

# GLOBAL WIND & ATMOSPHERIC CIRCULATION

Annual Mean Pattern Reference

Projection: Mercator Grid Ref: NOAA/WMO Standard Date: 2024.05

LATITUDE ZONE	WIND SYSTEM	PRIMARY DIRECTION	ATMOSPHERIC CELL
<b>Northern Hemisphere</b>			
60N - 90N	Polar Easterlies	↗ <sup>TM</sup> NE to SW	Polar Cell
30N - 60N	Prevailing Westerlies	↖ SW to NE	Ferrel Cell
0 - 30N	NE Trade Winds	↗ <sup>TM</sup> NE to SW	Hadley Cell
<b>Equatorial Region (ITCZ)</b>			
0 (Equator)	Doldrums	↕ Variable/Light	Convergence Zone
<b>Southern Hemisphere</b>			
0 - 30S	SE Trade Winds	↖ SE to NW	Hadley Cell

LATITUDE ZONE	WIND SYSTEM	PRIMARY DIRECTION	ATMOSPHERIC CELL
30S - 60S	Roaring Forties	↗ NW to SE	Ferrel Cell
60S - 90S	Polar Easterlies	↖ SE to NW	Polar Cell

Note: Arrows indicate direction of flow relative to the cardinal grid. Local topographic variations and seasonal monsoons may alter these baseline patterns.