i Earthquake Information HELP KOREAN



PyeongChang Mountain Cluster

Gangneung Coastal Cluster

Specialised Information

Specialised Information

Climate of Pyeongchang

Located on the east side of Asia (Figure 1), the PyeongChang 2018 region has a continental climate, featuring dry and cold winters (Figure 2), which provides good conditions for operating both snow and ice competitions. The normal average temperature and relative humidity are –4.8 °C and 67% in the Olympic Games Period (9-25 February), and –0.4 °C and 67% for the Paralympic Games Period (9-18 March) in the mountain cluster (Table 1).

However, there exists a trend of rising temperature in the region, which can affect the competitions in particular during the Paralympics. Another feature of the climate in PyeongChang is that the amount of precipitation varies by year, ranging 0mm to around 100 mm for each Period (Figures 3-6). In addition, the region has possibilities of extreme weather, which can significantly influence the Games schedule. For example, the daily snowfall and max temperature records are 87.0 cm and 16.5 °C respectively for the Olympic Period in the mountain cluster (Table 2).

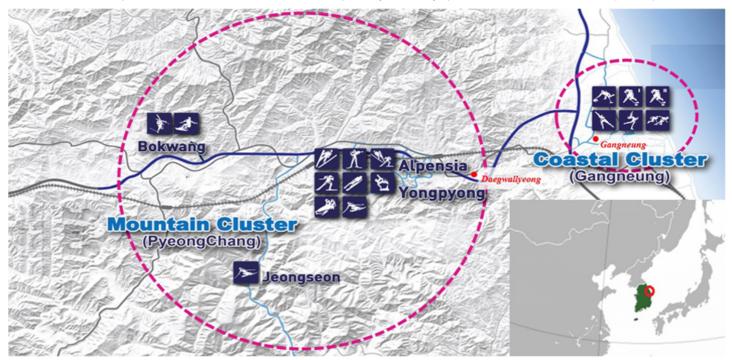


Figure 1 Locations of the PyeongChang 2018 venues and weather stations referred (red)

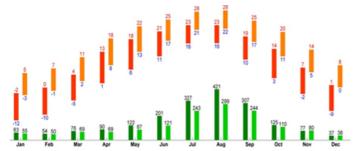


Figure 2 Mountain cluster (Daegwallyeong, 773m) (left) and coastal cluster (Gangneung, 26m) (right) monthly Climate Normals of max and min temperatures in °C (upper bars) and precipitation in mm (lower bars)

	Mountain cluster		Coastal cluster		
Element	Olympic period	Paralympic period	Olympic period	Paralympic period	
	(9-25 Feb)	(9-18 Mar)	(9-25 Feb)	(9-18 Mar)	
Mean temperature (°C)	-4.8	-0.4	2.4	6.3	
Max temperature (°C)	0.2	4.5	6.9	11.0	
Mintemperature (°C)	-9.8	-5.3	-1.4	1.8	
Precipitation (mm)	36.7	23.1	38.2	17.7	
Snowfall (cm)	41.3	18.6	15.2	3.5	
Wind speed (m/s)	4.6	4.6	3.0	2.8	
Relative humidity (%)	67	67	53	55	

Table 1 Climate Normals for the mountain and coastal clusters during the Olympic and Paralympic Periods

Temperatures and Precipitation in Mountain Cluster during Olympic Period (Daegwallyeong)

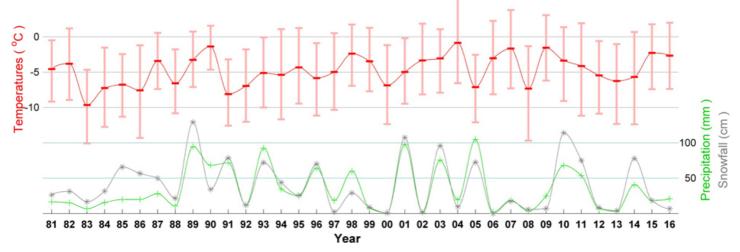


Figure 3 Mountain cluster (Daegwallyeong) variation of temperatures (average, min and max), precipitation and snowfall for the Olympic Period

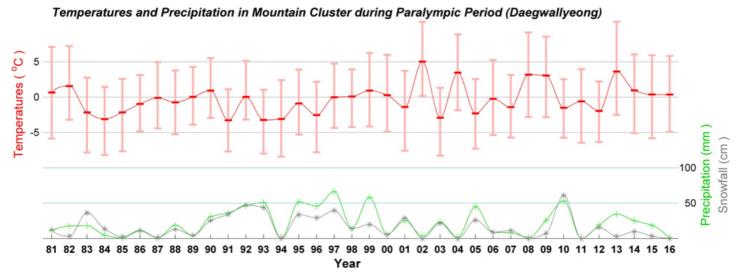


Figure 4 Mountain cluster (Daegwallyeong) variation of temperatures (average, min and max), precipitation and snowfall for the Paralympic Period

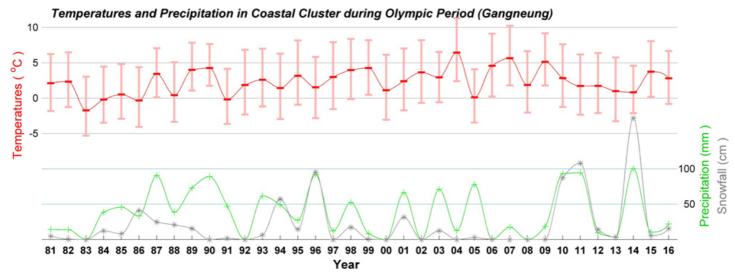


Figure 5 Coastal cluster (Gangneung) variation of temperatures (average, min and max), precipitation and snowfall for the Olympic Period

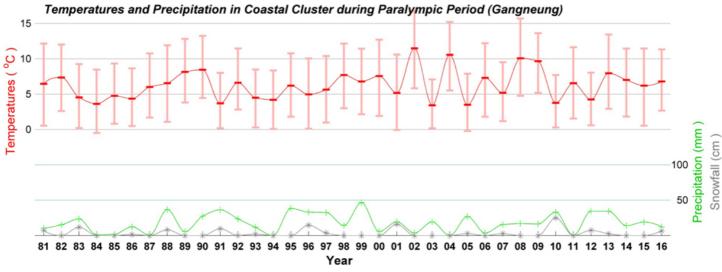


Figure 6 Coastal cluster (Gangneung) variation of temperatures (average, min and max), precipitation and snowfall for the Paralympic Period

Element		Olympic Period (9-25 Feb)		Paralympic Period (9-18 Mar)		
Element			Value	Date	Value	Date
Mountain cluster (Daegwall yeong*)	A(%)	High	10.5	13-02-2009	13.8	18-03-2009
	Average temperature (°C)	Low	-18.1	23-02-1991	-11.5	12-03-1974
	3.5	High	16.5	20-02-2004	18.0	09-03-2013
	Max temperature (°C)	Low	-13.4	16-02-1977	-7.4	12-03-1974
	Min temperature (°C)	High	3.6	13-02-2009	10.5	18-03-2009
		Low	-27.6	15-02-1978	-18.0	11-03-2001
	Sea level pressure (hPa)	High	1044.5	18-02-2008	1044.6	16-03-1985
		Low	989.1	13-02-2009	997.0	09-03-2013
	Relative humidity (%)	Low	10	19-02-2004	10	13-03-1997
	Wind speed (m/s)	High	22.7	20-02-1990	19.0	18-03-1988
	Gust wind speed (m/s)	High	34.2	21-02-1991	30.0	09-03-1977
	Day precipitation (mm)	High	68.3	25-02-1989	30.1	09-03-1978
	Daysnowfall (cm)	High	87.0	25-02-1989	38.0	10-03-2010
Coastal cluster (Gangneung)	A(%C)	High	14.4	25-02-1977	20.3	18-03-2009
	Average temperature (°C)	Low	-11.5	10-02-1920	-5.8	11-03-1950
	Man tananantan (*C)	High	21.4	25-02-2010	24.0	17-03-1955
	Max temperature (°C)	Low	-7.5	10-02-1920	-1.0	10-03-1971
) F- t (*0)	High	9.7	21-02-2004	17.1	18-03-2009
	Min temperature (°C)	Low	-15.4	11-02-1957	-9.5	12-03-1950
	C 11 (LD-)	High	1038.4	09-02-1937	1039.5	15-03-1985
	Sea level pressure (hPa)	Low	988.3	13-02-2009	996.2	16-03-1956
	Relative humidity (%)	Low	6	16-02-2009	8	10-03-2015
	Wind speed (m/s)	High	29.2	16-02-1912	242	10-03-1918
	Gust wind speed (m/s)	High	32.6	11-02-1962	28.1	12-03-1966
	Day precipitation (mm)	High	67.8	13-02-1954	64.7	12-03-1934
	Daysnowfall (cm)	High	77.7	11-02-2011	33.5	11-03-1969

Table 2 Weather records of PyeongChang 2018 region in the Games time



61 16-GIL YEOUIDAEBANG-RO DONGJAK-GU SEOUL 07062, REPUBLIC OF KOREA COPYRIGHT © 2009 KMA. ALL RIGHTS RESERVED. E-MAIL: MASTER_KMA@KMA.GO.KR