Data File Details

Column Name*	Unit	Description	Statistic Applied
year	year (C.E.)	Year of observation	Applied
month	month of year	Month of observation	
day	day of month	Day of observation	
hour	hour of day	Hour of observation	
Houi	days since 1 Jan	Time of observation	
time	1900 0:00 UTC		
	unitless	Unique ID for the cyclone center in the	
id		instantaneous cyclone field	
	unitless	Unique ID of the lowest pressure cyclone	
		center in a multi-center cyclone in the	
pid		instantaneous cyclone field	
	unitless	Track id (in file name) of the primary center for	
ptid		the cyclone system	
Х	grid columns	Column of input grid	
У	grid rows	Row of input grid	
lat	degrees N	Latitude of cyclone center (-90° to +90°)	
lon	degrees E	Longitude of cyclone center (-180° to +180°)	
p_cent	hPa	Sea-level pressure at cyclone center	
· -	hPa	Sea-level pressure at cyclone edge (last closed	
p_edge		isobar)	
area	km ²	Area enclosed by last closed isobar	
	km	Radius of a circle with the same area as the	
radius		cyclone	
depth	hPa	Edge pressure – center pressure	
<u> </u>	hPa / [1000 km]	Pressure gradient between center and ring of	
p_grad		cells with radius of 1000 km	
DsqP	hPa / [100 km] ²	Laplacian of central pressure	
'	unitless	1 = primary center, 2 = secondary center, 0 =	
		row only present for calculating propagation	
type		(used during splits, merges, and lysis events)	
71 -	count	Number of centers in the cyclone system; if it	
centers		is a secondary center, set to 0	
	unitless	0 = no genesis, 1 = center genesis, 2 = area	
Ege		genesis, 3 = center + area genesis	
Erg	unitless	0 = no event, 1 = secondary genesis event	
	unitless	0 = no lysis, 1 = center lysis, 2 = area lysis, 3 =	
Ely		center + area lysis	

Esp	unitless	0 = no split, 1 = centers split, 2 = areas split, 3 = centers + areas split	
Emg	unitless	0 = no merge, 1 = centers merge, 2 = areas merge, 3 = centers + areas merge	
Dp	hPa	Change in center pressure since last observation	
u	km / h	Zonal propagation velocity since last observation	
v	km / h	Meridional propagation velocity since last observation	
uv	km / h	Propagation speed since last observation	
DpDt	hPa / day	Deepening rate (scaled by latitude wrt 60°N)	

Formula/Scripts Applied

The original cyclone detection and tracking output is processed with a post-analysis Python script (C17_ExportToCSV_v13.py) that exports each track as a single CSV file and converts values into more standard units.