

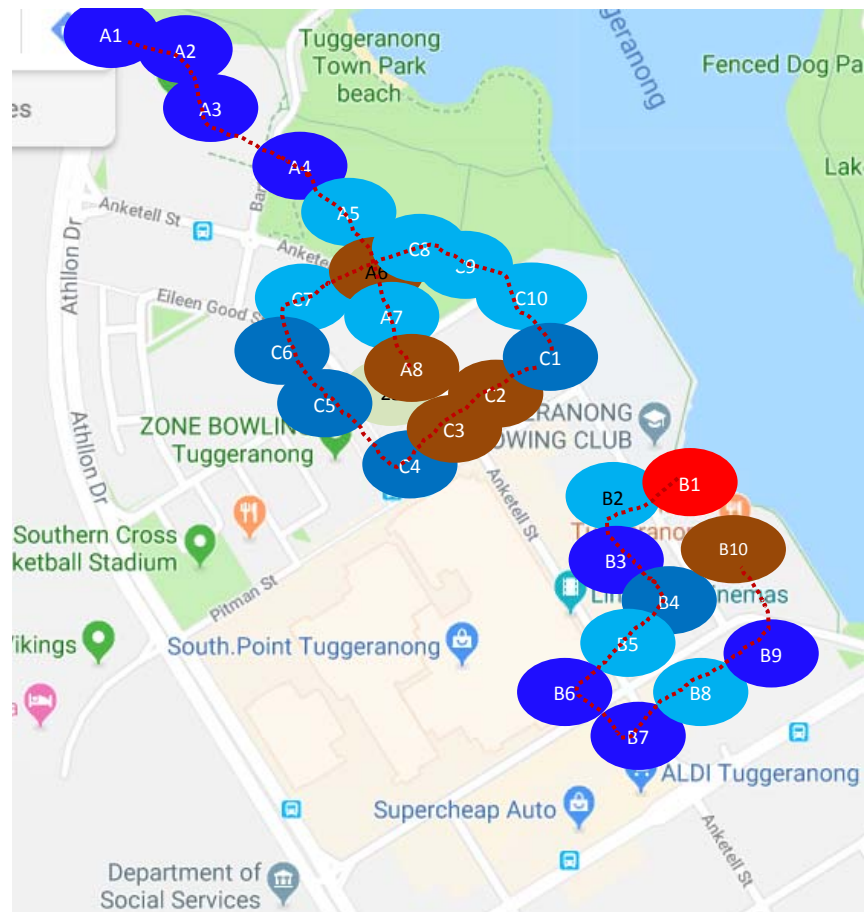
# Summary of Tuggeranong Measurements

Location: Tuggeranong Community Centre | 245 Cowlshaw Street St, Greenway ACT 2900

Date: 8 February 2019, Time: 1-3 pm,

Reference meteorological station: BoM station, Tuggeranong (air temperature @ 2 pm – 28.3°C, RH – 32%)

The air temperature, relative humidity, globe temperature, wind speed and surface temperatures were recorded at 30 locations. The map illustrates air temperature measured at each of the location numbered inside the circle. Please refer to the legend at the right-hand side of the map for the range of temperature values depicted using the colour code. The summary table below shows maximum and minimum values for each of the parameters and the locations they are recorded.

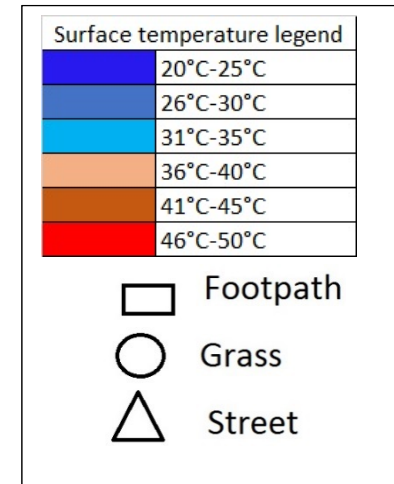
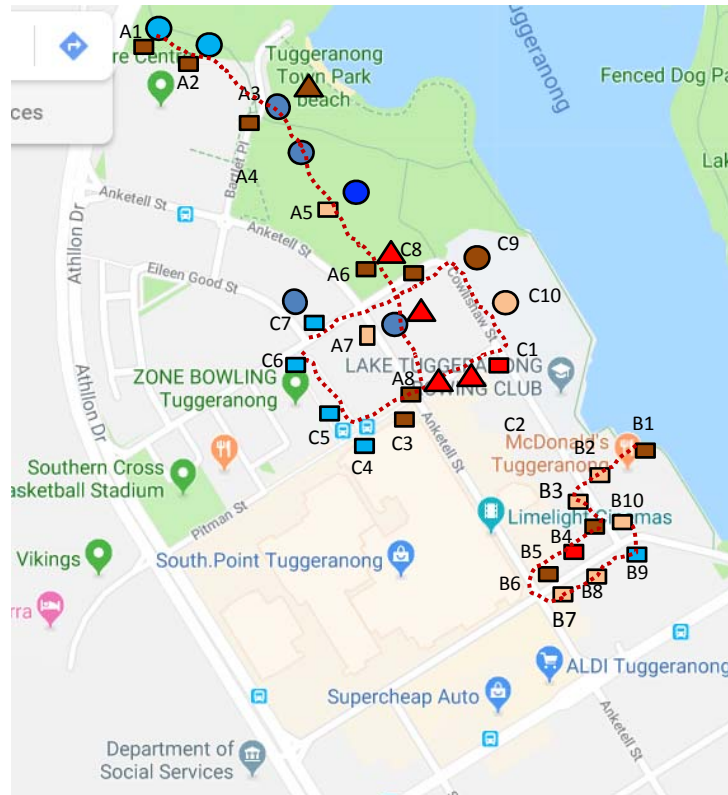


Dark Blue	28.5-29
Medium Blue	29-29.5
Light Blue	29.5-30
Brown	30-30.5
Red	30.5-31

	Globe temperature (°C)	Air temperature (°C)	Relative Humidity (RH%)	Wind Speed (m/s)	Surface temperature (°C)		
					Sidewalk	Grass	Street
Max	32.6 (Location B4)	30.8 (Location B1)	32.3 (Location C7)	5.2 (Location 16)	47.8 (Location C1)	42.3 (Location C9)	48.3 (Location C3)
Min	29.2 (Location A4,A8)	28.6 (Location A4,B6, B9)	29.2 (Location B1, B8)	0.6 (Location C5)	30.9 (Location C4)	24.7 (Location A5)	26.8 (Location A3)

## Performance of surface materials

Surface measurements at each Locations were recorded using a spot infra-red thermometer. The IR thermometer was pointed at different surfaces including the footpath, grass and road pavement. It was also noted if these surfaces were exposed to the sun or under the shade, if the grass was wet or dry, etc. The map shows the surface temperatures recorded at various locations and surfaces. The table below shows the summary of the maximum and minimum surface temperatures measured at various conditions and the locations they are recorded.



Type of Material	Surface temperature (°C)		Surface temperature (°C)	
	<i>Urban Layout</i>		<i>Greenery</i>	
	Min	Max	Min	Max
Dry grass under sun	NA		NA	
Street under sun	NA		NA	
Footpath under sun	NA		NA	
Street under shade	48.3 (Loc.C2)		43 (Location A3)	47.2 (Location A8)
Footpath under shade	30.9 (Location C4)	47.8 (Location C1)	38.4 (Location A7)	44.3 (Location A8)
Wet grass under shade	28.5 (Location C7)	42.3 (Loc.C9)	24.7 (Location A5)	28.2 (Location A7)
Dry grass under shade	38.7 (Loc.C10)		29.1 (Location A3)	33 (Location A2)



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## Data recorded by citizens

No	Globe temperature (°C)	Air temperature (°C)	Relative Humidity (%)	Wind speed (m/s)
A1	29.8	28.8	32	1.6-3.1
A2	29.6	29	32.3	0.8-1.2
A3	29.6	28.8	32.3	1.6-1.7
A4	29.2	28.6	32	2.3-3.1
A5	30	29.1	32	2.2-2.9
A6	30.4	30.1	29.7	0.6-0.7
A7	29.9	29.7	30.3	2.1-2.3
A8	29.2	30.3	29.8	1-3.5

No	Globe temperature (°C)	Air temperature (°C)	Relative Humidity (%)	Wind speed (m/s)
B1	29.9	30.8	29.2	1.2-2.8
B2	30.4	30	29.5	0.2-1.2
B3	31.4	28.9	30	0-2
B4	32.6	29.1	30.7	0-1.8
B5	30.7	29.9	29.7	1.4-3.5
B6	31.8	28.6	30.4	0.7-2.7
B7	31.8	28.8	29.6	0.8-1.7
B8	30.6	29.8	29.2	0.2-2
B9	31.2	28.6	29.8	0.8-2
B10	31.2	30.1	29.7	0.2-2.6

No	Globe temperature (°C)	Air temperature (°C)	Relative Humidity (%)	Wind speed (m/s)
C1	31.3	29.3	30.7	0-1.8
C2	31.5	30.3	29.5	0.3-2.3
C3	31.7	30.3	29.9	0-1.9
C4	29.7	29	31.3	0.9-2.4
C5	29.8	29	31.4	1.7-5.2
C6	30.2	29.4	31.4	0-3.2
C7	31	29.6	32.3	2-2.4
C8	31.4	29.6	31.6	0.4-2
C9	32	29.6	30.1	0.8-2.2
C10	31.9	29.7	30.4	0.4-1.2



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