

Sun's altitude angle at solar noon.

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Sun's altitude at solar noon at different times of the year in four New Zealand centres				
	Latitude	Dec 22	June 22	March 21 & Sept 23
Auckland	36.8°S	76.7°	29.7°	53.2°
Wellington	41.3°S	72.2°	25.2°	48.7°
Christchurch	43.5°S	70.0°	23.0°	46.5°
Dunedin	46.0°S	67.5°	20.5°	44.0°