

**APPENDIX 2.2.9. MANDATORY AND HIGHLY RECOMMENDED GLOBAL  
NUMERICAL LONG-RANGE PREDICTION PRODUCTS TO BE  
MADE AVAILABLE ON THE WIS**

**GPC mandatory products (maps)**

Parameter	Coverage	Forecast range or Lead Time	Temporal Resolution	Output Type	Issuance Frequency
2-meter Temperature	Global*	Three month or six month (seasons)	Averages over 1-month or 3-month (seasons)	(1) Ensemble mean anomaly	Monthly
Sea Surface Temperature	Global* oceans			(2) Probabilities for tercile forecast categories	
Total Precipitation	Global*				

\* The standard maps are in 60S-60N as global, and some maps are in north polar projection.

**GPC highly recommended products (maps)**

Parameter	Coverage	Forecast range or Lead Time	Temporal Resolution	Output Type	Issuance Frequency
500 hPa Height	Global*	Three month or six month (seasons)	Averages over 1-month or 3-month (seasons)	(1) Ensemble mean anomaly	Monthly
Mean Sea Level Pressure					
850 hPa Temperature					

\* The standard maps are in 60S-60N as global, and some maps are in north polar projection.

**GPC highly recommended products (SST indices)**

Index	Description	Coordinates
<b>Pacific Ocean</b>		
Niño 1+2	Region off coasts of Peru and Chile	90°W - 80°W, 10°S - 0°
Niño 3	Eastern/Central Tropical Pacific	150°W - 90°W, 5°S - 5°N
Niño 3.4	Central Tropical Pacific	170°W - 120°W, 5°S - 5°N
Niño 4	Western/Central Tropical Pacific	160°E - 150°W, 5°S - 5°N
<b>Atlantic Ocean</b>		
TNA	Tropical North Atlantic	55°W - 15°W, 5°N - 25°N

TSA	Tropical South Atlantic	30°W - 10°E, 20°S - 0°
TAD	Tropical Atlantic Dipole	TNA-TSA
<b>Indian Ocean</b>		
WTIO	Western Tropical Indian Ocean	50°E - 70°E, 10°S - 10°N
SETIO	Southeastern Tropical Indian Ocean	90°E - 110°E, 10°S - 0°
IOD (DMI)	Indian Ocean Dipole (Dipole Mode Index)	WTIO-SETIO