

NATIONAL HURRICANE CENTER  
TROPICAL CYCLONE FORECAST VERIFICATION - 1978

The following tables contain verification statistics for the 1978 hurricane season. The track forecast errors, expressed in nautical miles are computed in the following way. The magnitude of the vector difference (measured along a great circle) between the forecast displacement for a given time period and the actual displacement taken from the "best track" is computed for each forecast. All forecasts for which a given storm maintains at least tropical storm intensity are verified. These results are then averaged and tabulated.

The errors in the initial positioning of storms are also listed. For a given forecast, this is simply the magnitude of the great circle distance between the operational initial position and the corresponding "best track" initial position.

NATIONAL HURRICANE CENTER  
TROPICAL CYCLONE FORECAST VERIFICATION - 1978  
GENERAL SAMPLE - ALL STORMS, ALL FORECASTS

FORECAST TYPE	FORECAST PERIOD					
	Initial Position	12hr	24hr	36hr	48hr	72hr
(Displacement errors in nautical miles, number of cases in parentheses)						
OFFICIAL	19 (123)	61 (115)	135 (101)	(0)	315 (59)	408 (33)
NHC67	19 (93)	55 (91)	113 (77)	185 (63)	277 (51)	414 (35)
NHC72	19 (120)	60 (118)	130 (100)	203 (82)	266 (67)	407 (41)
HURRAN	20 (83)	55 (83)	119 (70)	195 (57)	258 (44)	344 (24)
CLIPER	19 (122)	57 (120)	136 (102)	224 (84)	300 (68)	398 (41)
NHC73	15 (43)	59 (42)	137 (36)	226 (30)	301 (24)	444 (17)
SANBAR	17 (52)	67 (51)	136 (43)	222 (36)	303 (28)	479 (19)
MFM	9 (10)	52 (10)	122 (10)	226 (9)	351 (8)	-- --

NATIONAL HURRICANE CENTER  
TROPICAL CYCLONE FORECAST VERIFICATION - 1978

HOMOGENEOUS SAMPLE

(All except MFM)

FORECAST TYPE	FORECAST PERIOD				
	Initial Position	12hr	24hr	48hr	72hr

---

(Displacement errors in nautical miles, number of cases in parentheses)

OFFICIAL	15 (29)	58 (27)	119 (27)	216 (13)	246 (7)
NHC67		53	109	252	277
NHC72		63	138	226	291
HURRAN		58	120	276	345
CLIPER		58	126	261	267
NHC73		61	133	248	352
SANBAR		72	139	275	385

NATIONAL HURRICANE CENTER

TROPICAL CYCLONE FORECAST VERIFICATION - 1978

HOMOGENEOUS SAMPLE

FORECAST TYPE	FORECAST PERIOD			
	Initial Position	12hr	24hr	48hr

---

(Displacement errors in nautical miles, number of cases in parentheses)

OFFICIAL	9 (10)	44 (10)	110 (10)	366 (8)
NHC73		41	103	303
SANBAR		59	141	410
MFM		52	122	351

