

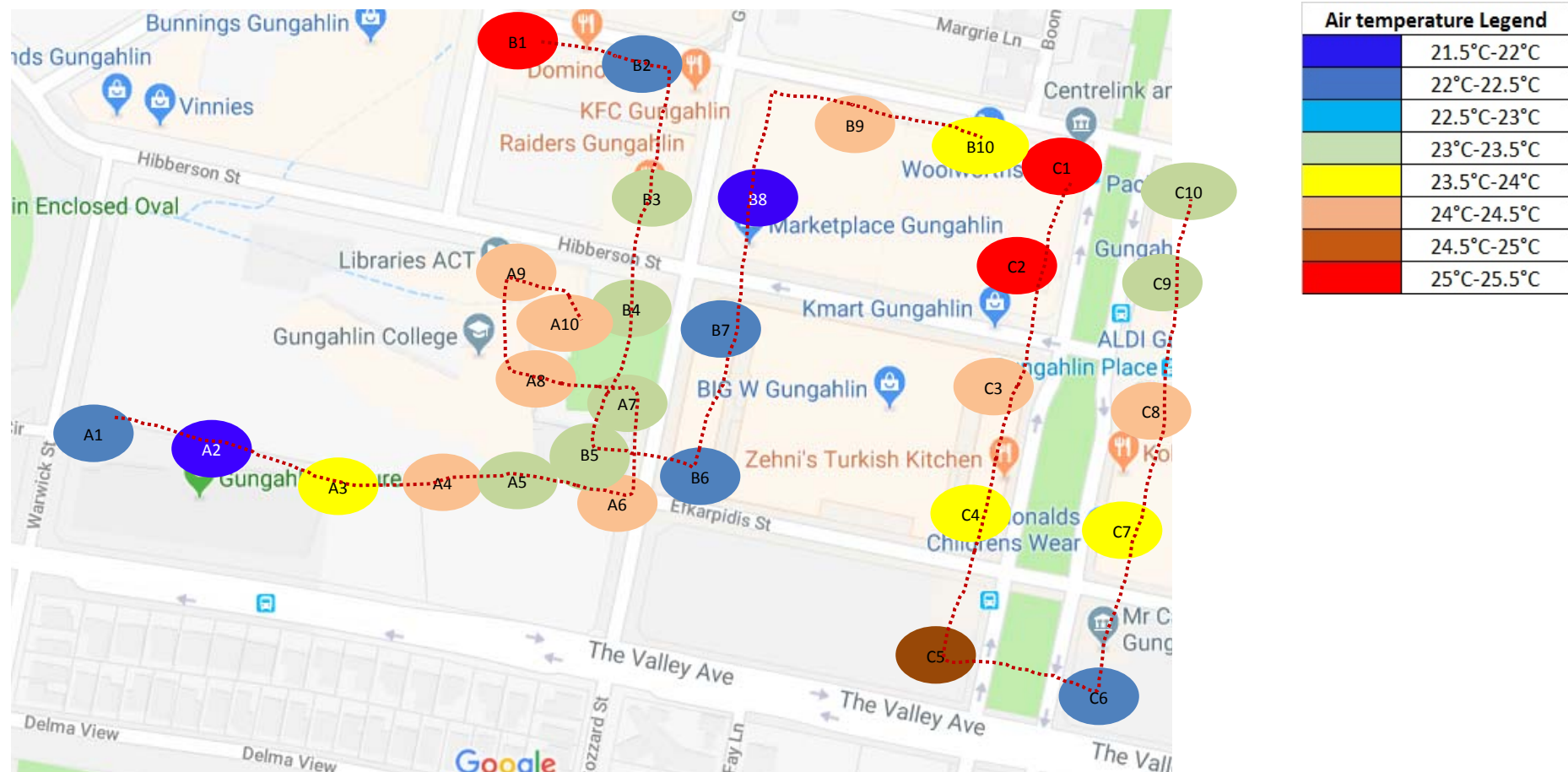
Summary of Gungahlin Measurements

Location: Gungahlin Community Centre | 47 Ernest Cavanagh St, Gungahlin ACT 2912

Date: 10 February 2019, Time: 1-3 pm,

Reference meteorological station: BoM station, Canberra Airport (air temperature @ 2 pm - 22°C, RH – 34%)

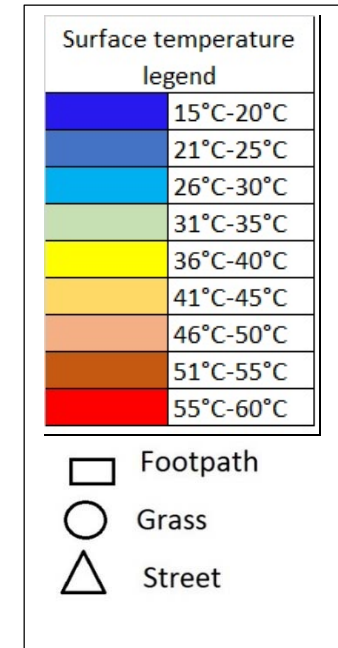
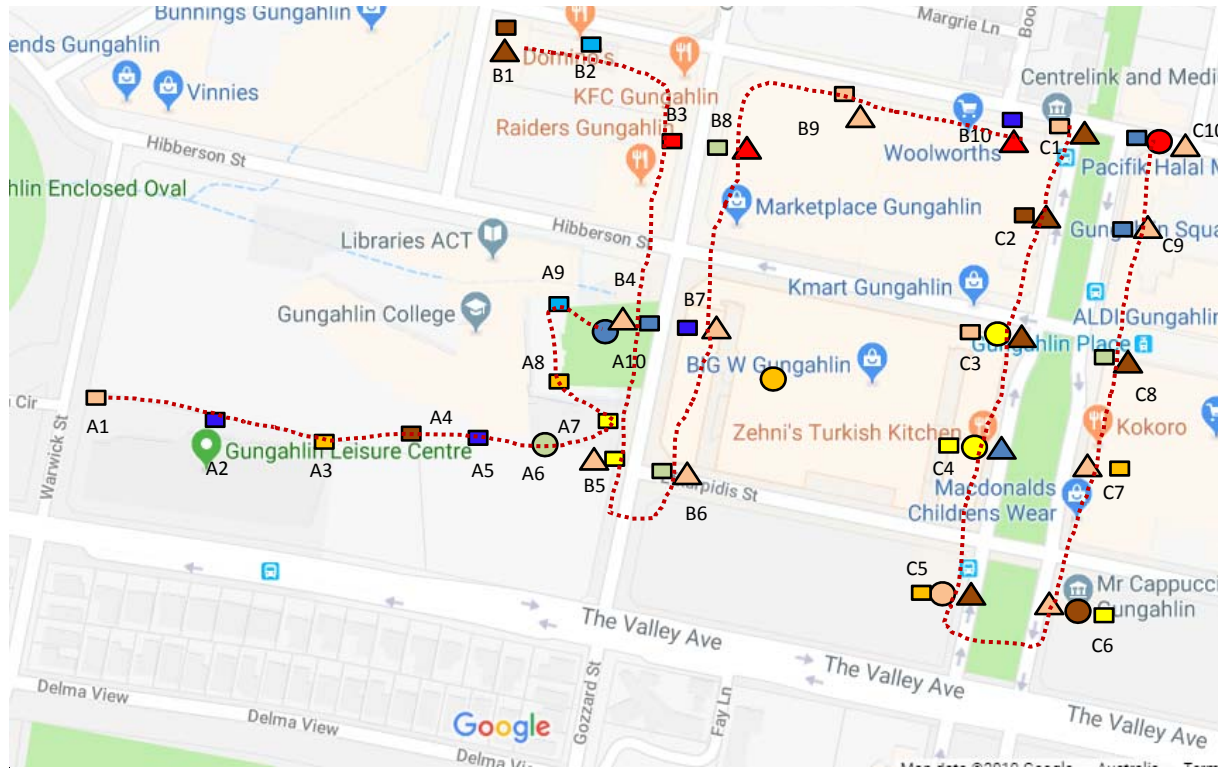
The air temperature, relative humidity, globe temperature, wind speed and surface temperatures were recorded at 30 locations. The map illustrates air temperature measured at each of the location numbered inside the circle. Please refer to the legend at the right-hand side of the map for the range of 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.



	Globe temperature (°C)	Air temperature (°C)	Relative Humidity (RH%)	Wind Speed (m/s)	Surface temperature (°C)		
					Sidewalk	Grass	Street
Max	28.2 (Location B1)	25.3 (Location C1)	31.7 (Location A1)	6.8 (Location B6)	56.6 (Location B3)	35 (Location A6)	58.4 (Location 3)
Min	21.9 (Location A1)	21.7 (Location B8)	25.4 (Location B1)	0.2 (Location A7)	17.2 (Location A2)	24.2 (Location A10)	47.8 (Location B7)

Performance of surface materials

Surface measurements at each Locations was 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 whether 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 shows the summary of the surface temperature measurements at various conditions. Please refer to the colour coded legend at the right-hand side of the map for the range of temperature values.



Type of Material	Surface temperature (°C)		Surface temperature (°C)	
	Urban Layout		Greenery	
	Min	Max	Min	Max
Dry grass under sun	37 (Location C3)	58.7 (Location C10)	NA	
Street under sun	46.7 (Location C6)	58.4 (Location B8)	NA	
Footpath under sun	34.2 (Location B6)	56.6 (Location B3)	44.4 (Location A8)	54.3 (Location A4)
Street under shade	NA		NA	
Footpath under shade	18.7 (Location B10)	39.2 (Location C4)	17.2 (Location A2)	26 (Location A9)
Wet grass under shade	NA		24.2 (Location A10)	35 (Location A6)



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Measurement Data

No	Globe temperature (°C)	Air temperature (°C)	Relative Humidity (%)	Wind speed (m/s)
A1	21.9	22.4	30.3	2.4-3
A2	22	21.8	31.7	0.6-1.3
A3	22.4	23.5	28.3	1.2-2
A4	23.5	24.1	29	0.2-0.8
A5	23.6	23.1	29	0
A6	25.1	24.2	27	0.9-1.5
A7	24.2	23.2	28.4	0.1-0.2
A8	24	24	29	0.3-1.3
A9	23.7	24	27.4	0.1-1.4
A10	23.8	24	28.3	1-1.9

No	Globe temperature (°C)	Air temperature (°C)	Relative Humidity (%)	Wind speed (m/s)
B1	28.2	25.1	25.4	0-1
B2	24.3	22.3	28.7	1.1-2.3
B3	24.3	23	27.3	0.5-4.3
B4	24.9	23	27.6	0.3-3.7
B5	24.9	23.1	28.4	0.1-1
B6	24.6	22	29.2	2.5-6.8
B7	23.6	22.2	29.5	0-0.7
B8	24.5	21.7	29.7	1.1-4.7
B9	26.5	24	27	0.7-3
B10	24.5	23.8	26.2	0.6-2

No	Globe temperature (°C)	Air temperature (°C)	Relative Humidity (%)	Wind speed (m/s)
C1	26.3	25.1	26.6	1.8-3.5
C2	27.2	25.3	25.8	0.3-3.6
C3	26.8	24	25.8	0.9-3.3
C4	25.6	23.6	27.5	0-1.5
C5	27	24.7	26.5	0.4-2.2
C6	25.4	22.2	27.9	0.7-4.2
C7	26.1	23.9	26.6	1.2-1.8
C8	26.5	24.2	26.1	1.3-2.9
C9	26.1	23.4	25.9	1.6-3.8
C10	24.9	23.4	26.7	0.3-1.5



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