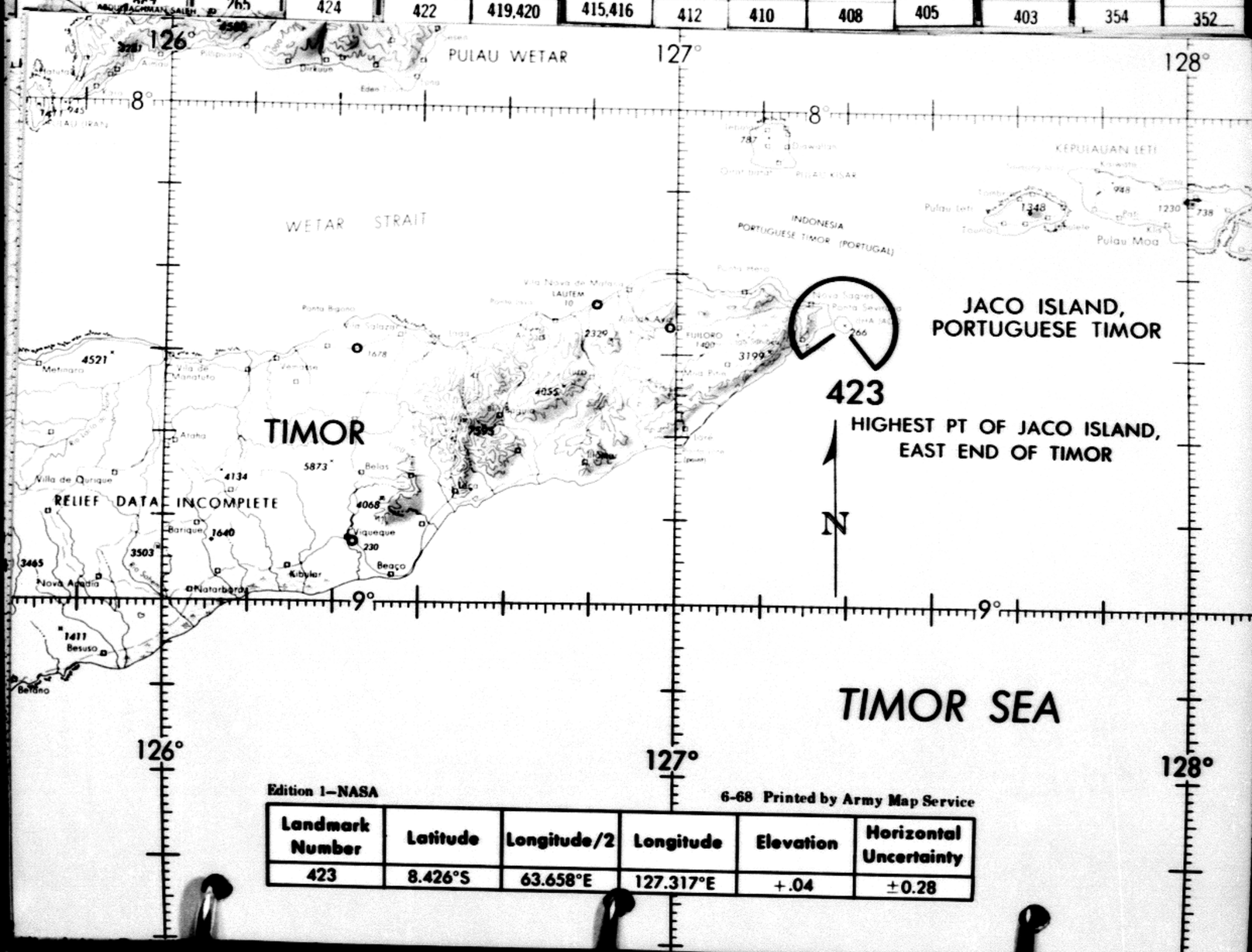
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
422	10.352°S	61.730°E	123.459°E	.01	.0.22



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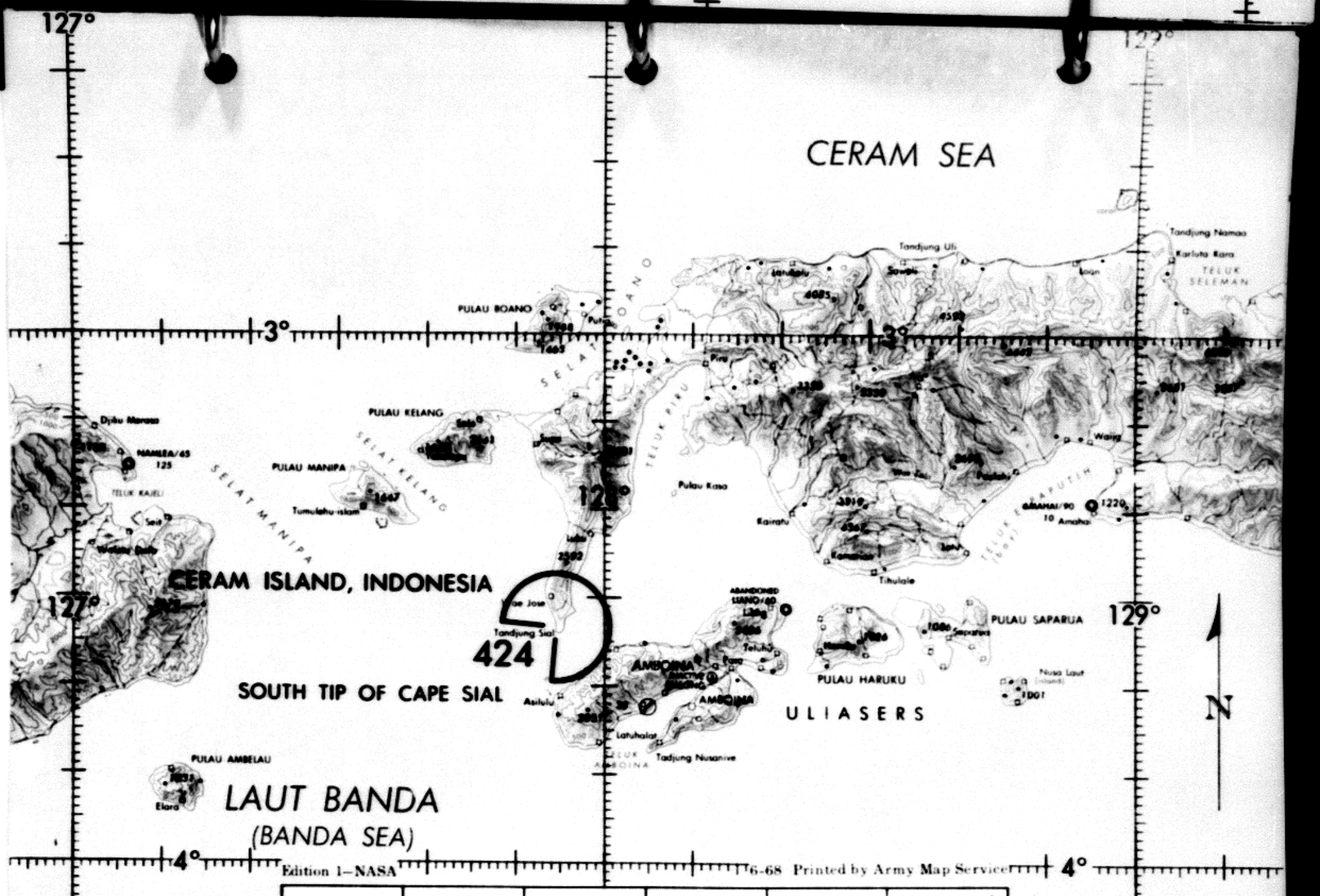
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
423	8.426°S	63.658°E	127.317°E	+.04	±0.28



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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

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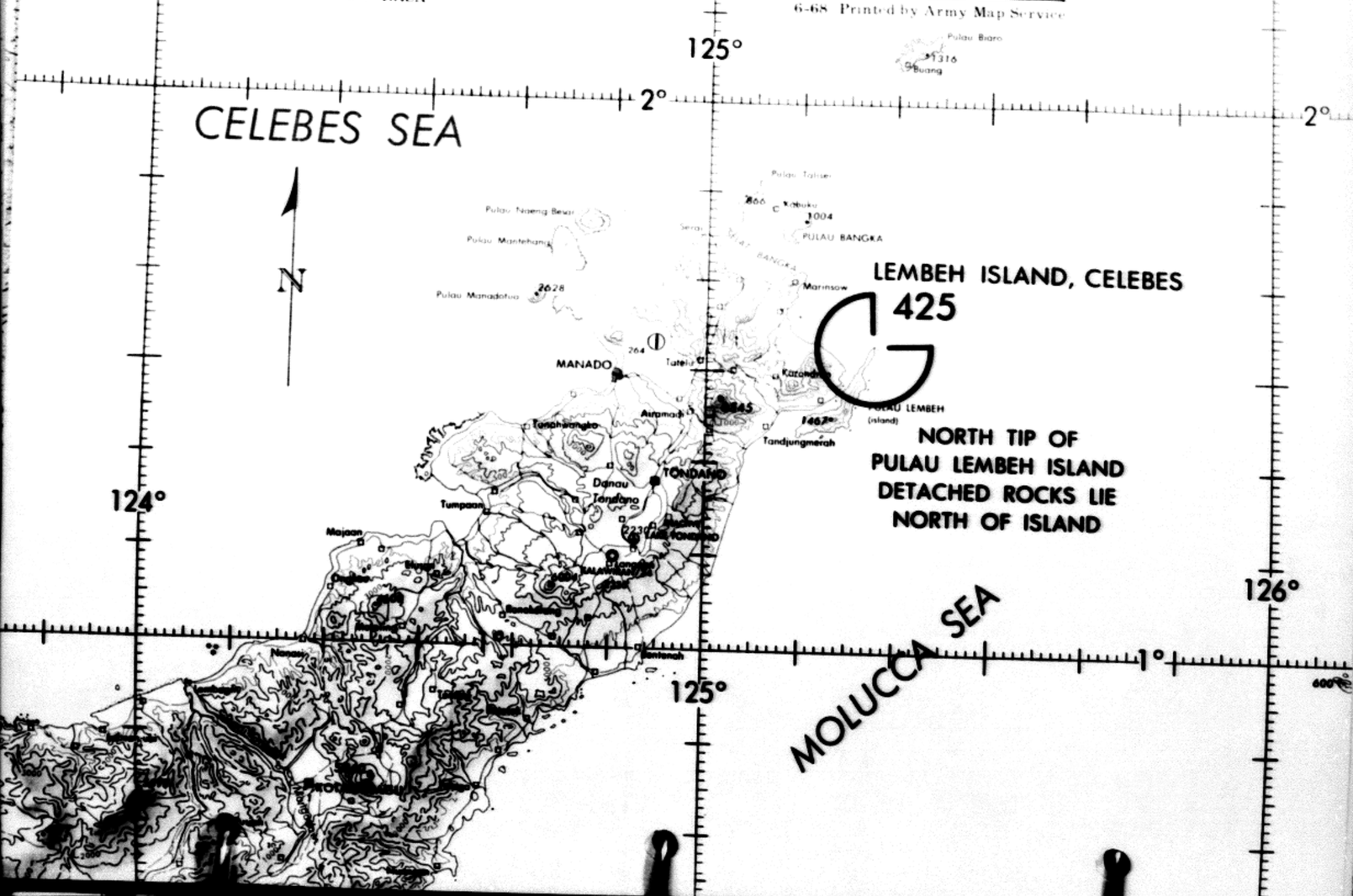

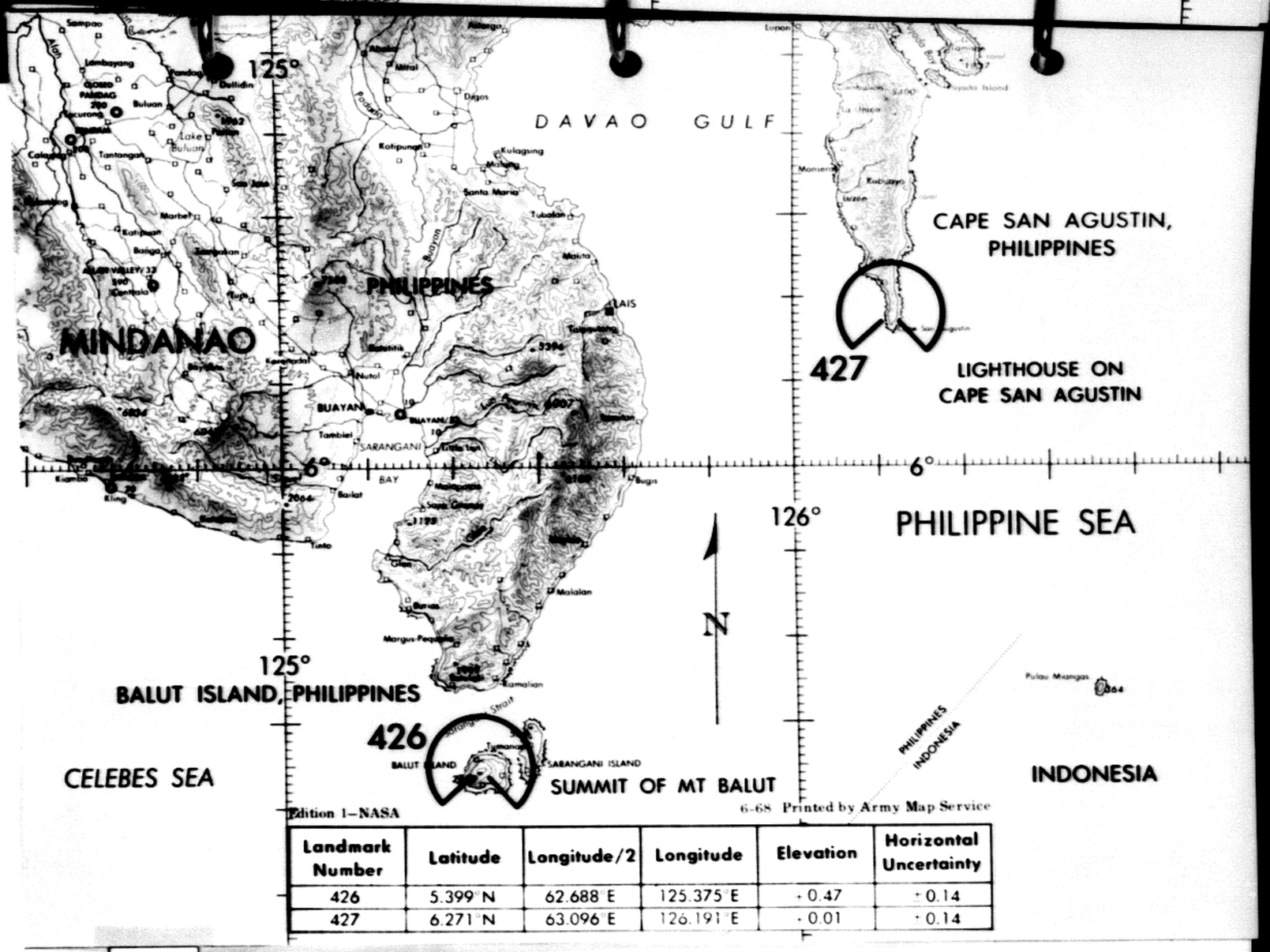

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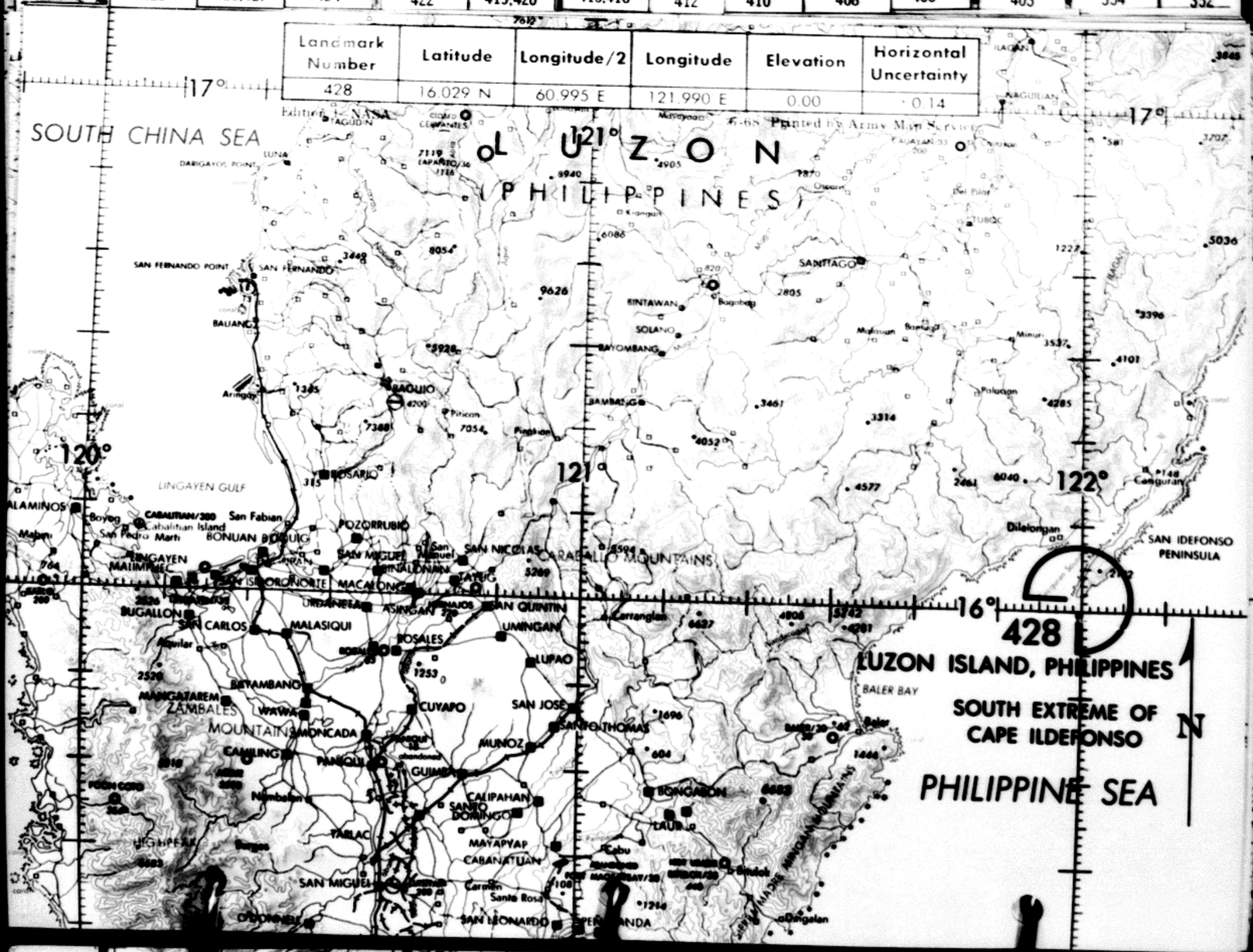
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
426	5.399 N	62.688 E	125.375 E	-0.47	±0.14
427	6.271 N	63.096 E	126.191 E	-0.01	±0.14

301	428	425	423	421	417.418	413.414	411	409	406.407	404	401.402	353	351
	429	426.427	424	422	419.420	415.416	412	410	408	405	403	354	352

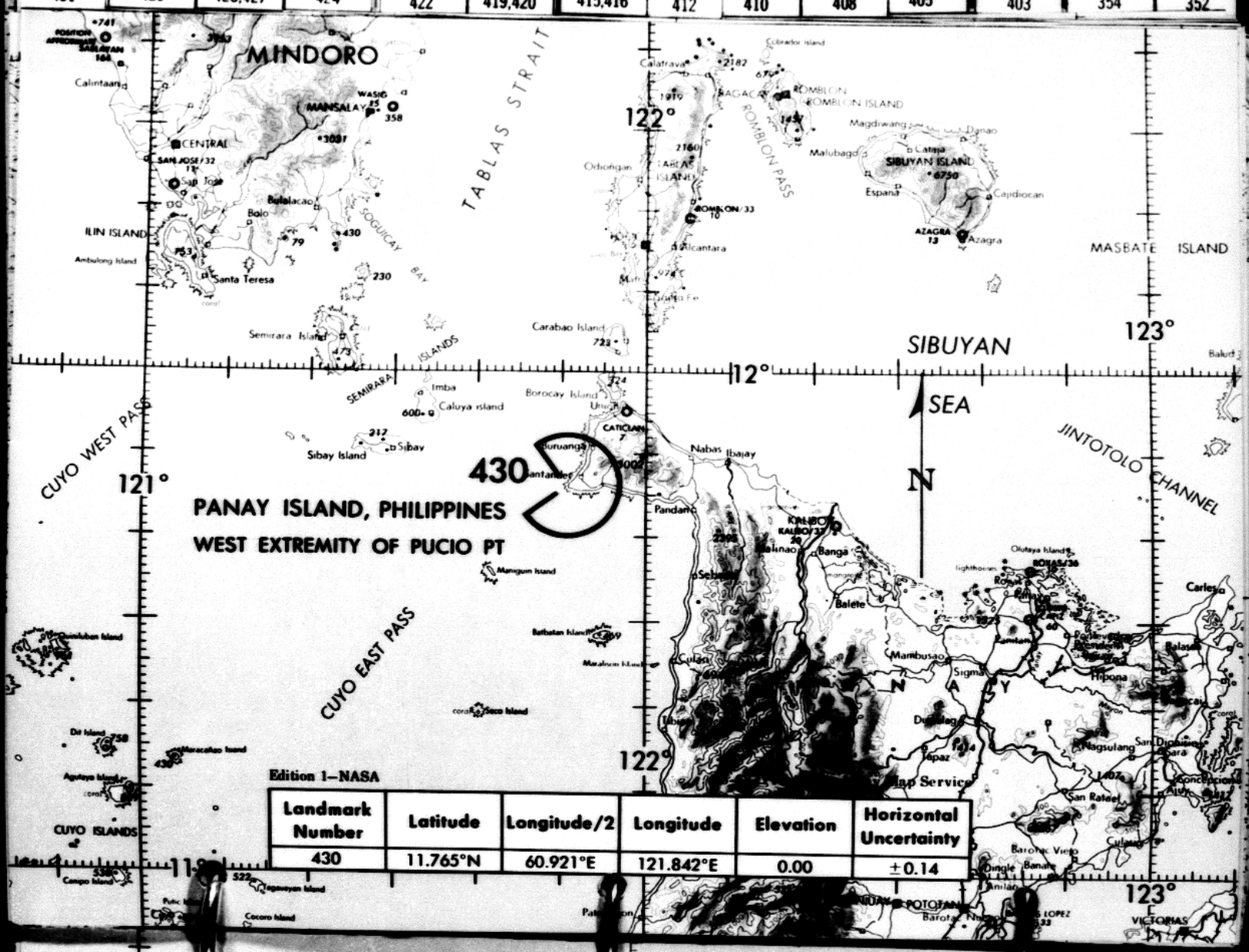
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
428	16.029 N	60.995 E	121.990 E	0.00	±0.14



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

430

431



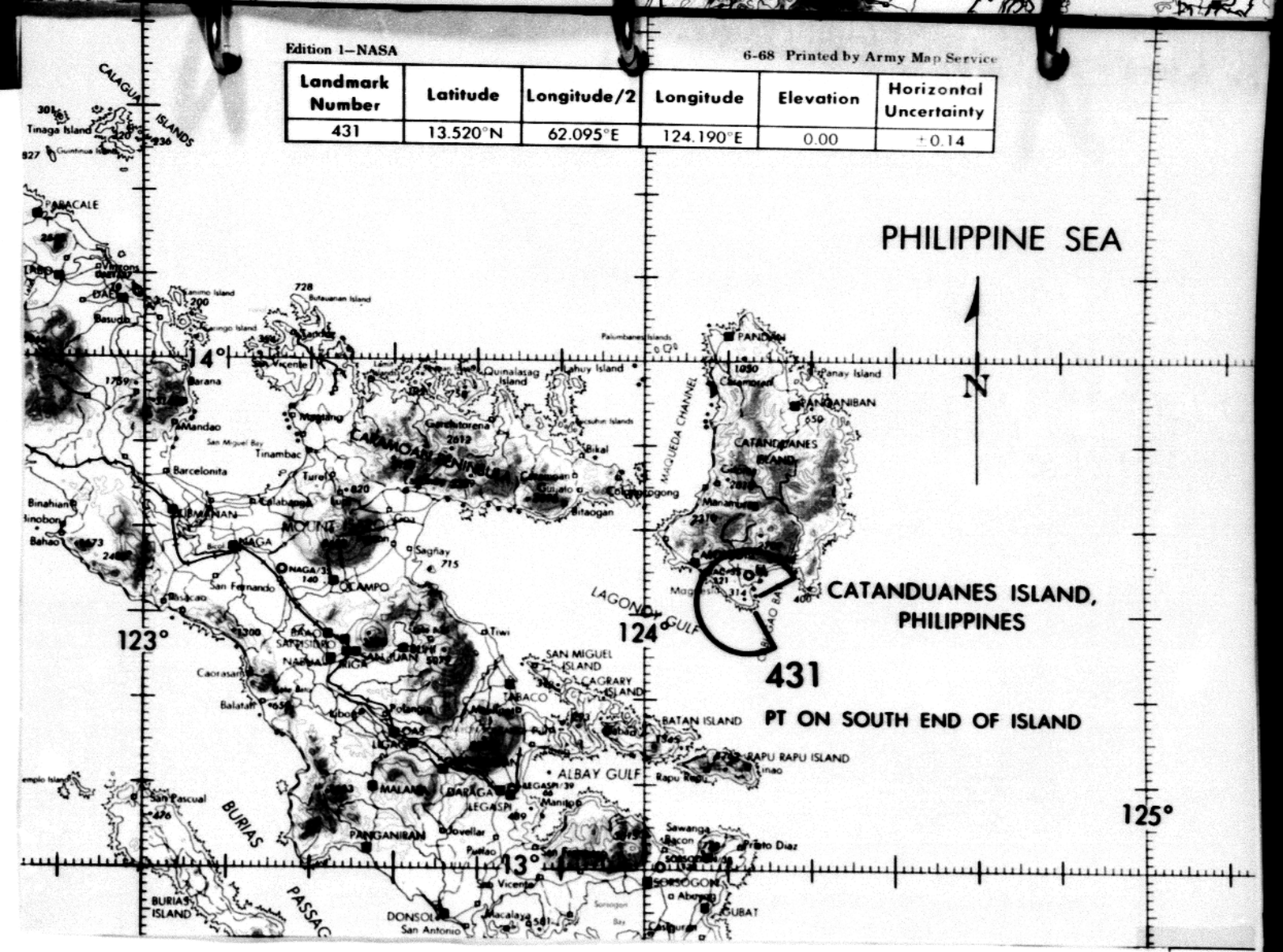
430

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

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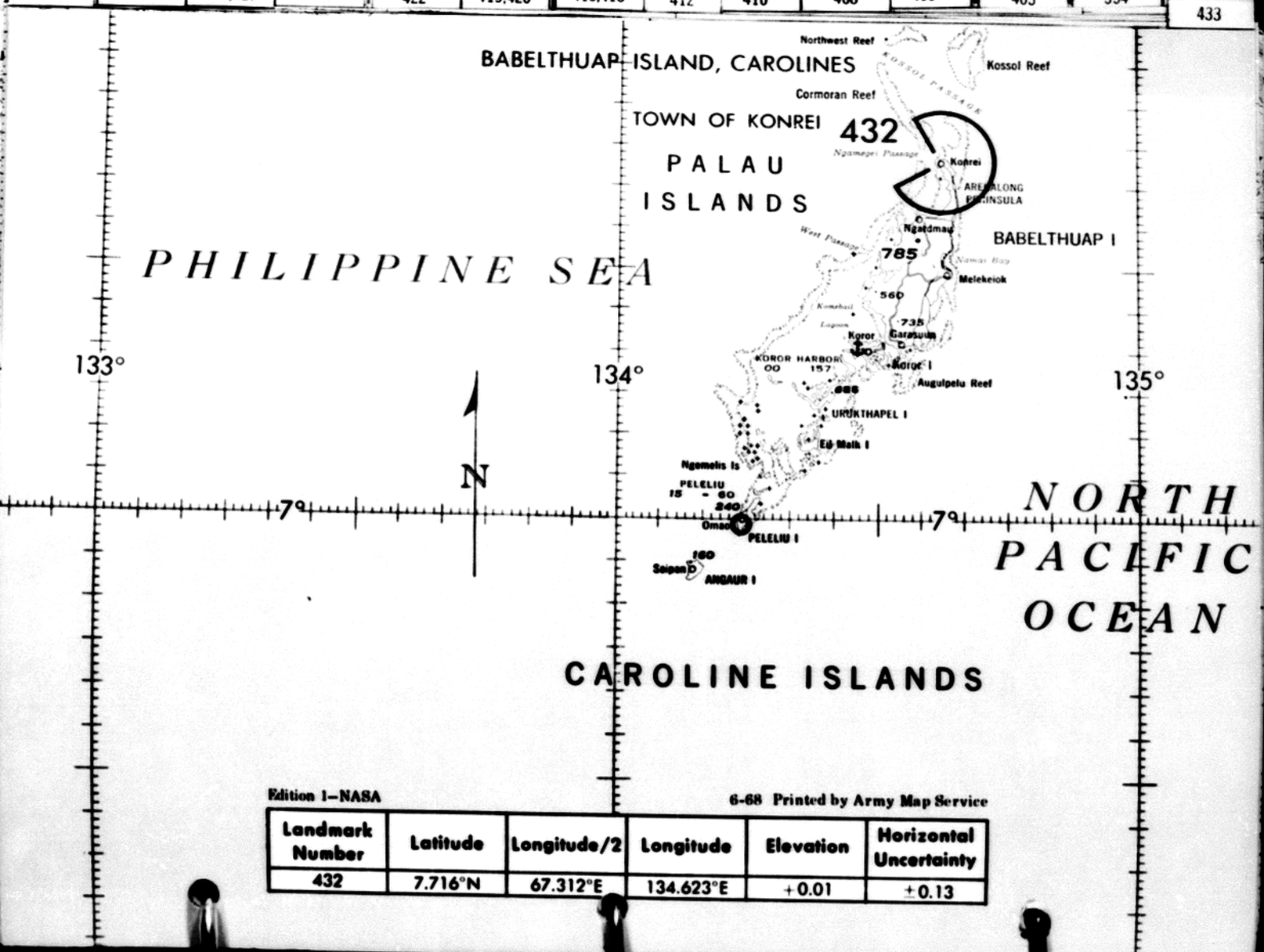
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
431	13.520°N	62.095°E	124.190°E	0.00	±0.14

CATANDUANES ISLAND, PHILIPPINES

431

PT ON SOUTH END OF ISLAND



Edition 1—NASA

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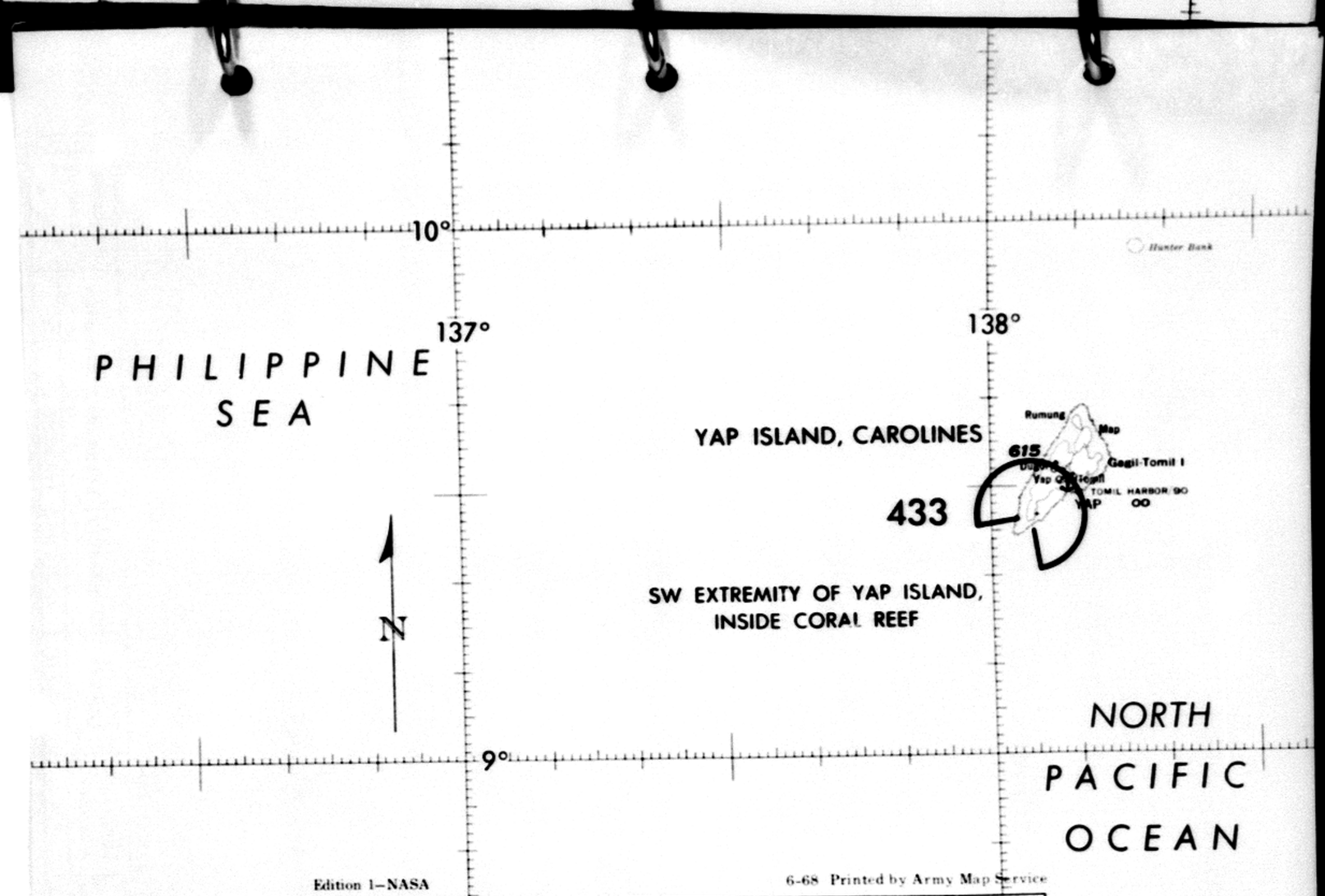
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
432	7.716°N	67.312°E	134.623°E	+0.01	±0.13



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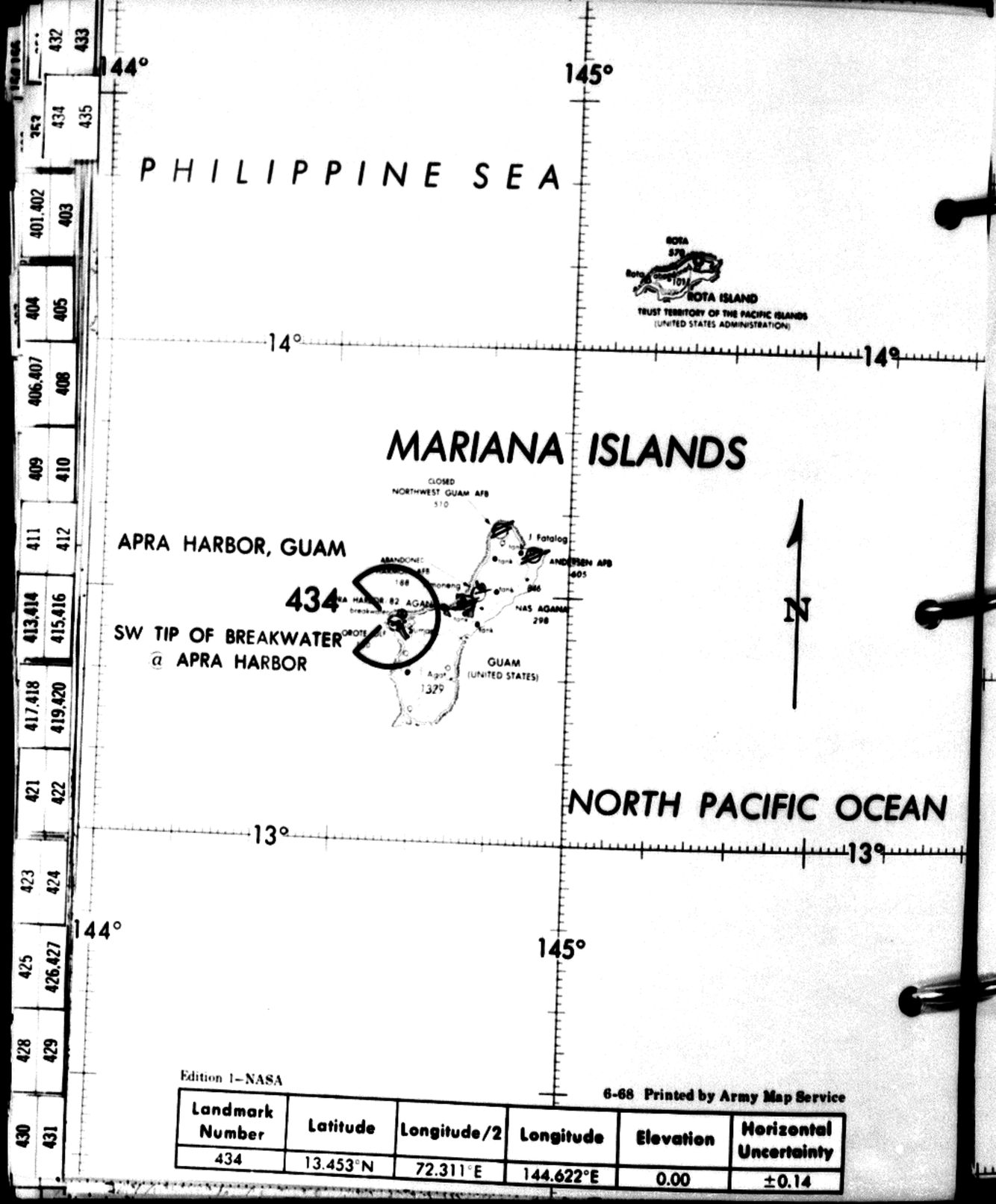
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
433	9.440°N	69.026°E	138.052°E	0.00	±0.13



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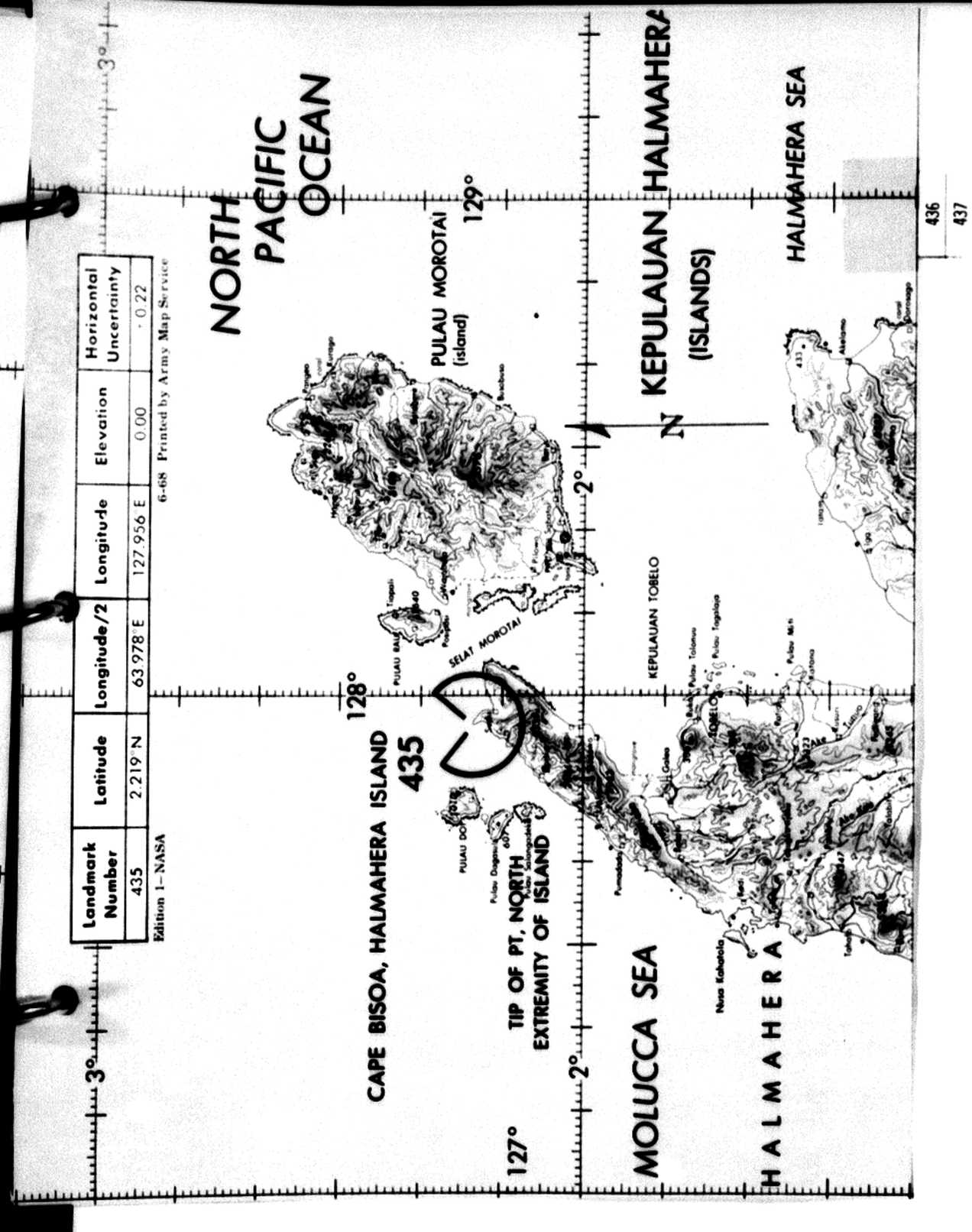
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
434	13.453°N	72.311°E	144.622°E	0.00	±0.14



Edition 1–NASA

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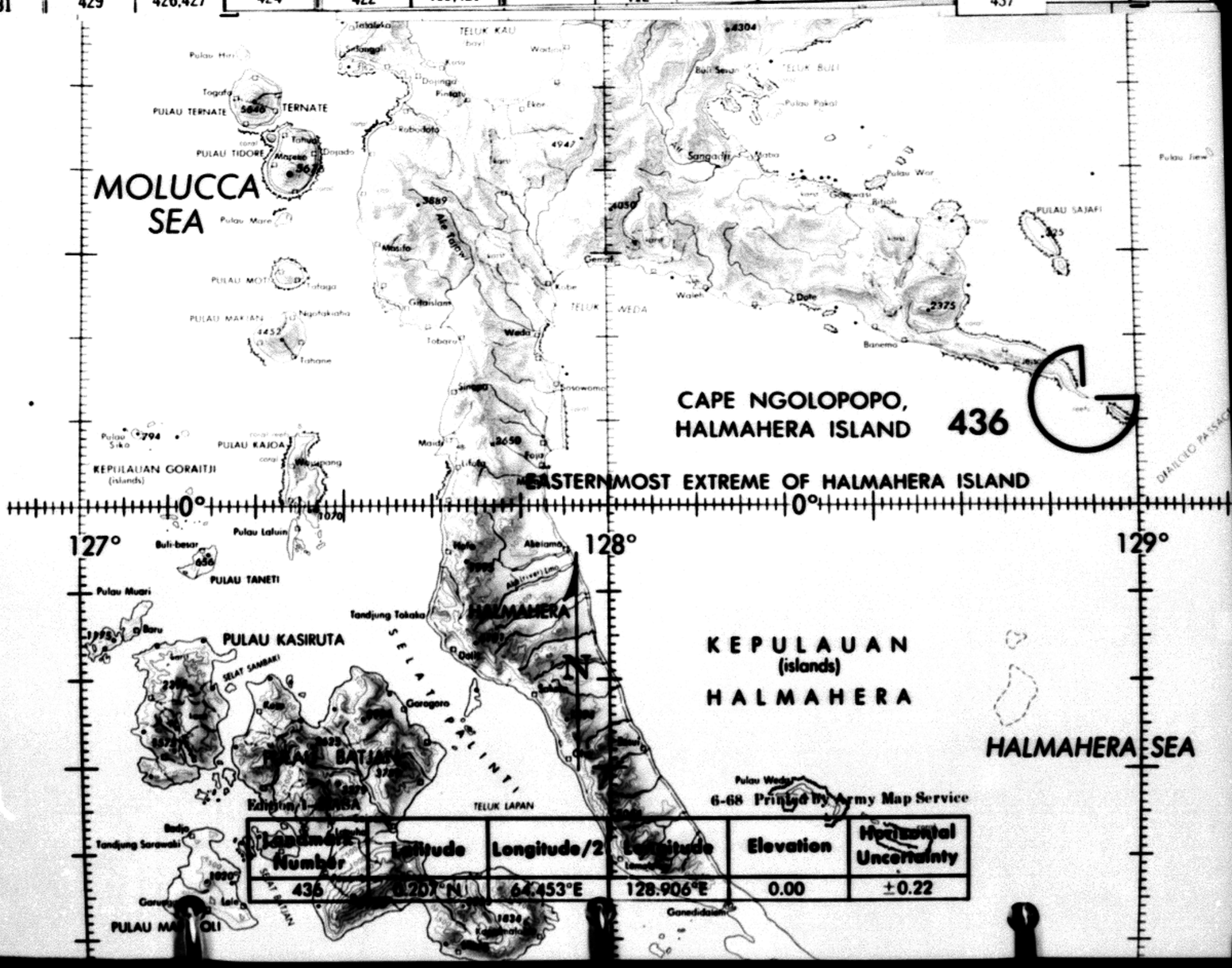
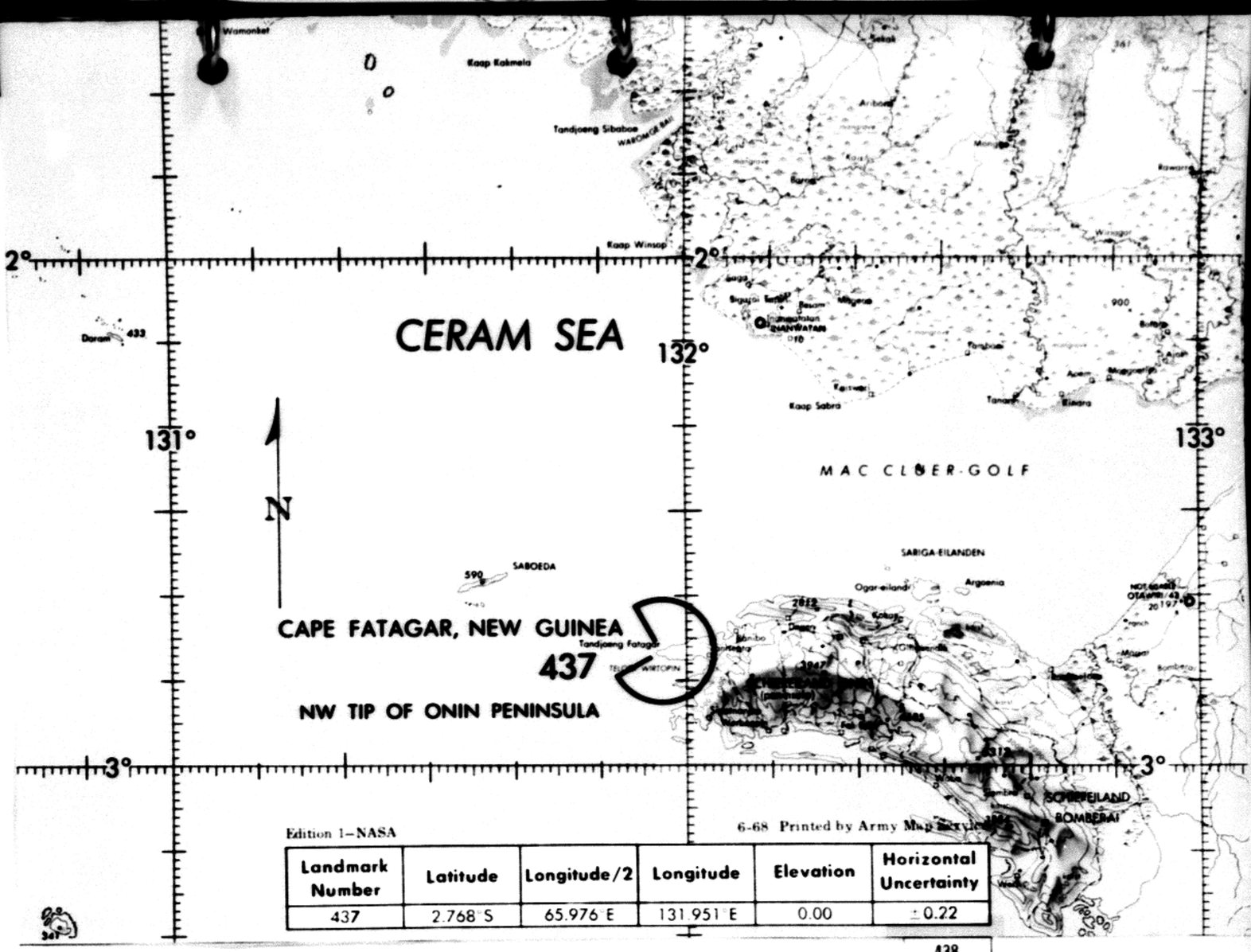
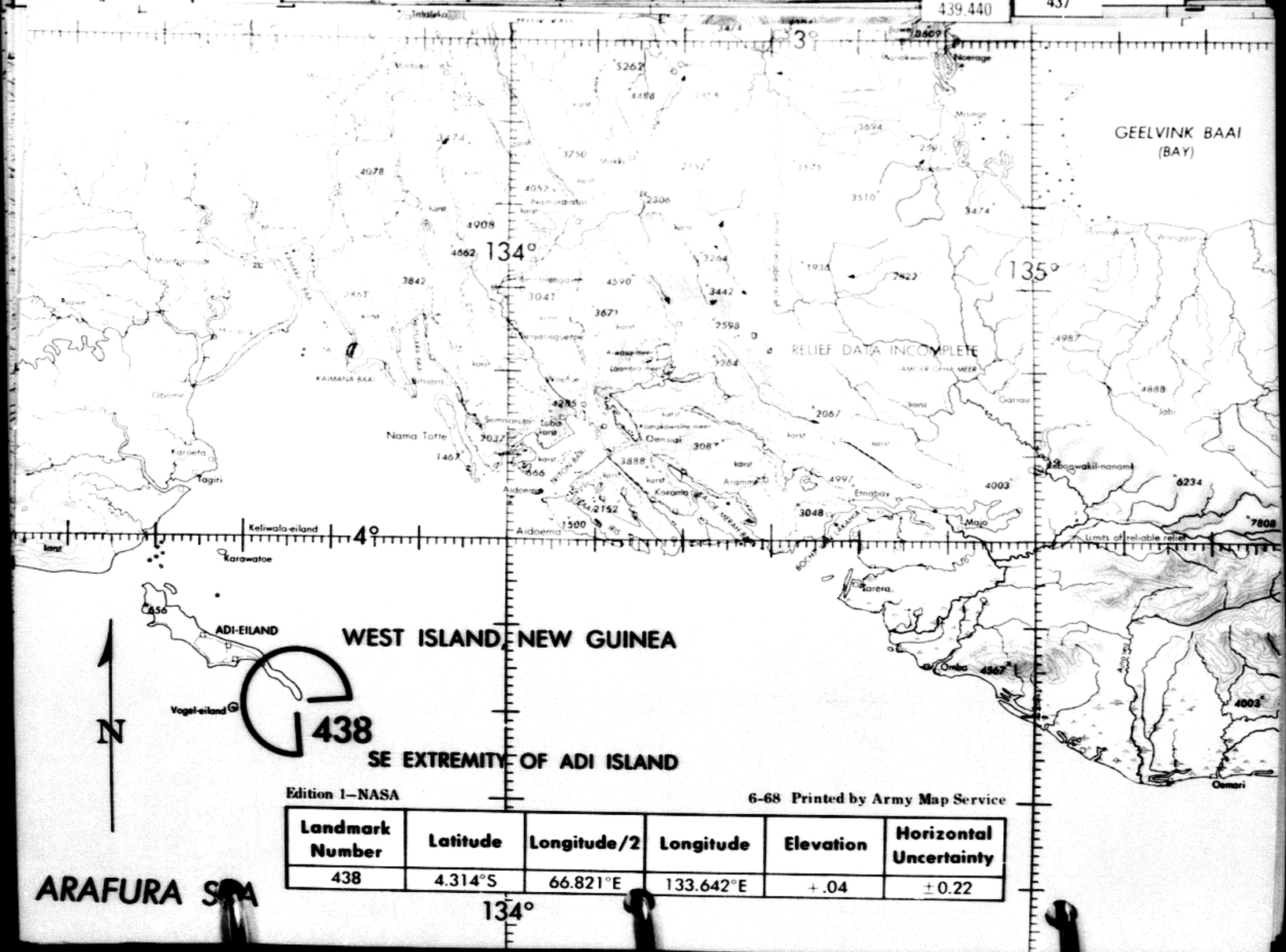
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
435	2.219°N	63.978°E	127.956 E	0.00	·0.22



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



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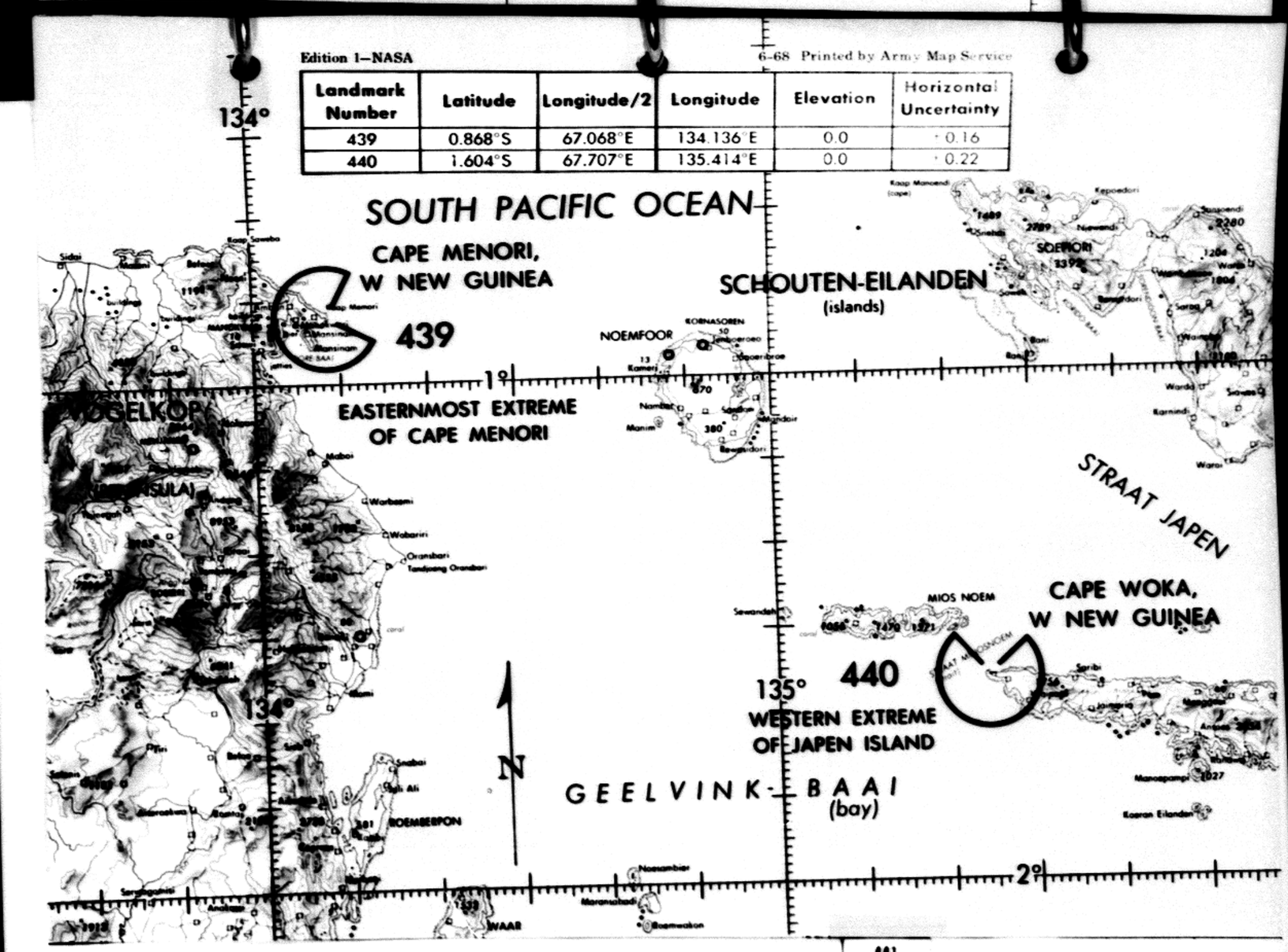
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
438	4.314°S	66.821°E	133.642°E	+.04	±0.22



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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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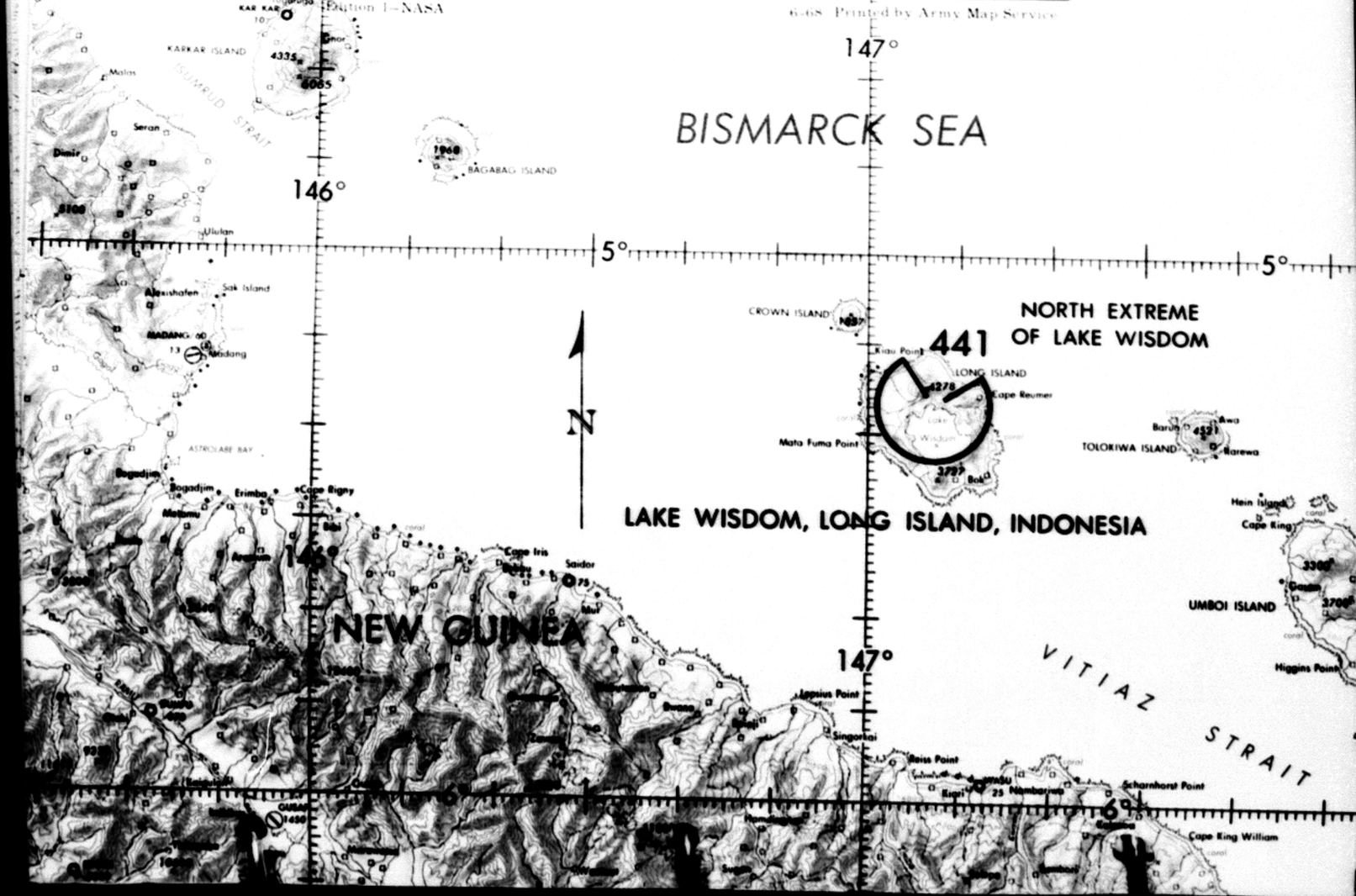

Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
442	4.999°S	75.050°E	150.100°E	+.04	±0.16

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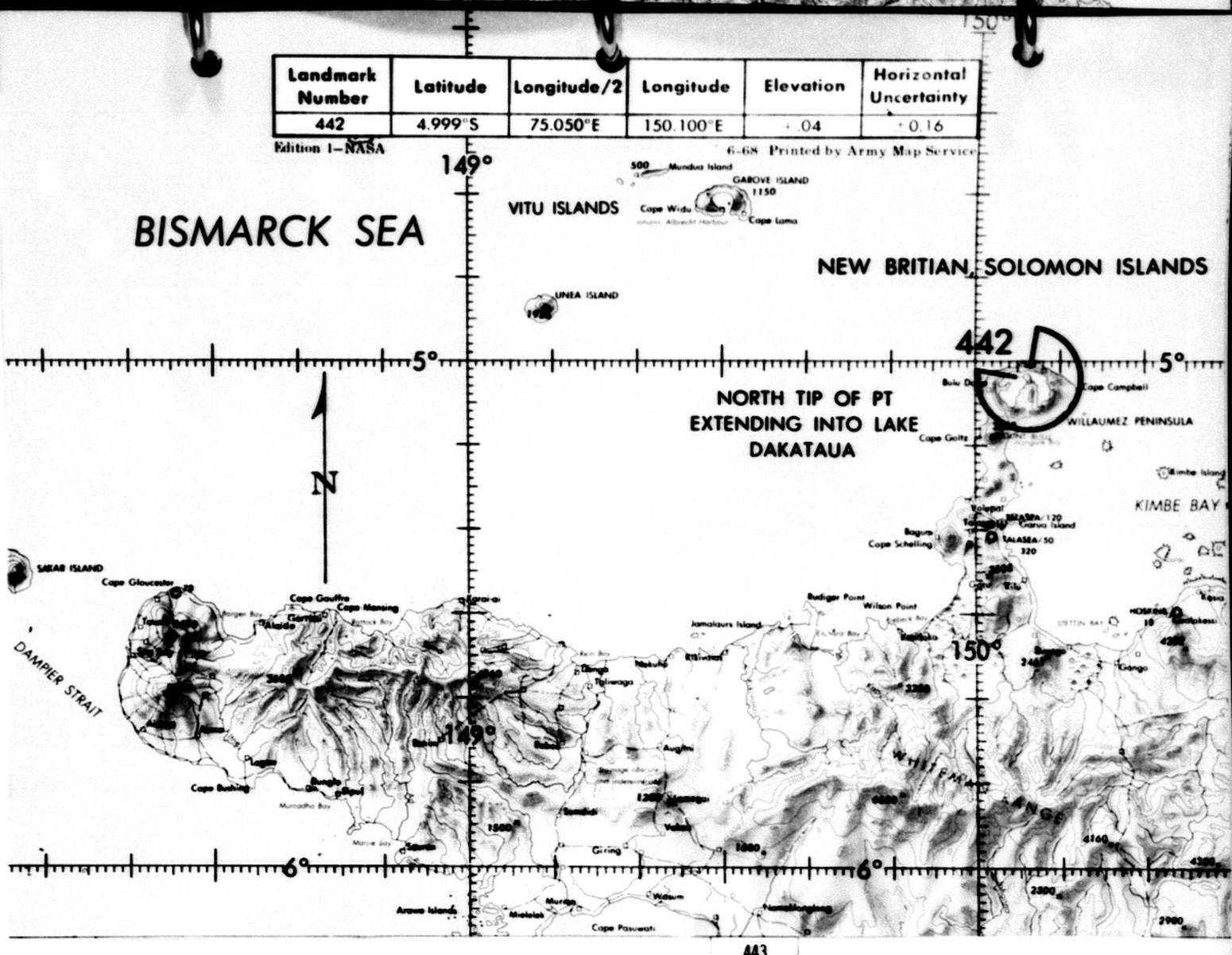
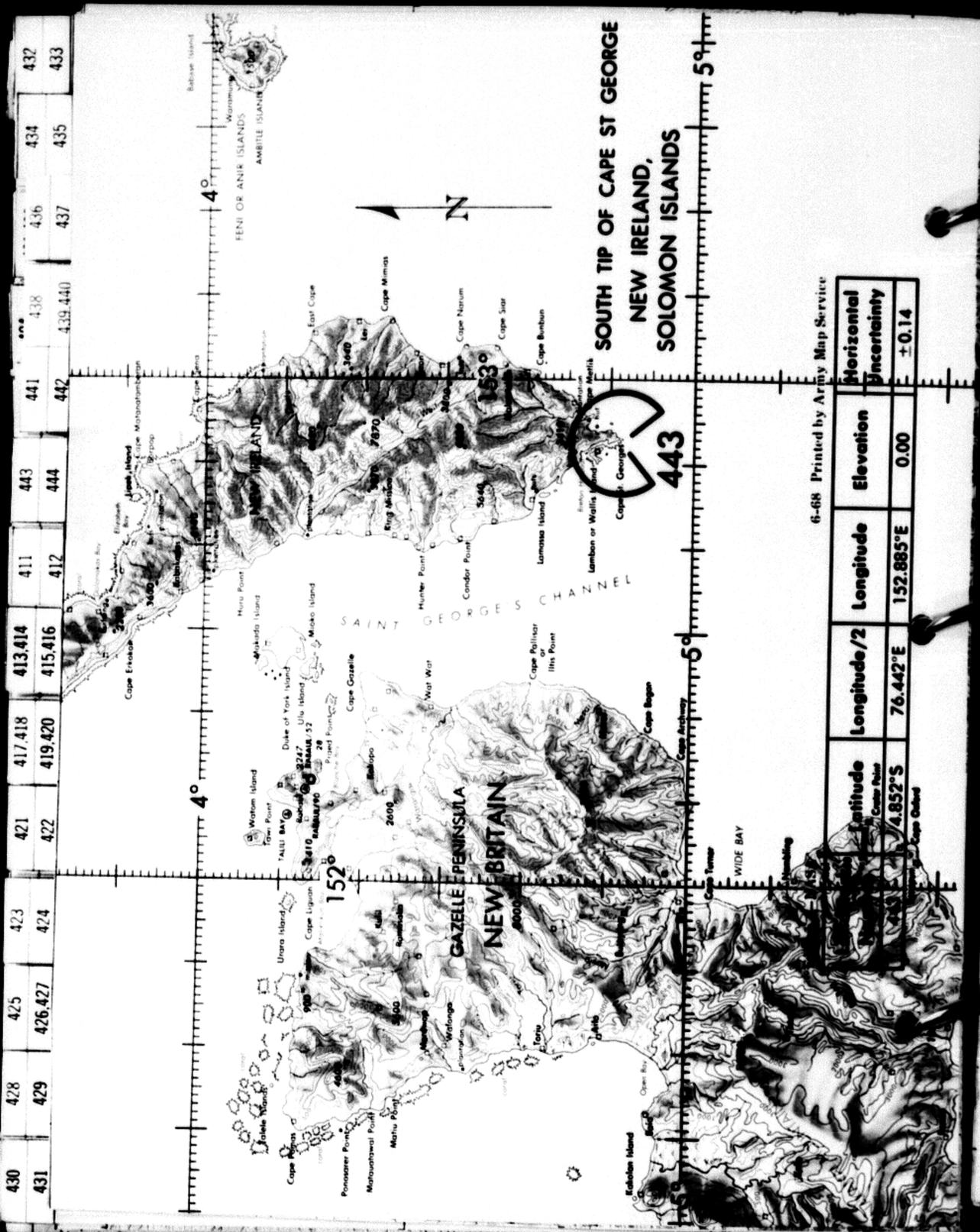
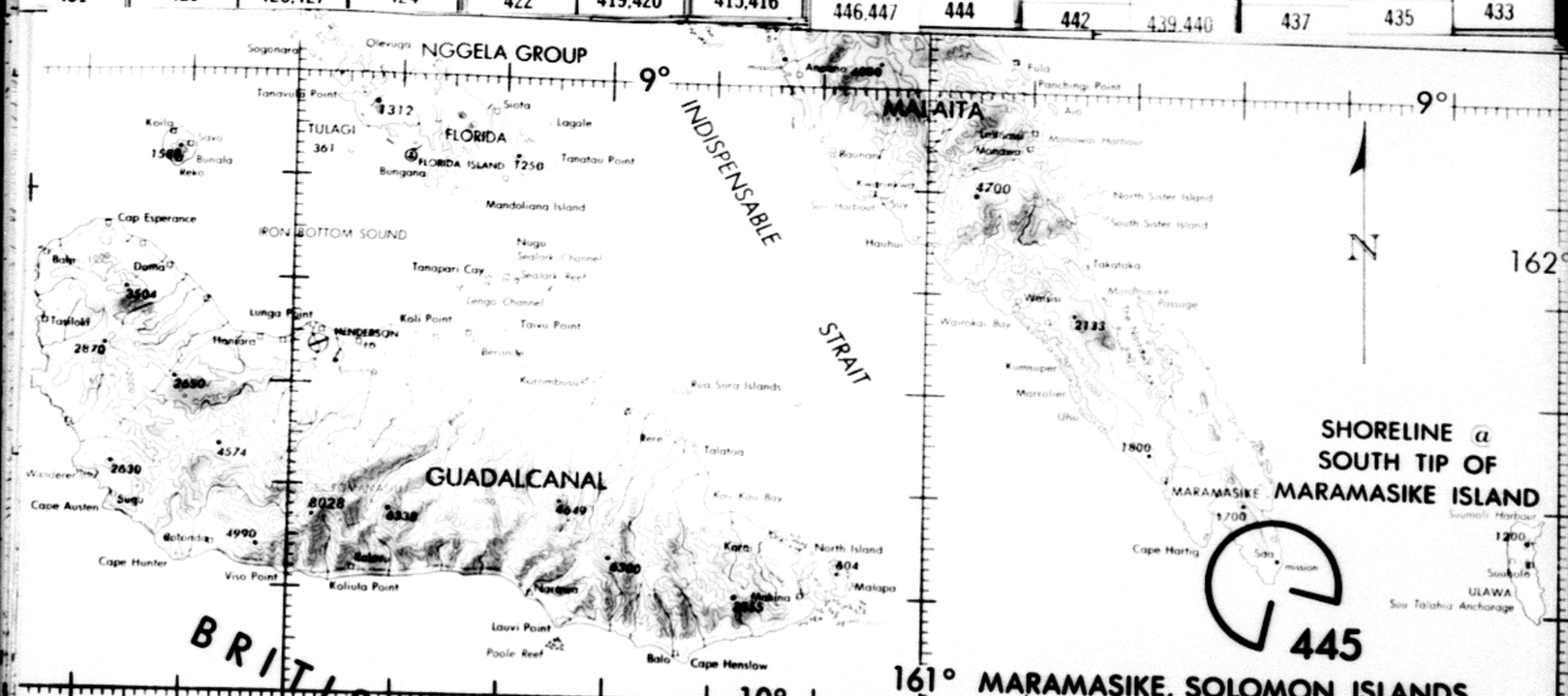


443

444


SOUTH TIP OF CAPE ST GEORGE
NEW IRELAND,
SOLOMON ISLANDS
443
NEW IRELAND
SAINT GEORGE'S CHANNEL
GAZELLE PENINSULA
NEW BRITAIN
WIDE BAY
FENI OR ANIR ISLANDS
AMBITLE ISLANDS
Cape St. George
Lambon or Wallis Island
Lamassa Island
Cape Bunbun
Cape Siar
Cape Nairum
Cape Mimos
East Cape
Cape Ereskop
Cape Gazelle
Cape Bagan
Cape Archway
Cape Tanner
Cape Pollister or Ilins Point
Duke of York Island
Watom Island
Unara Island
Kabaian Island
Cape Palas
Ponosarer Point
Matauwatawai Point
Matiu Point
Wide Bay
Open Bay
Cape Orford
Cape Ogbon
Cape Lignan
Cape Mahongahongan
Cape Mimos
Cape Nairum
Cape Siar
Cape Bunbun
Cape Archway
Cape Tanner
Cape Orford
Cape Ogbon
Cape Pollister or Ilins Point
Cape Gazelle
Cape Ereskop
Cape Lignan
Cape Palas
Ponosarer Point
Matauwatawai Point
Matiu Point
Kabaian Island
Lamassa Island
Lambon or Wallis Island
Cape St. George
Duke of York Island
Watom Island
Unara Island
Baliman Island
Warangoi
Kulu
Rabaul
Kerevat
Tarpo
Ulu Island
Mioko Island
Mokado Island
Horu Point
Hunter Point
Ring Mission
Condor Point
Warangoi
Wat Wat
Bakopo
Kerevat
Rabaul
Kulu
Tarpo
Kerevat
Warangoi
Wide Bay
Open Bay
Cape Orford
Cape Ogbon
Cape Archway
Cape Tanner
Cape Bagan
Cape Gazelle
Cape Pollister or Ilins Point
Cape Ereskop
Cape Lignan
Cape Mahongahongan
Cape Mimos
Cape Nairum
Cape Siar
Cape Bunbun
Cape St. George
Lambon or Wallis Island
Lamassa Island
Kabaian Island
Duke of York Island
Watom Island
Unara Island
Baliman Island
Warangoi
Kerevat
Rabaul
Kulu
Tarpo
Ulu Island
Mioko Island
Mokado Island
Horu Point
Hunter Point
Ring Mission
Condor Point
Wat Wat
Bakopo
Cape Palas
Ponosarer Point
Matauwatawai Point
Matiu Point


NGGELA GROUP
9°
TULAGI
FLORIDA
FLORIDA ISLAND
INDISPENSABLE
STRAIT
MALAITA
IRON BOTTOM SOUND
Cape Esperance
Lunga Point
HENDERSON
Koli Point
Tanaparu Cay
Tassafaronga
Cape Hunter
Cape Austen
Viso Point
Koliula Point
GUADALCANAL
Lauvi Point
Poole Reef
Balo
Cape Henslow
North Island
Malaita
Kira Kira Bay
Talasea
Rua Sisra Islands
Mandoliana Island
Tanatau Point
Taivu Point
Kuromburu
Bungana
Lagale
Siota
Bunala
Reko
Korio
Dumo
Taylloff
Hanara
Wanderer Bay
Swu
Belbridge
Kalu
Nuvaron
Makira
Kara
Malapa
Cape Hartig
MARAMASIKE
ULAWA
Sau Talakia Anchorage
Sinalo
Soumoli Harbour
Kumusuper
Marcolier
Uhu
Takataka
Wanaka Bay
Wersis
Maotaoke Passage
North Sister Island
South Sister Island
Panchingi Point
Fola
Aio
Mondana
Mandana Harbour
Raunaro
Hauhu
Suu Harbour
Suu
Sisiri
Sisiri Harbour
Ambu
Ambu Harbour
Ngasi
Ngasi Harbour
Ngasi Channel
Lengo Channel
Seahorse Channel
Seahorse Reef
Berande
Bere
Tulagi
Siota
Lagale
Tanatau Point
Bungana
Mandoliana Island
Nugu
Kali Point
Taivu Point
Tassafaronga
Cape Hunter
Viso Point
Koliula Point
Lauvi Point
Poole Reef
Balo
Cape Henslow
North Island
Malapa
Makira
Kara
Malaita
Cape Hartig
MARAMASIKE
ULAWA
Sau Talakia Anchorage
Sinalo
Soumoli Harbour
Kumusuper
Marcolier
Uhu
Takataka
Wanaka Bay
Wersis
Maotaoke Passage
North Sister Island
South Sister Island
Panchingi Point
Fola
Aio
Mondana
Mandana Harbour
Raunaro
Hauhu
Suu Harbour
Suu
Sisiri
Sisiri Harbour
Ambu
Ngasi
Ngasi Harbour
Ngasi Channel
Lengo Channel
Seahorse Channel
Seahorse Reef
Berande
Bere
Tulagi
Siota
Lagale
Tanatau Point
Bungana
Mandoliana Island
Nugu
Kali Point
Taivu Point
Tassafaronga
Cape Hunter
Cape Austen
Viso Point
Koliula Point
GUADALCANAL

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

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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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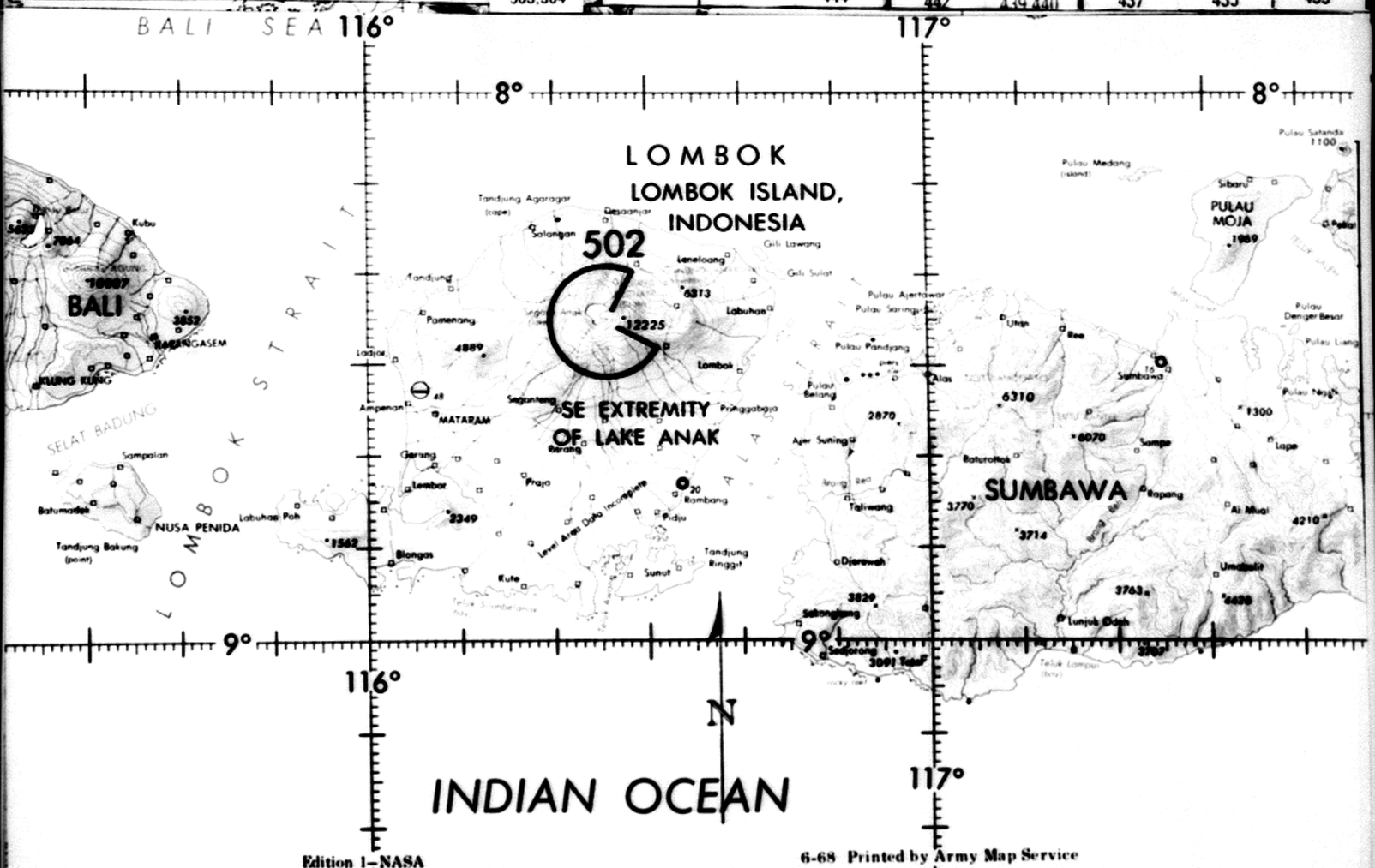
INDIAN OCEAN

GANTHEAUME PT,
AUSTRALIA

501

NW TIP OF GANTHEAUME PT

RELIEF DATA INCOMPLETE



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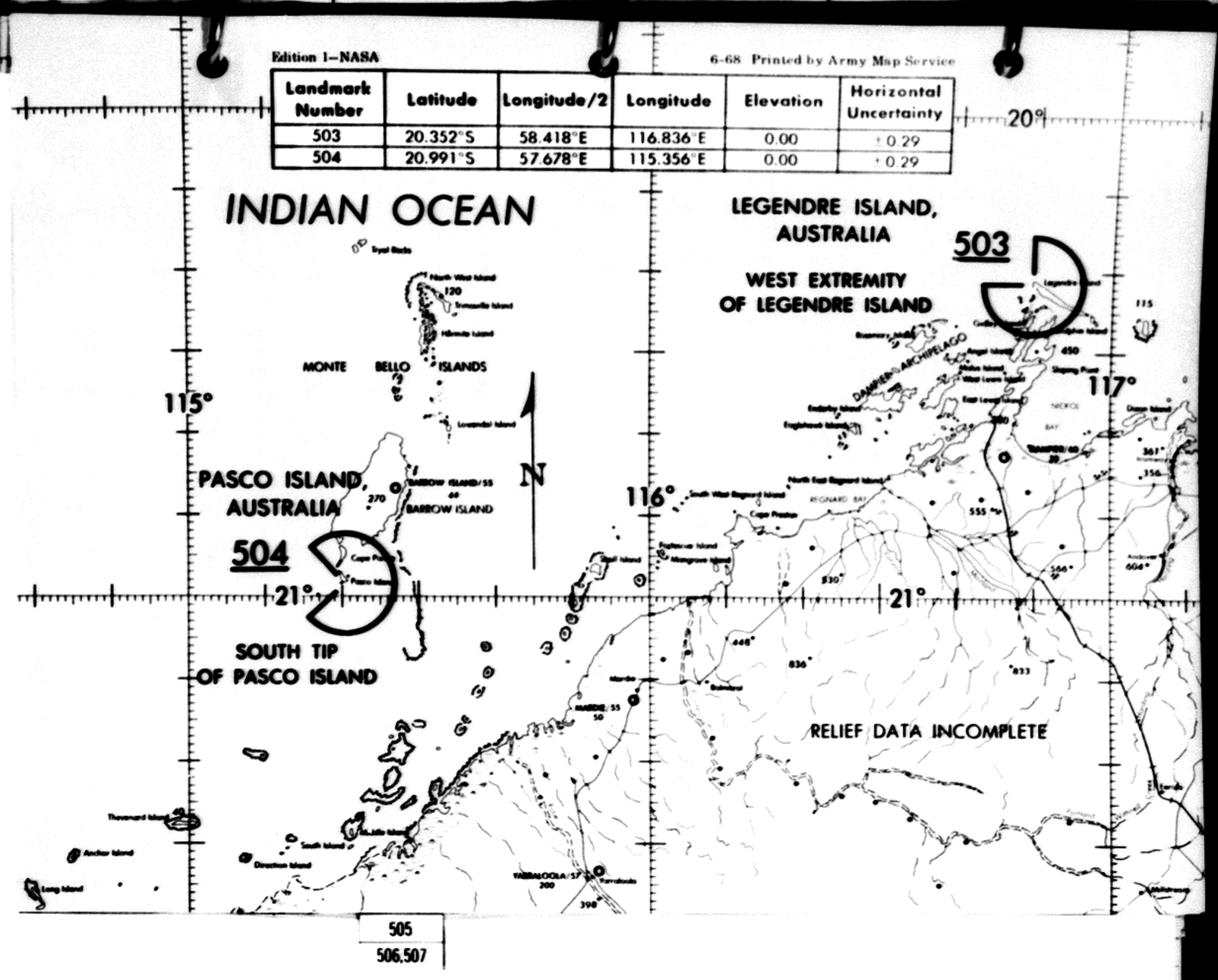
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
502	8.416°S	58.218°E	116.437°E	+1.08	±0.30



Edition 1—NASA

6-68 Printed by Army Map Service

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

Edition 1–NASA

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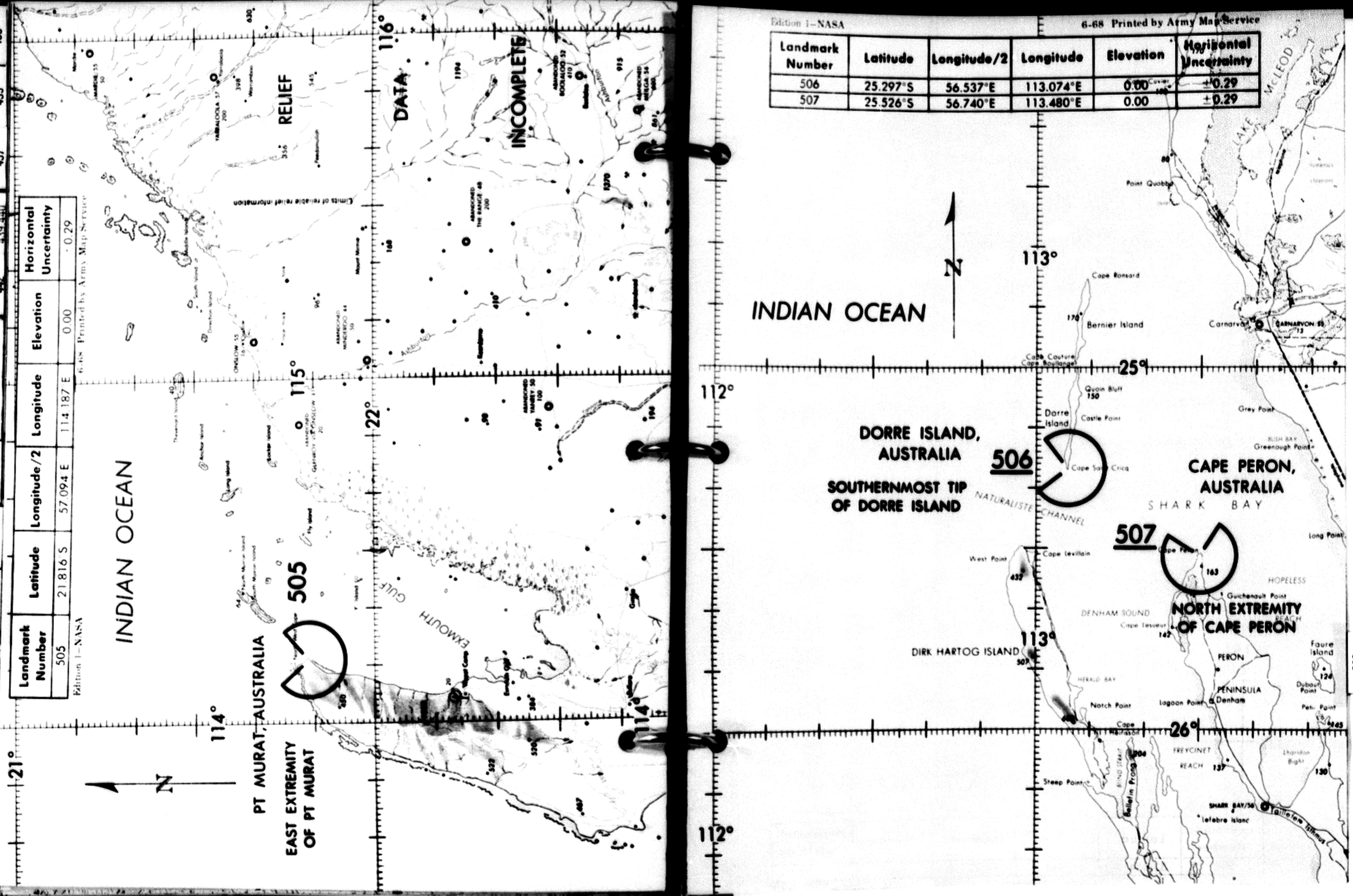
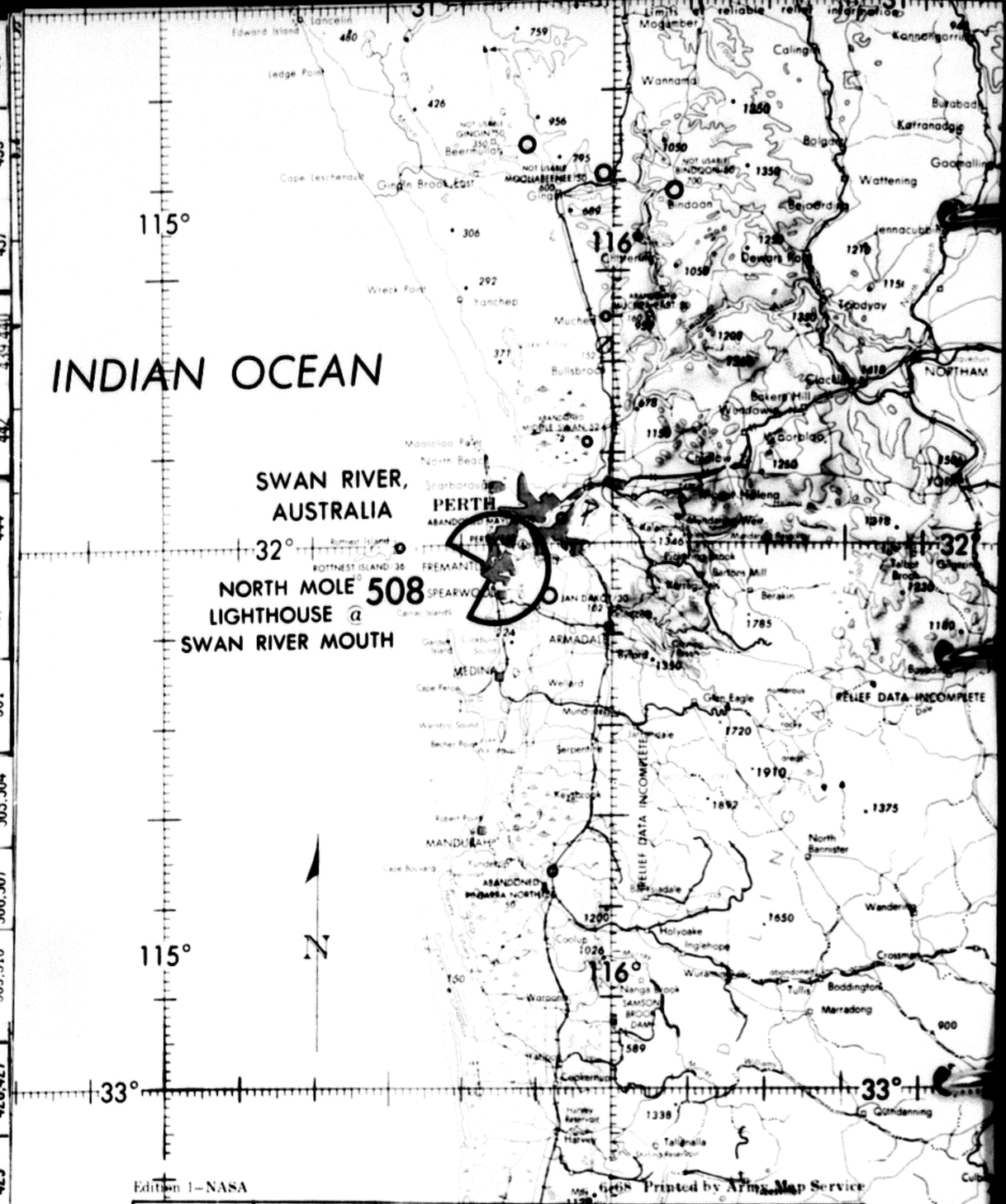
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
506	25.297°S	56.537°E	113.074°E	0.00	±0.29
507	25.526°S	56.740°E	113.480°E	0.00	±0.29

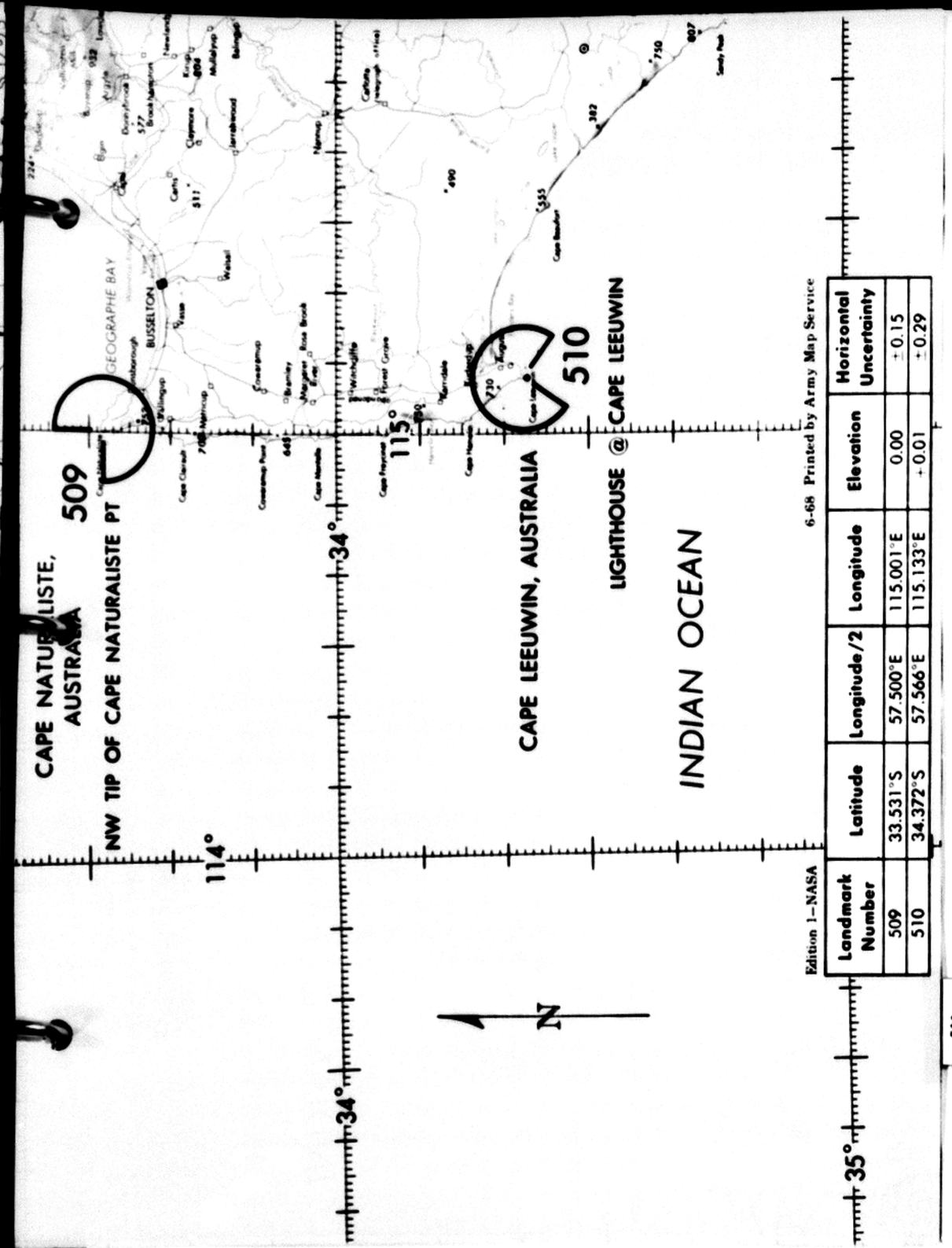


Edition 1–NASA

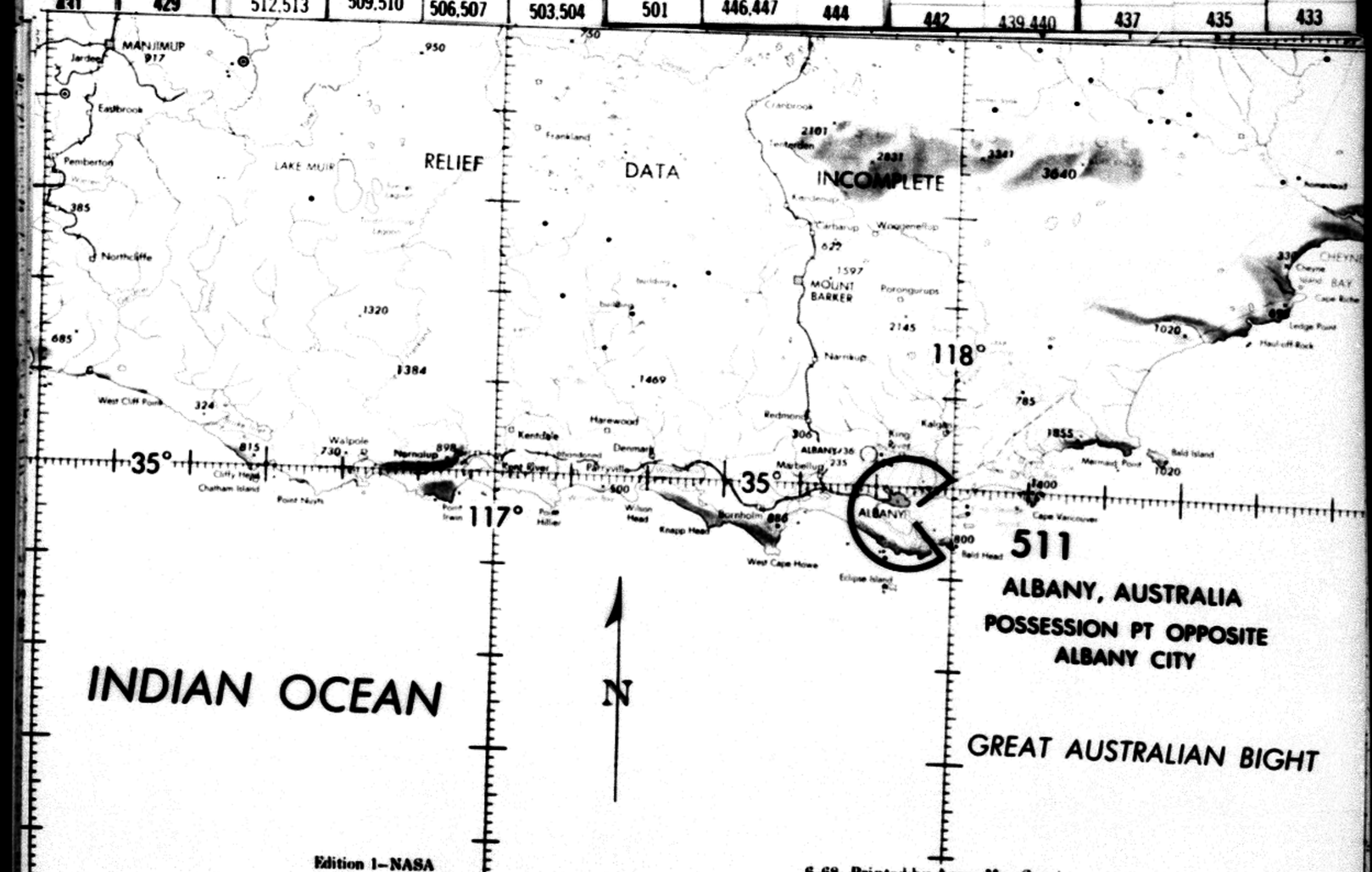
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
505	21.816°S	57.094°E	114.187°E	0.00	±0.29



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

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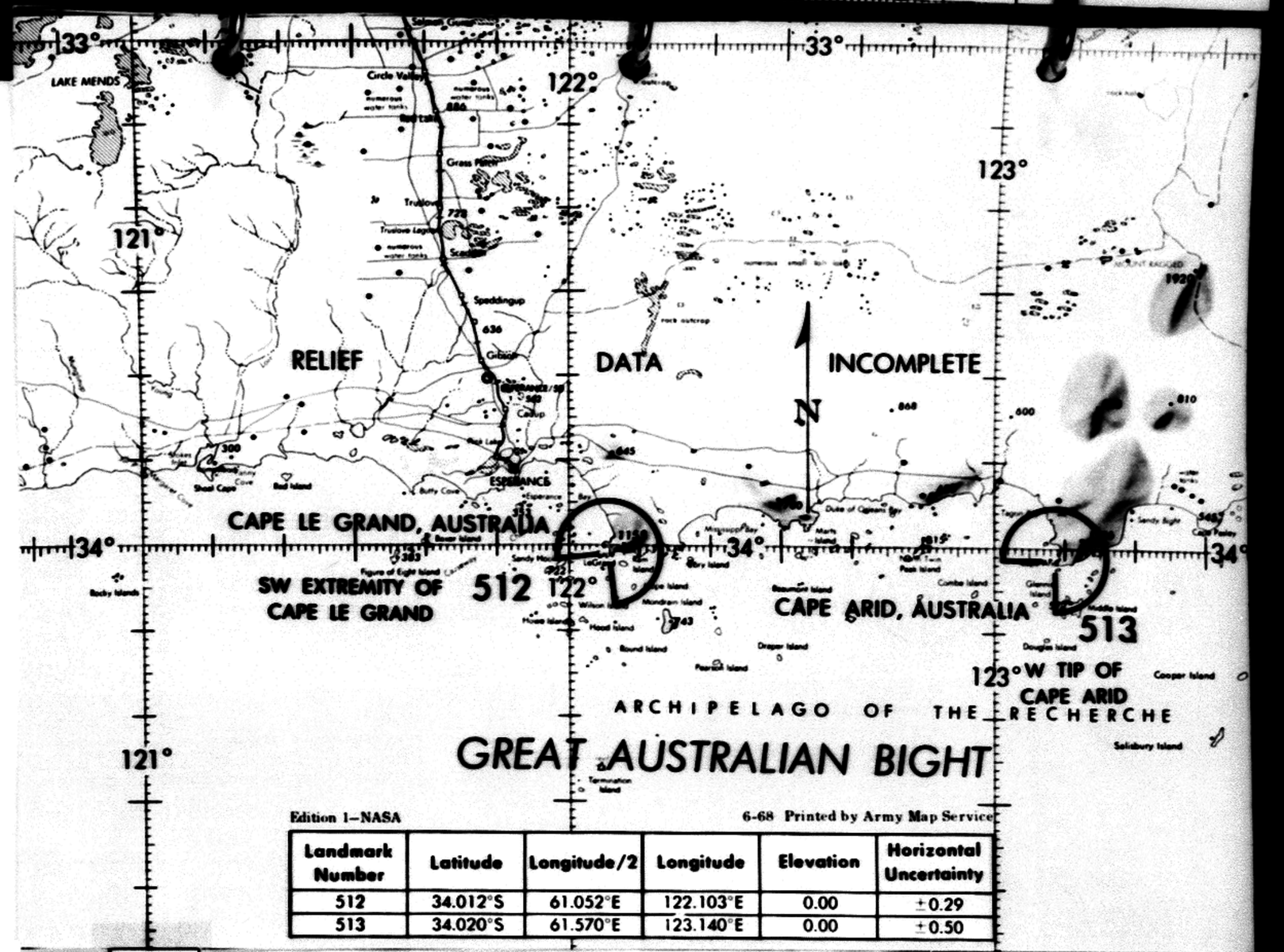
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
511	35.043°S	58.958°E	117.915°E	+.02	±0.15



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

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PORT AUGUSTA, AUSTRALIA

515

NW CORNER @ PIERHEAD OF CURLEW PT POWER STA

LAKE GAIRDNER

CAWLER RANGE

RELIEF DATA INCOMPLETE

EYRE PENINSULA

SPENCER GULF

PT WHIDBEY AUSTRALIA

514

SOUTHERN EXTREMITY OF PT WHIDBEY

WARDANG ISLAND, AUSTRALIA

516

NORTH TIP OF WARDANG ISLAND

CORNY PT, AUSTRALIA

517

LIGHTHOUSE ON CORNY PT

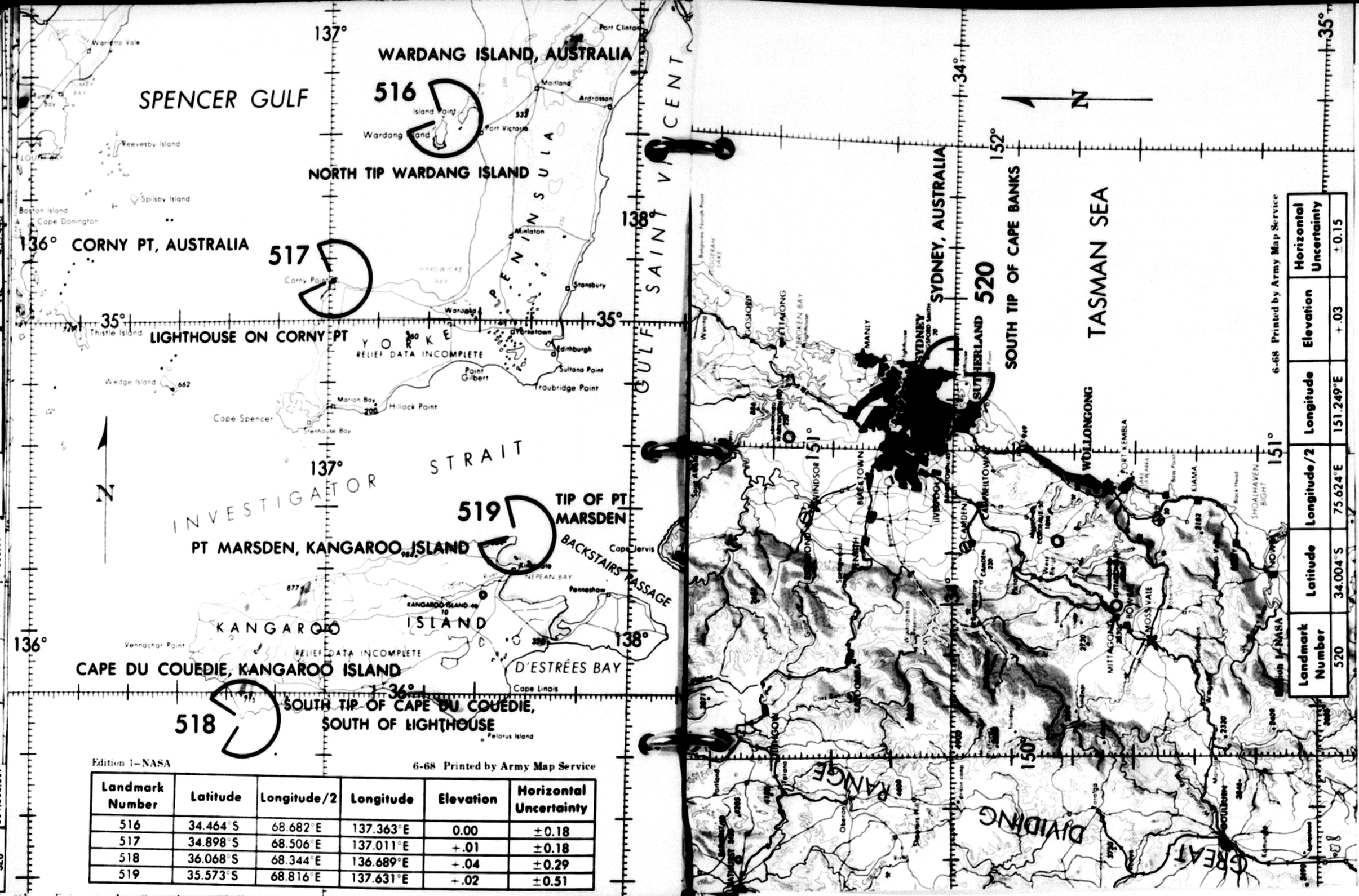
YORKE PENINSULA

INVESTIGATOR STRAIT

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
520	34.004°S	75.624°E	151.249°E	+.03	±0.15

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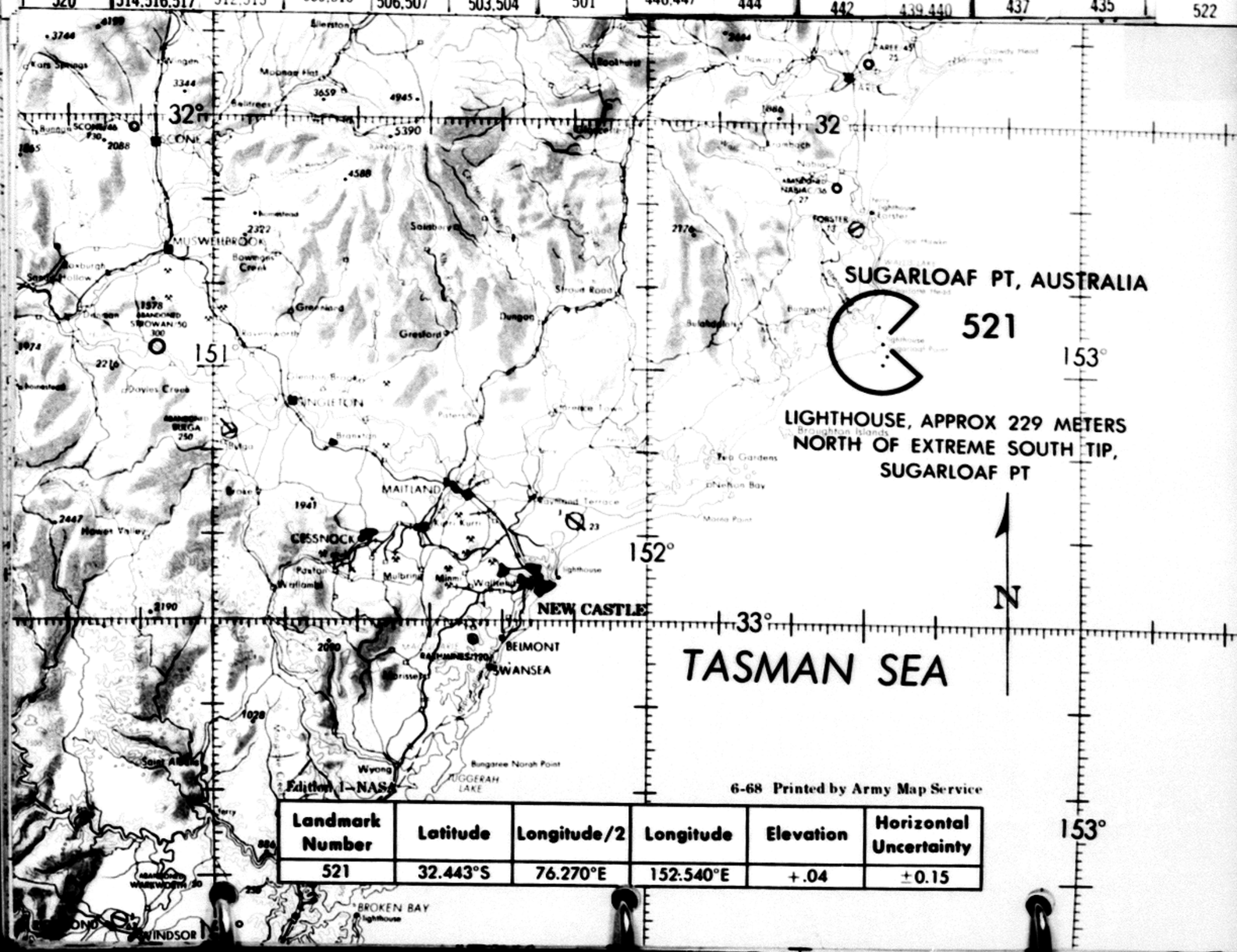
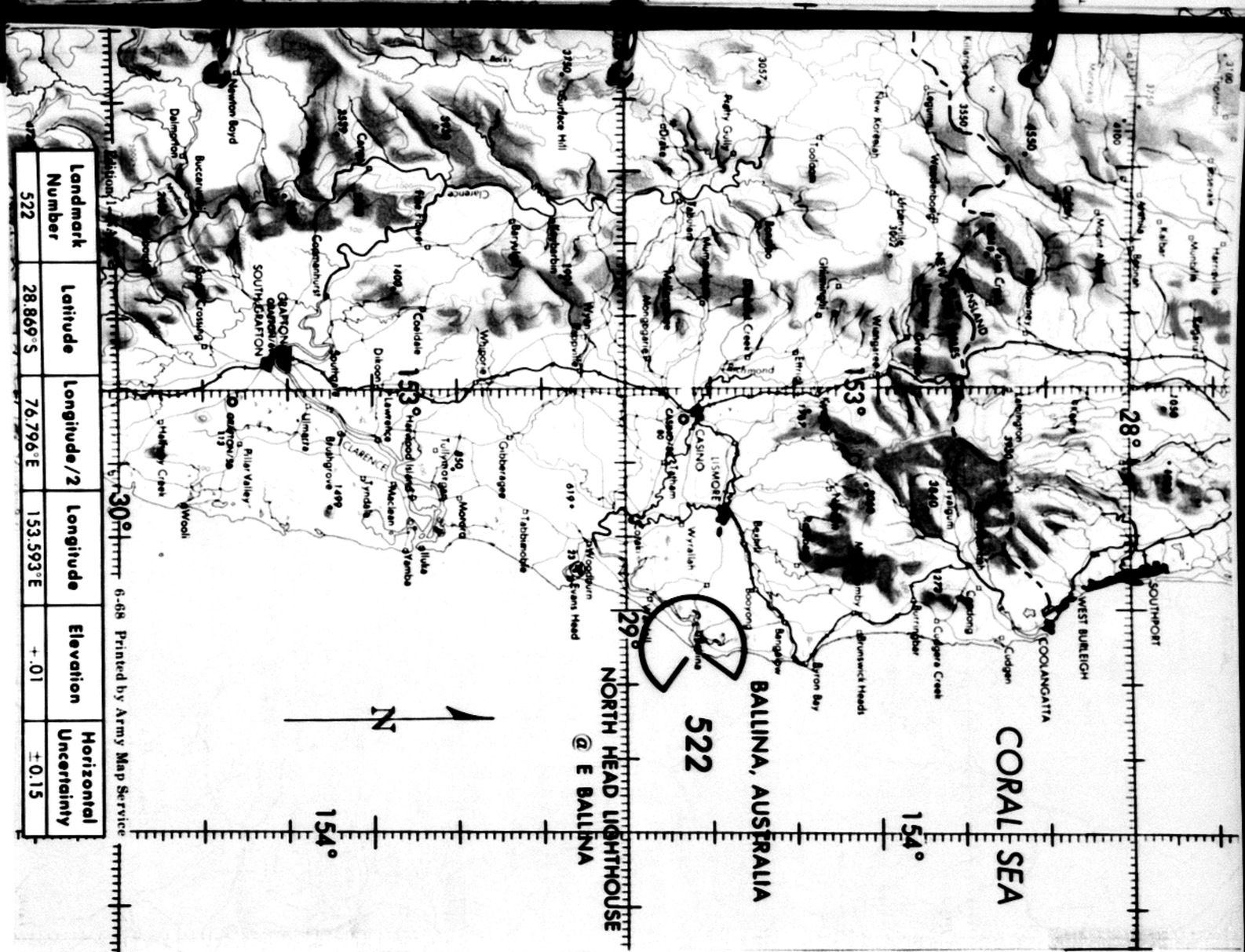
516,517, 518,519 520	515 514,516,517	511 512,513	508 509,510	505 506,507	502 503,504	448,449 501	445 446,447	443 444	441 442	438 439,440	436 437	434 435	521 522

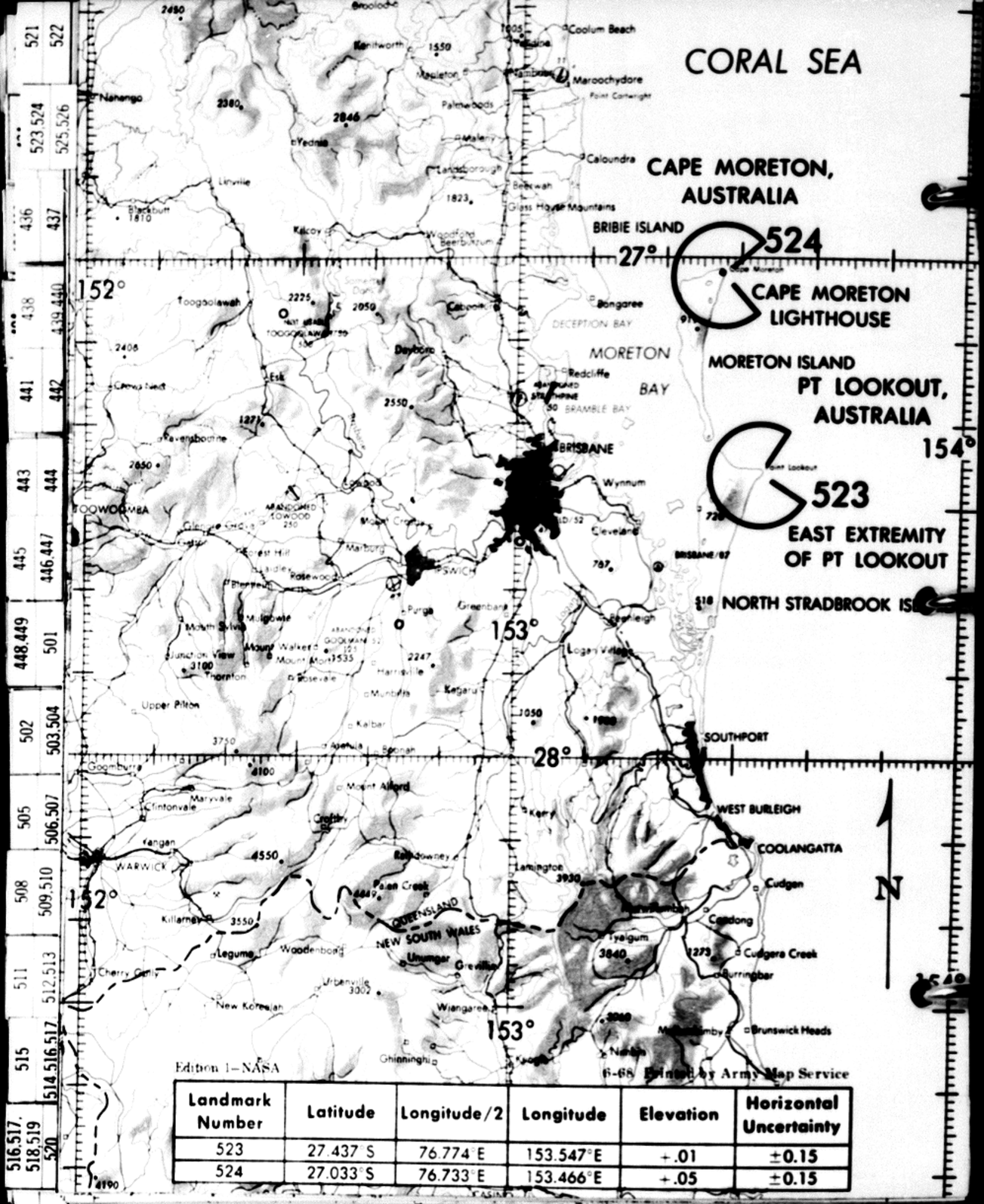


Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
521	32.443°S	76.270°E	152.540°E	+.04	±0.15

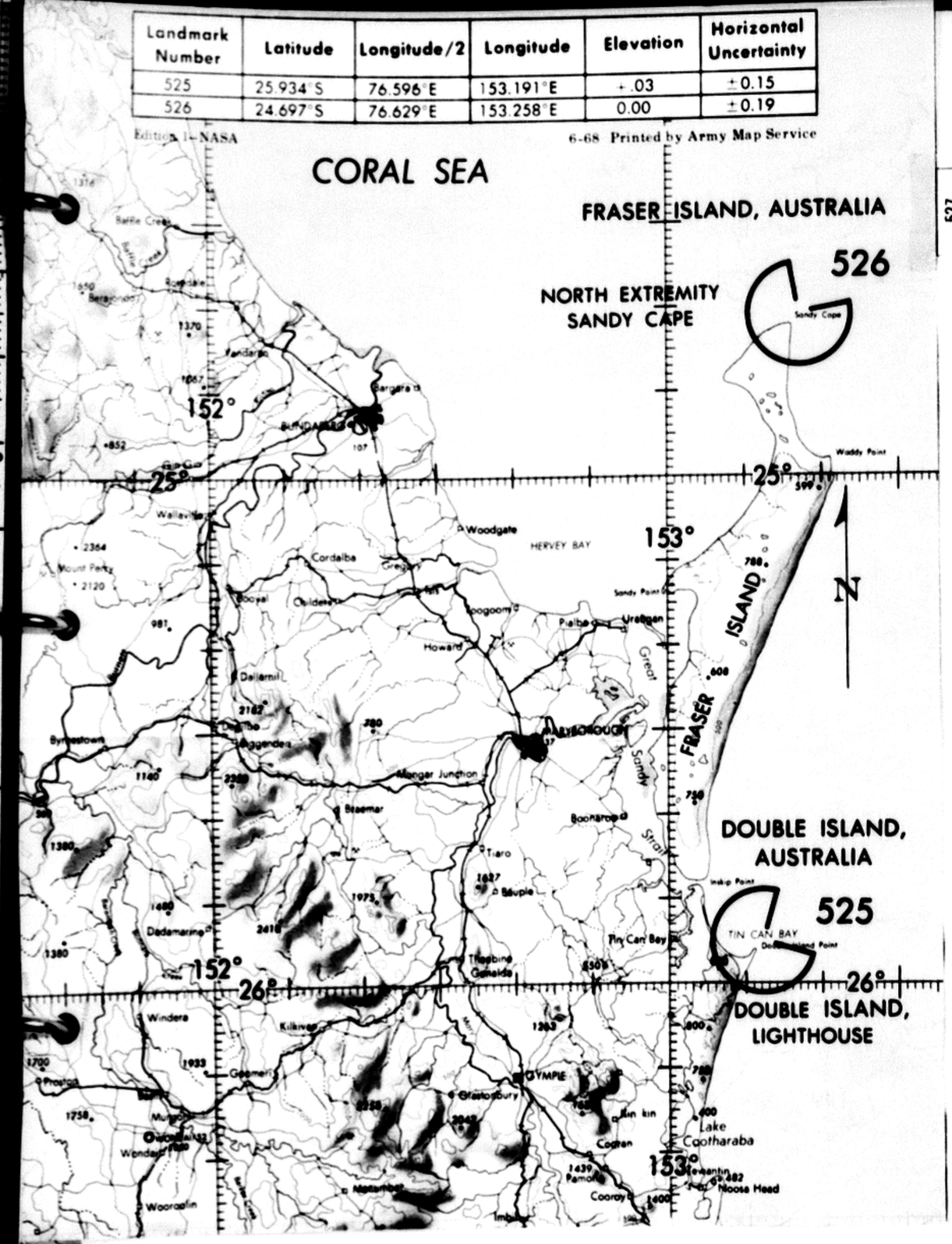


Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
522	28.869°S	76.796°E	153.593°E	+.01	±0.15

523,524
525,526

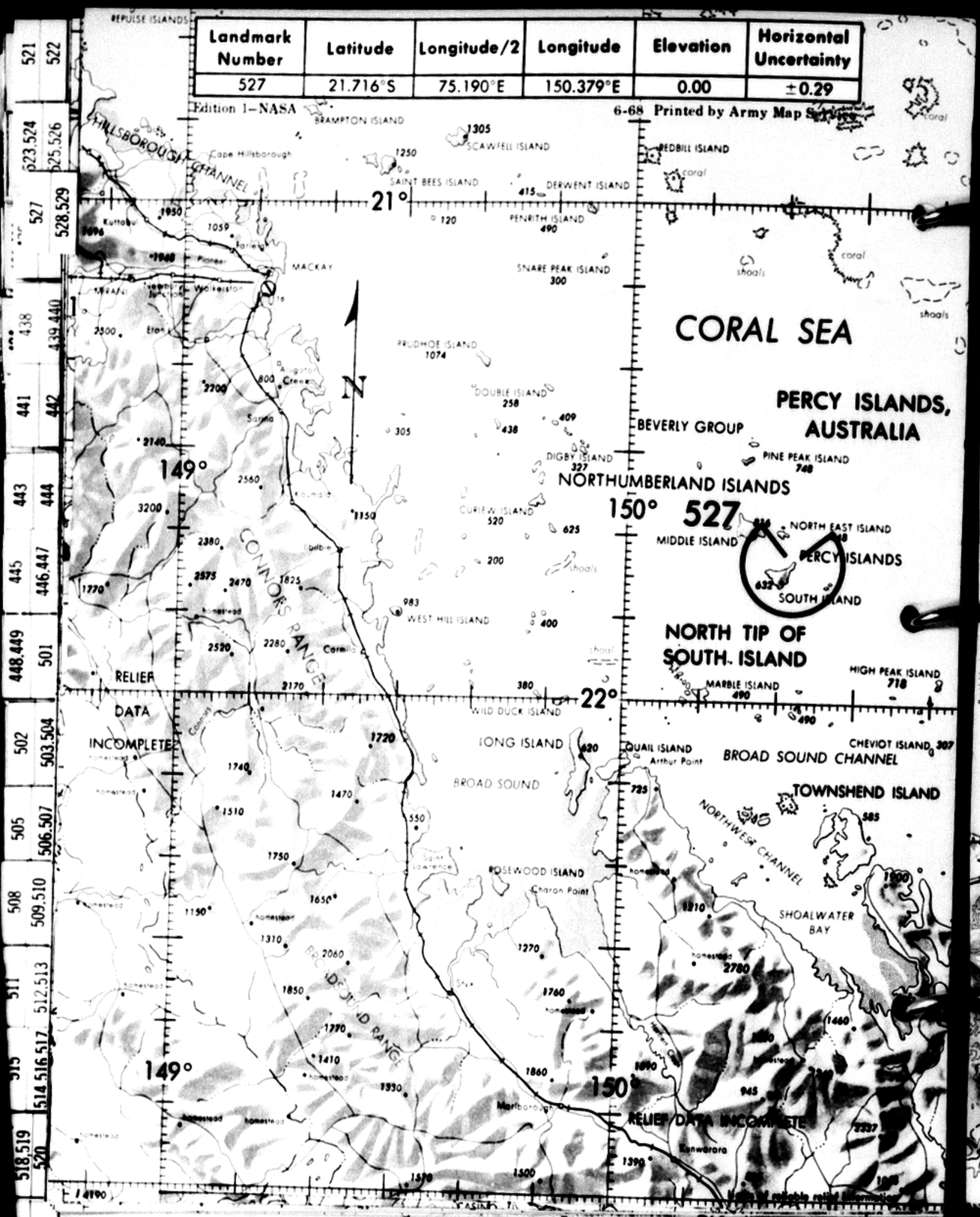


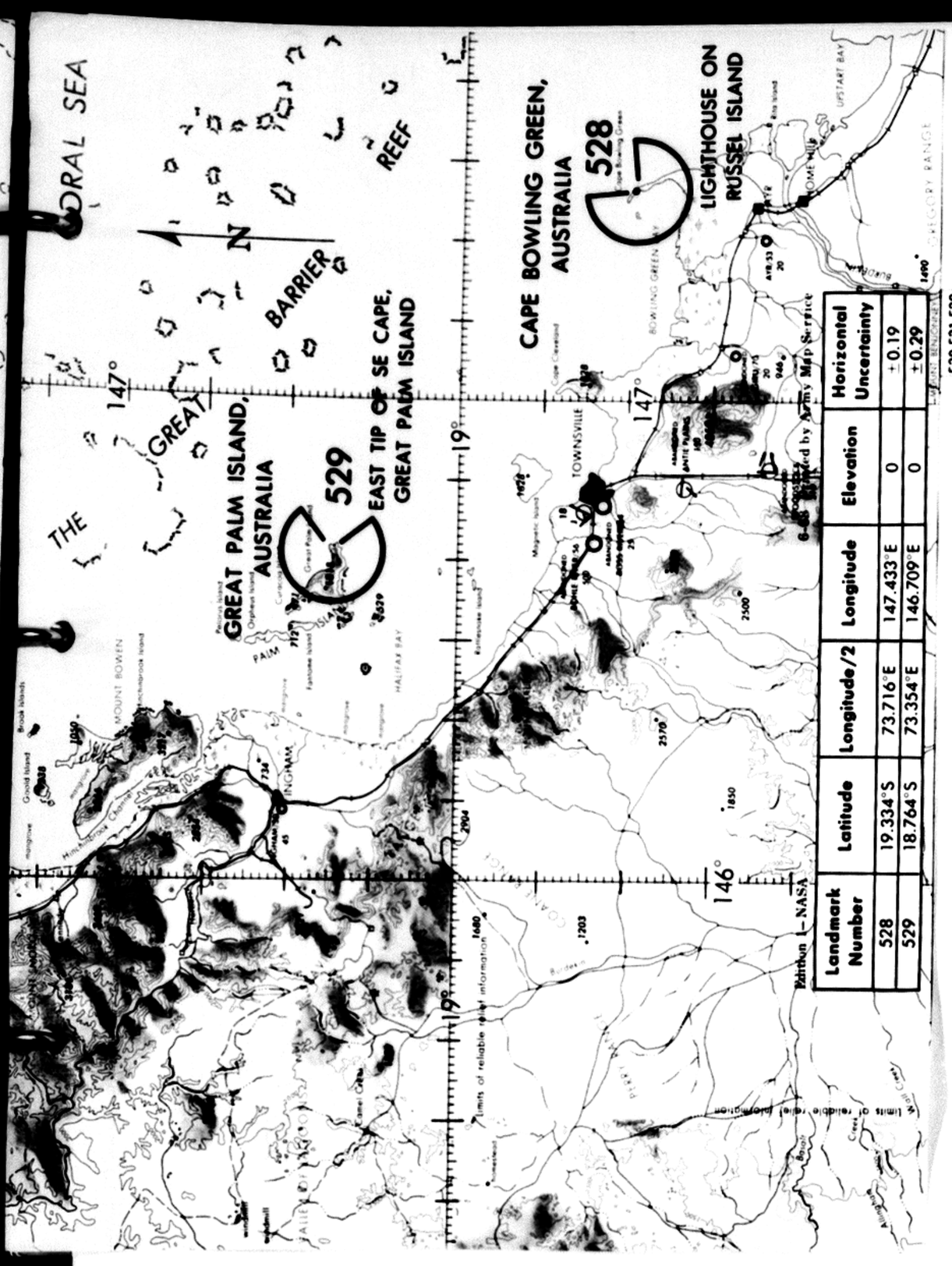
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
523	27.437°S	76.774°E	153.547°E	+.01	±0.15
524	27.033°S	76.733°E	153.466°E	+.05	±0.15



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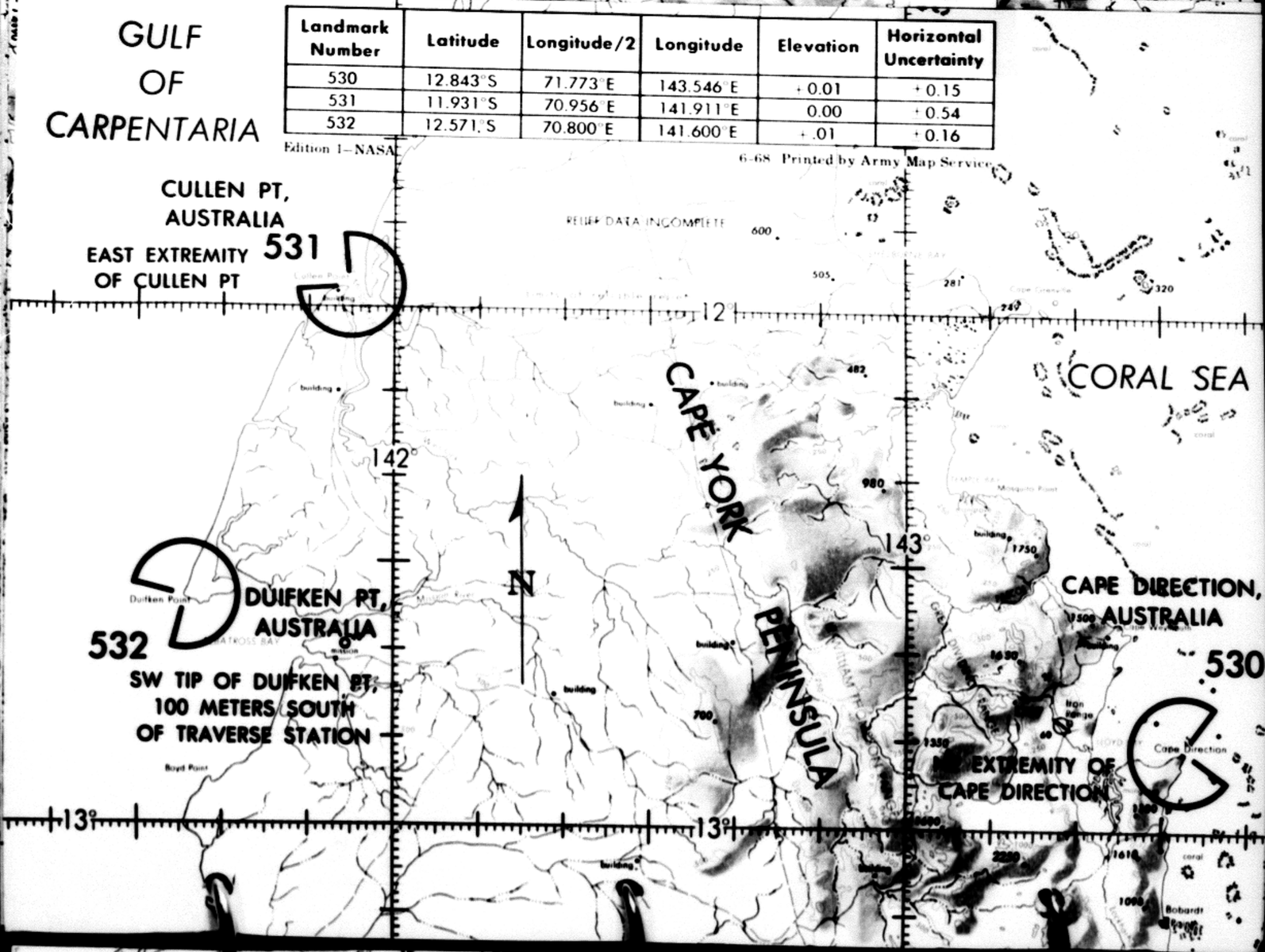
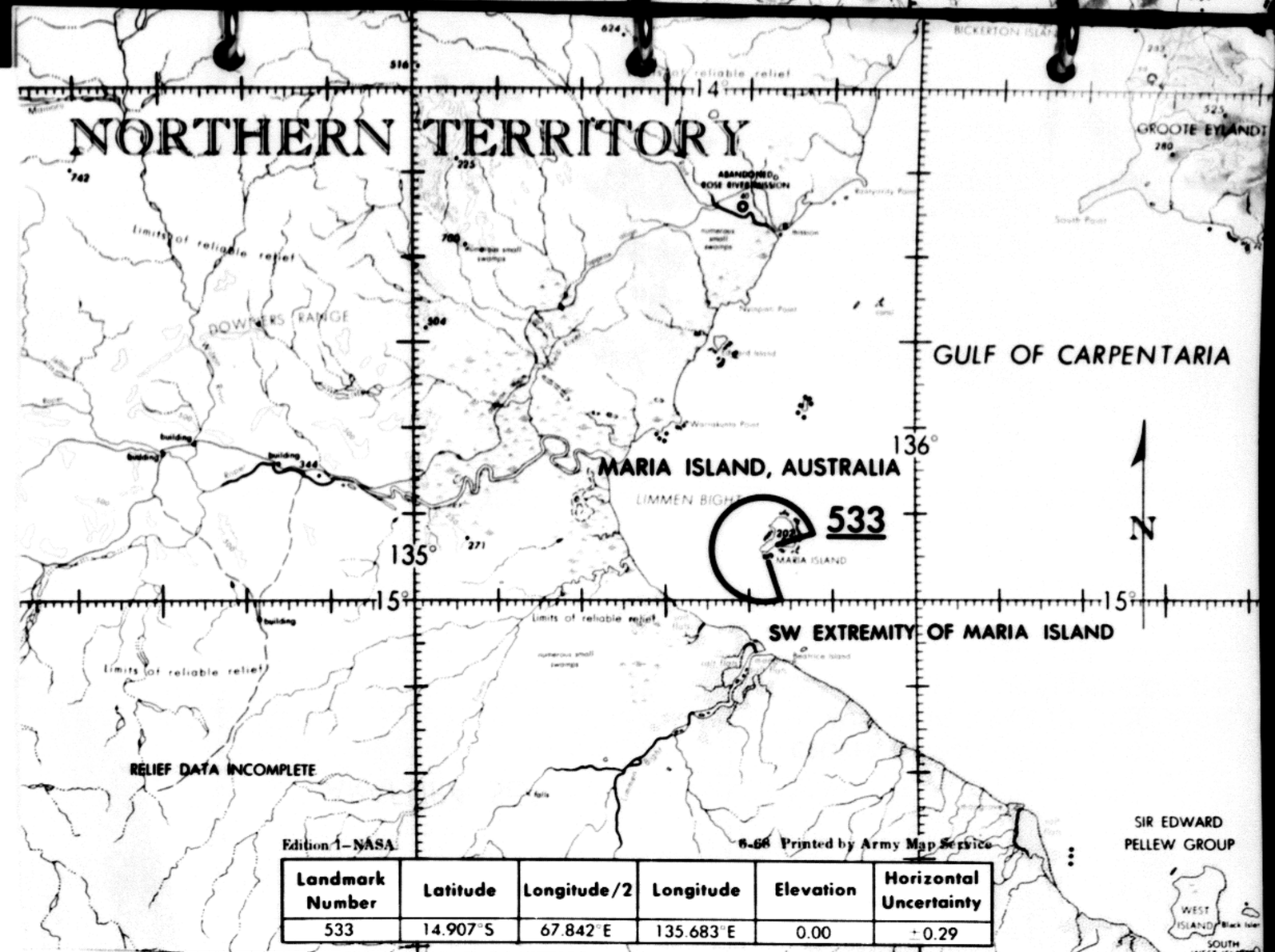
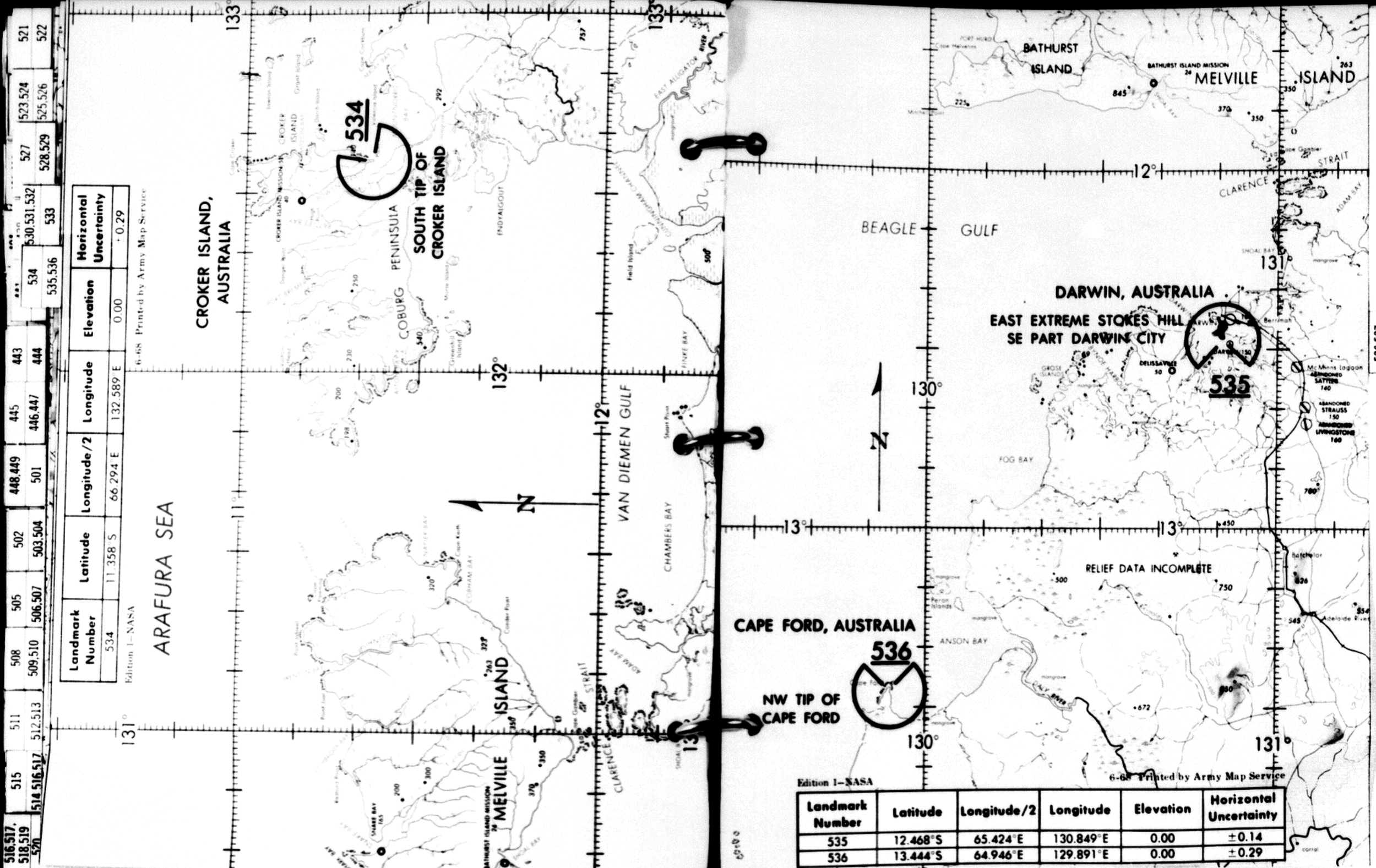
Landmark Number	Latitude	Longitude/2	Longitude	Elevation	Horizontal Uncertainty
530	12.843°S	71.773°E	143.546°E	+0.01	+0.15
531	11.931°S	70.956°E	141.911°E	0.00	+0.54
532	12.571°S	70.800°E	141.600°E	+.01	+0.16





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



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