

E. TYPHOON GEORGIA (12-14 AUGUST 1959)

For several days beginning on 10 August, a weak, ill-defined low pressure system was forming in the vicinity of Guam. A Weather reconnaissance aircraft, directed into the area, located Tropical Depression FRAN approximately 60 miles north of the island at 111200Z. However, some 12 hours later, it was evident that a second center induced by a fracture of the upper air polar trough was forming approximately 400 miles to the north of FRAN. Again a reconnaissance aircraft was sent to investigate and, at 120100Z, Tropical Storm GEORGIA was located at 22.4N - 145.2E with maximum observed surface winds of 45 knots. GEORGIA subsequently became the predominant circulation and FRAN quickly dissipated. At 120900Z, eight hours after initial detection, Tropical Storm GEORGIA was upgraded to a typhoon with center winds of 65 knots.

For twenty-four hours Typhoon GEORGIA moved in a northwesterly direction at an average speed of 14 knots. During this time GEORGIA passed 40 miles northeast of Iwo Jima and 50 miles southwest of Chichi Jima. During the passage of the typhoon, Iwo Jima reported maximum winds of 40 knots with gusts to 53 knots and Chichi Jima reported maximum winds of 30 knots with gusts to 48 knots. The reason neither of the islands experienced stronger winds was due to the fact that in the early stages GEORGIA was a "tight" circulation with maximum winds concentrated within a small distance of the center. After passing Chichi Jima, GEORGIA accelerated and increased in intensity reaching her peak at 130908Z when reconnaissance aircraft reported surface winds of 120 knots. She then turned to a north-northwesterly course and moved

at 25 knots. At 132230Z Typhoon GEORGIA, with center winds of 75 knots, passed approximately 45 miles west of Tokyo. At 140000Z she was downgraded to a tropical storm, having expended much of her energy crossing the Japanese Mainland. Six hours later, at 140600Z, GEORGIA had become an extra-tropical storm.

The formation of typhoons north of 20 degrees due to a fracture of the polar trough, while quite rare, is most common in the month of August. A check of climatology showed none with a history entirely similar to that of Typhoon GEORGIA. A strong gradient, associated with the upper level high oriented north-south to the east of GEORGIA, caused her to rapidly accelerate and move northward over Japan into the Sea of Japan. A total of only 9 warnings covering 3 days were issued.

For damage caused by Typhoon GEORGIA see section VI, "Destructive Effects of Typhoons."

RECONNAISSANCE AIRCRAFT FIXES - TYPHOON GEORGIA

FIX NO.	TIME	LAT.	LONG.	*UNIT METHOD & ACCY	MIN SLP MBS	MAX SFC WND	MIN 700MB HGT	MAX FLT LVL WND	700MB TEMP (°C)	700MB DEWPT (°C)	EYE CHARACTERISTICS
1	120100Z	22.4N	145.2E	54-P-5	991	45	9860	40	11	11	CIRC DIA 25 MI
2	120905Z	23.4N	143.4E	54-P-15	968	65	9620	55	15	11	CIRC DIA 20 MI
3	121100Z	24.3N	143.0E	54-R-20	--	--	--	28	--	--	CIRC DIA 20 MI
4	122000Z	25.8N	141.8E	54-P-0	964	95	9050	72	19	16	CIRC DIA 08 MI
5	130200Z	27.3N	140.8E	54-P-0	956	110	8960	60	20	17	CIRC DIA 15 MI
6	130230Z	27.2N	140.8E	54-P-1	953	75	--	--	--	--	ELLIP 18X09 MI
7	130734Z	29.2N	140.2E	12-R-4	--	--	--	--	--	--	CIRC DIA 09 MI
8	130908Z	29.6N	139.9E	56-P-5	953	120	--	--	--	--	CIRC DIA 10 MI
9	131400Z	31.5N	139.8E	56-R-5	--	--	--	55	--	--	CIRC DIA 10 MI
10	132000Z	34.4N	138.9E	54-P-2	961	90	9030	70	16	15	CIRC DIA 25 MI

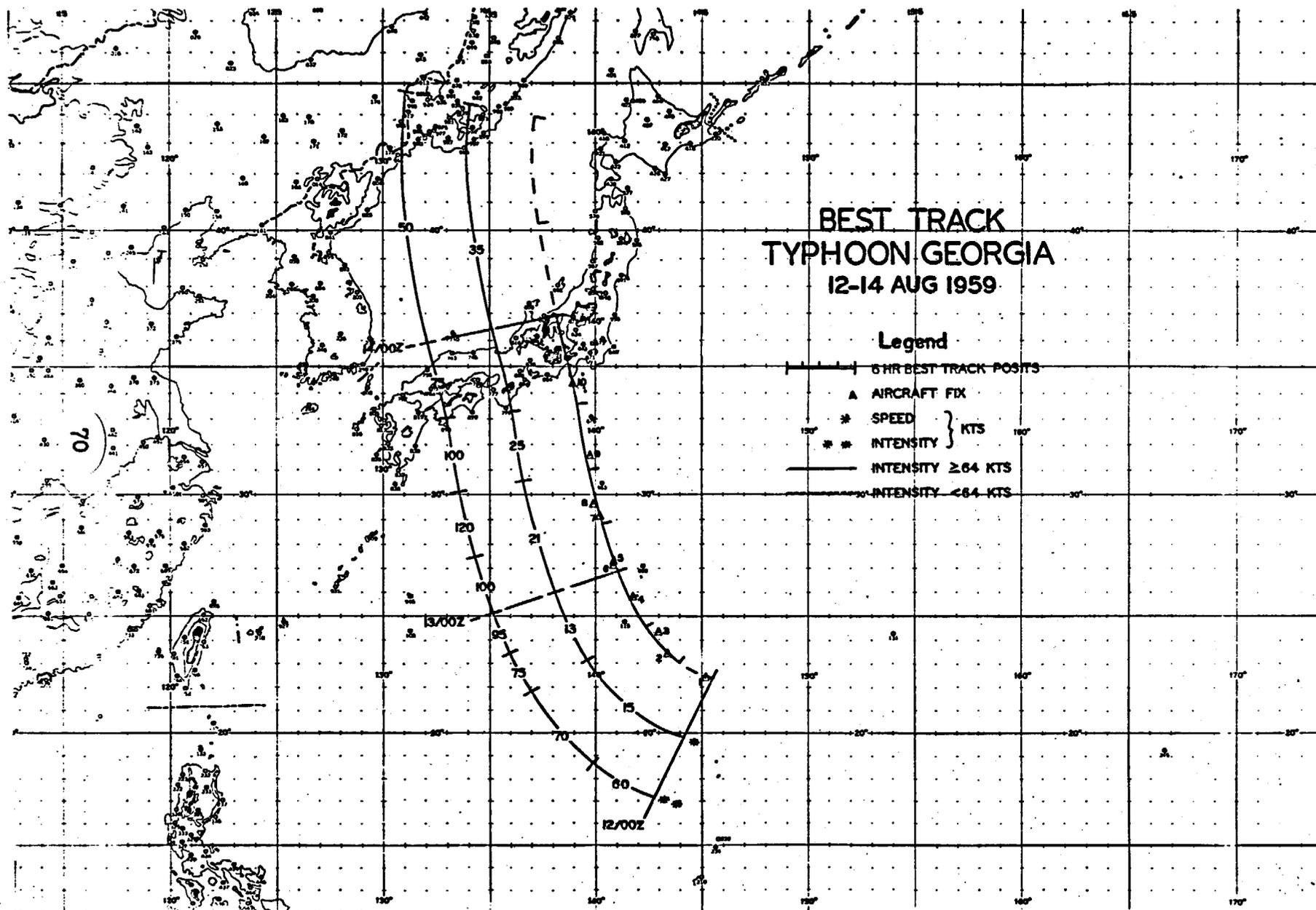
TYPHOON GEORGIA 12 - 14 AUGUST 1959  
POSITION AND FORECAST VERIFICATION DATA

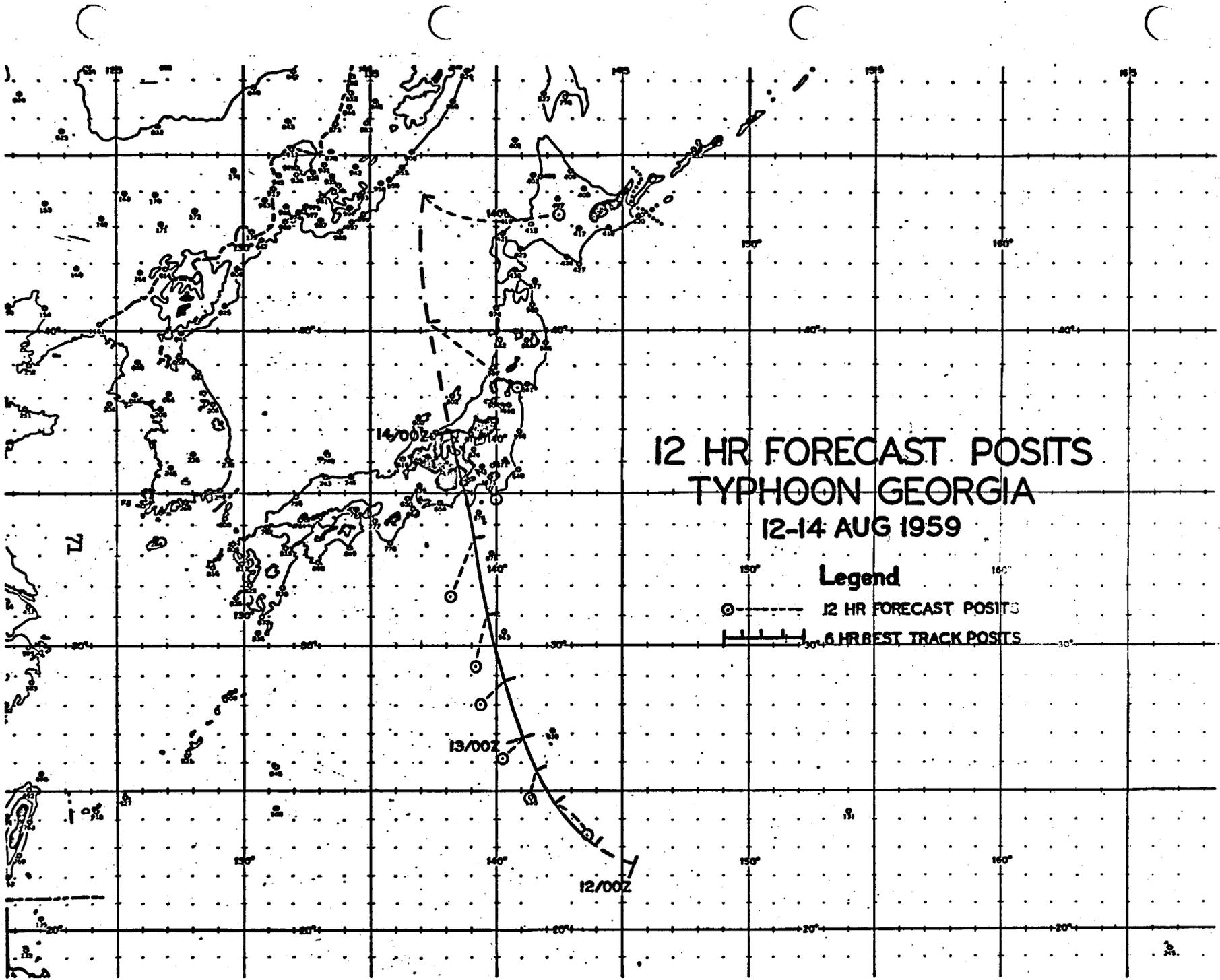
DTG	STORM POSITION		12 HR ERROR	24 HR ERROR
	LAT.	LONG.	DEG. DISTANCE	DEG. DISTANCE
120000Z	22.4N	145.5E	- - - -	- - - -
120600Z	23.0N	144.0E	- - - -	- - - -
121200Z	24.6N	142.4E	136 - 100	- - - -
121800Z	25.7N	141.7E	193 - 56	- - - -
130000Z	26.9N	141.1E	224 - 66	164 - 143
130600Z	28.9N	140.3E	219 - 72	210 - 163
131200Z	31.0N	139.7E	195 - 104	209 - 183
131800Z	33.5N	139.2E	207 - 115	214 - 192
140000Z	36.9N	138.2E	146 - 153	186 - 252
140600Z	40.3N	137.4E	125 - 195	165 - 315
141200Z	43.9N	137.2E	098 - 240	146 - 404
AVERAGE 12 HOUR FORECAST ERROR			122.3 NM	
AVERAGE 24 HOUR FORECAST ERROR			236.0 NM	

BEST TRACK  
TYPHOON GEORGIA  
12-14 AUG 1959

Legend

- 6 HR BEST TRACK POSITS
- ▲ AIRCRAFT FIX
- \* SPEED } KTS
- \*\* INTENSITY } KTS
- INTENSITY ≥ 64 KTS
- - - INTENSITY < 64 KTS

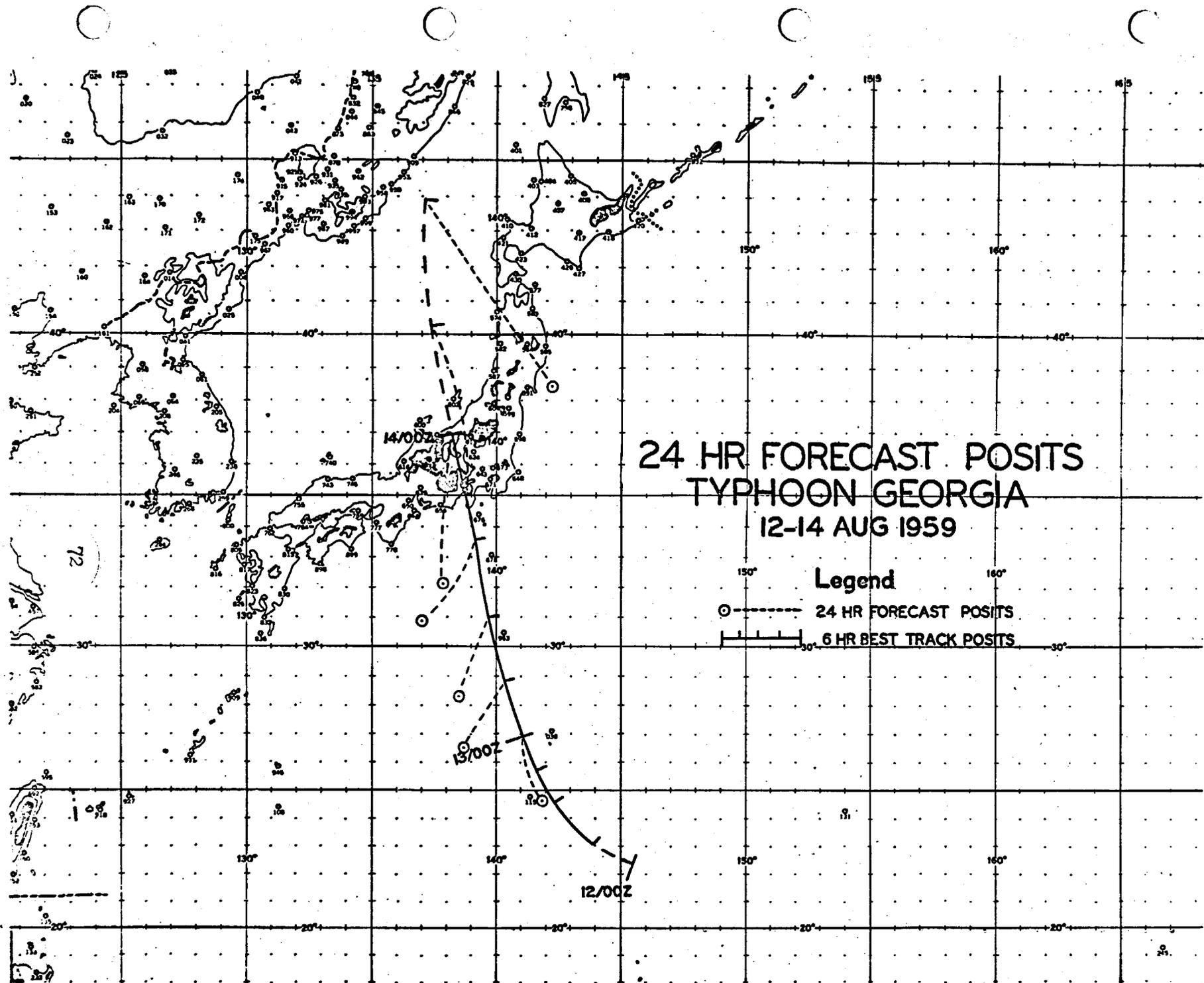




**12 HR FORECAST POSITS**  
**TYPHOON GEORGIA**  
**12-14 AUG 1959**

**Legend**

- 12 HR FORECAST POSITS
- 6 HR BEST TRACK POSITS



# 24 HR FORECAST POSITS TYPHOON GEORGIA 12-14 AUG 1959

## Legend

- 24 HR FORECAST POSITS
- 6 HR BEST TRACK POSITS