

Site name	Site code	Date of visit	OS X	OS Y	Latitude	Longitude	UTM
Crystal Palace 1	CY1	14/08/2007	529200	203027	51 42' 40N	0 07' 53W	30U 703323.82E, 5701041.51N

Satellite  
pictures

Date:  
12/05/2006 -  
24/10/2006

Local scale  
(100 m radius)



Meso Scale  
(1km radius)



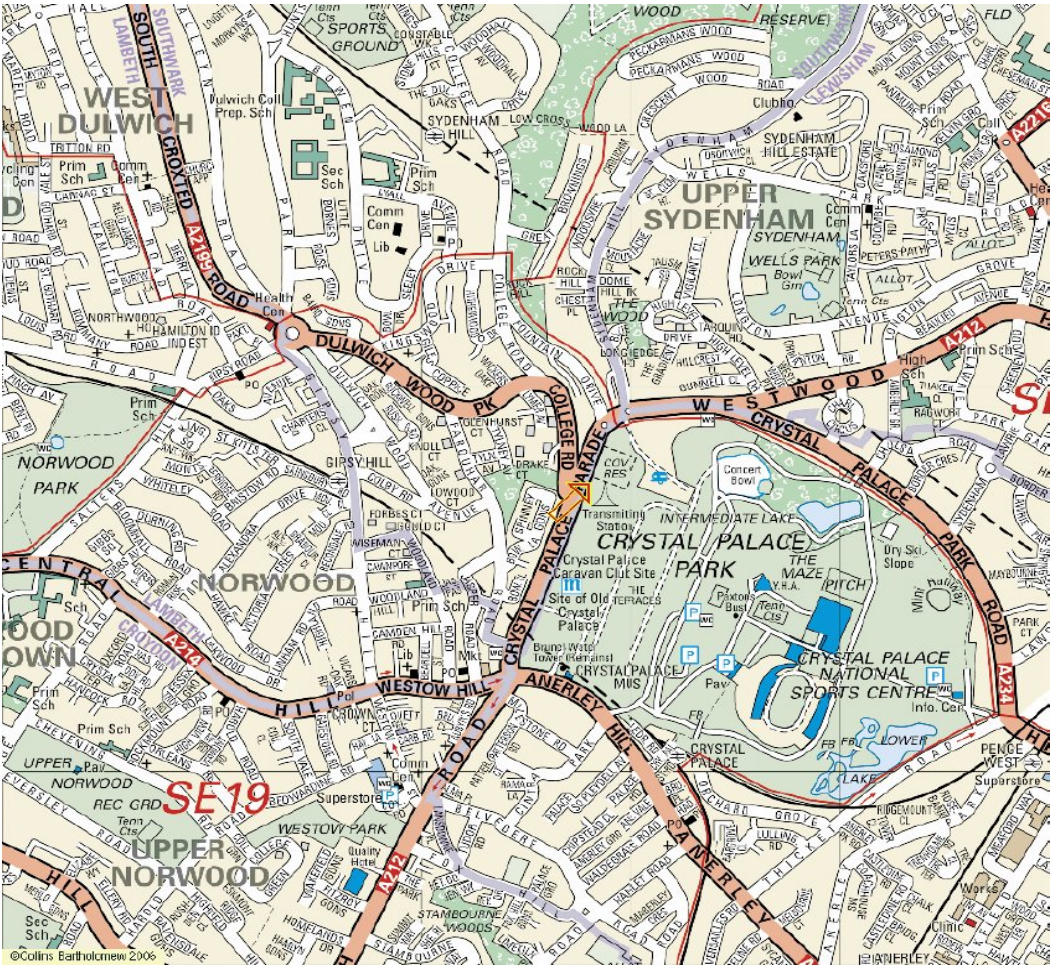


Street maps

Local scale  
(100 m radius)



Meso Scale  
(1km radius)





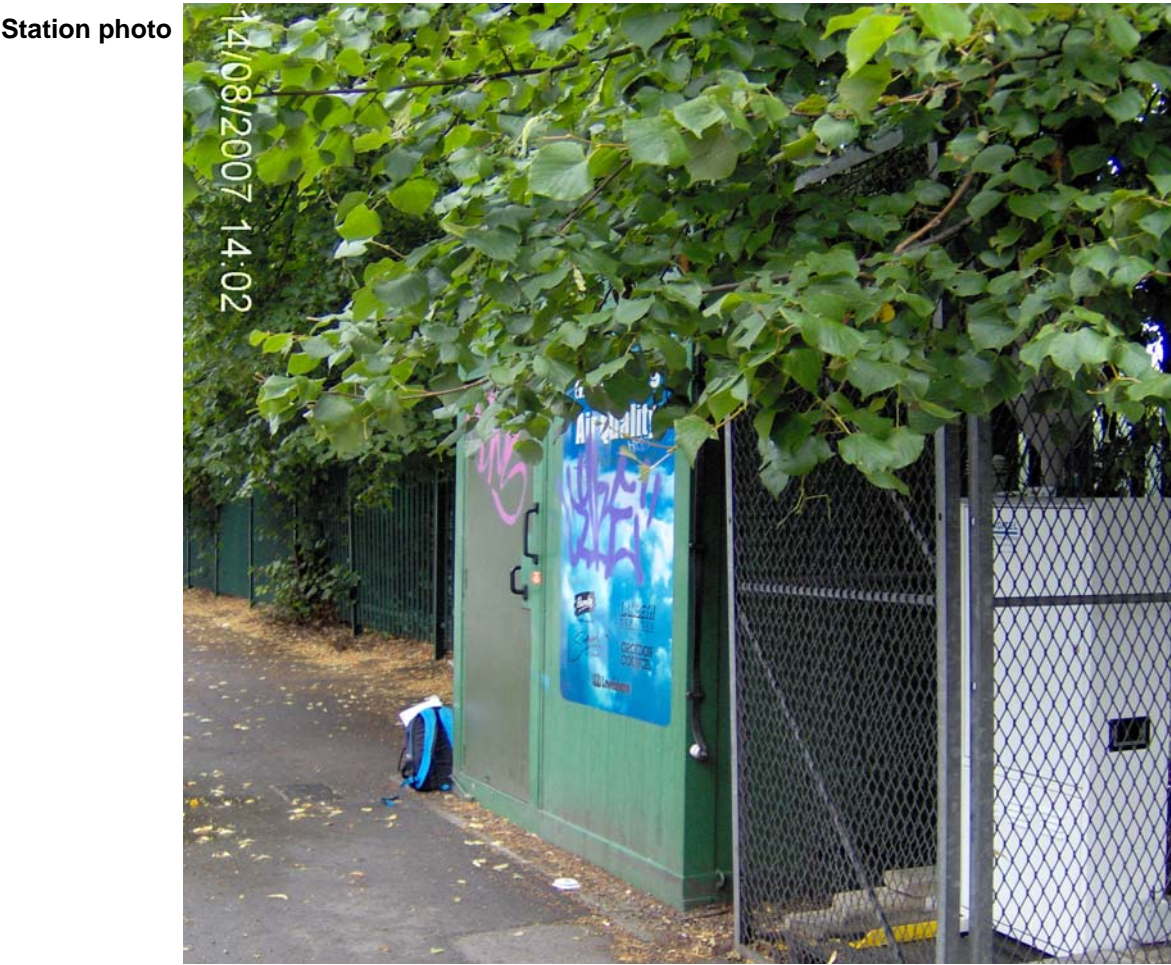
Site classification	LAQN Classification	Station Type
	Roadside	Urban Meteorological

Urban climate zone	Meso (1 km radius)	Local (100 m radius)	Micro (30 m radius)
	5	6	6

% Land cover		100 m	1 km
	Vegetated	68.98	54.75
	Built over	18.71	31.11
	Water	0	0.67
	Road	12.31	13.47

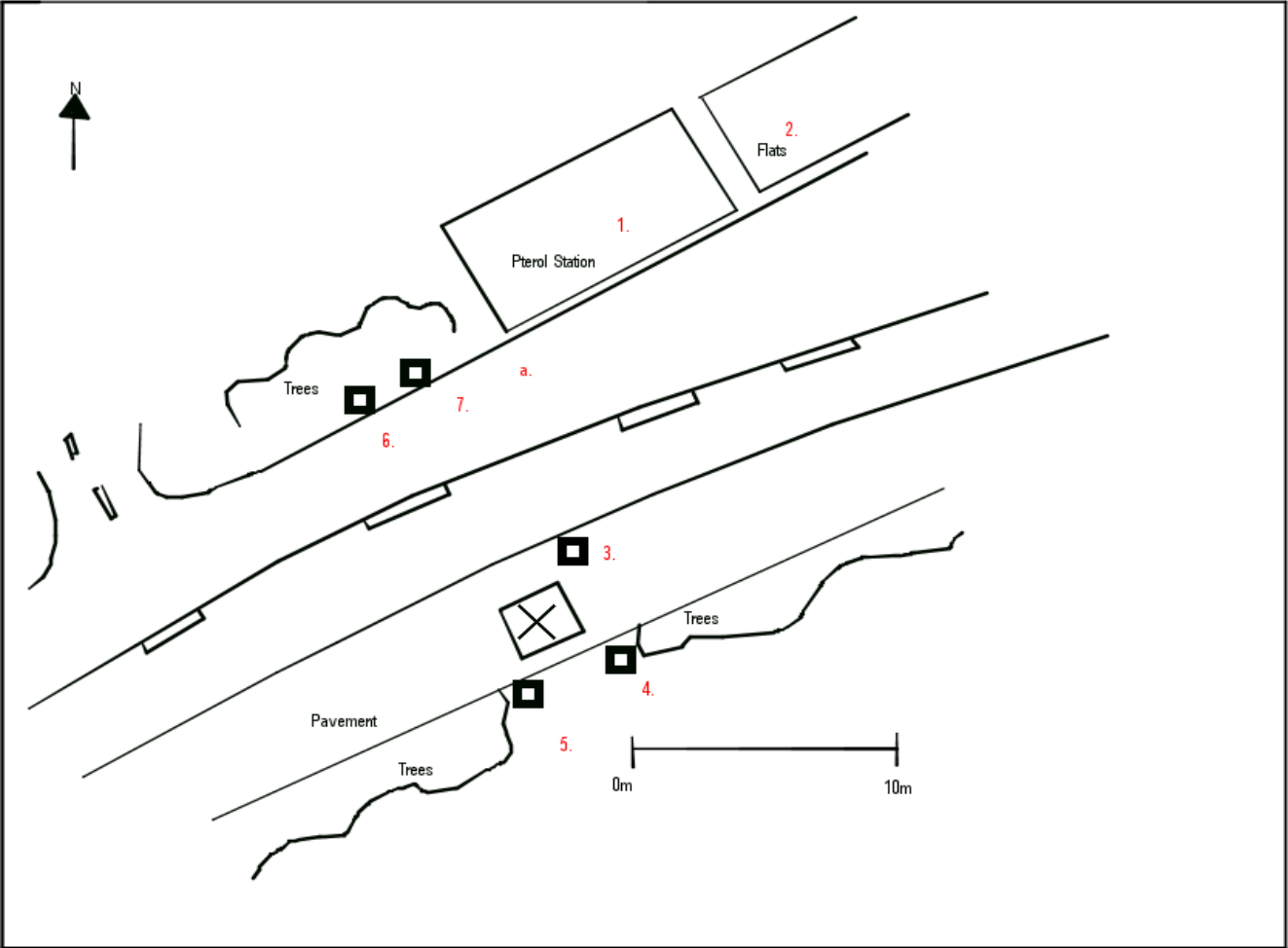
Main Land use	Direction	Land use (MAJOR / minor)
	N	FORRESTED/ residential
	E	GREEN SPACE/ residential
	S	GREEN SPACE/ residential
	W	RESIDENTIAL/ green space

Site description	Meso (1 km radius)	Local (100 m radius)	Micro (30 m radius)
	Medium density residential areas in all directions. Large areas of open green space.	Adjacent to main road and large park areas. Low density buildings beyond road.	Station shrouded by a row of tall trees, behind which is open greenspace (to East). To West is a busy road and lots of tall trees.








Plan view  
diagram  
(30 m radius)

KEY  
□ : Tree  
X : Station

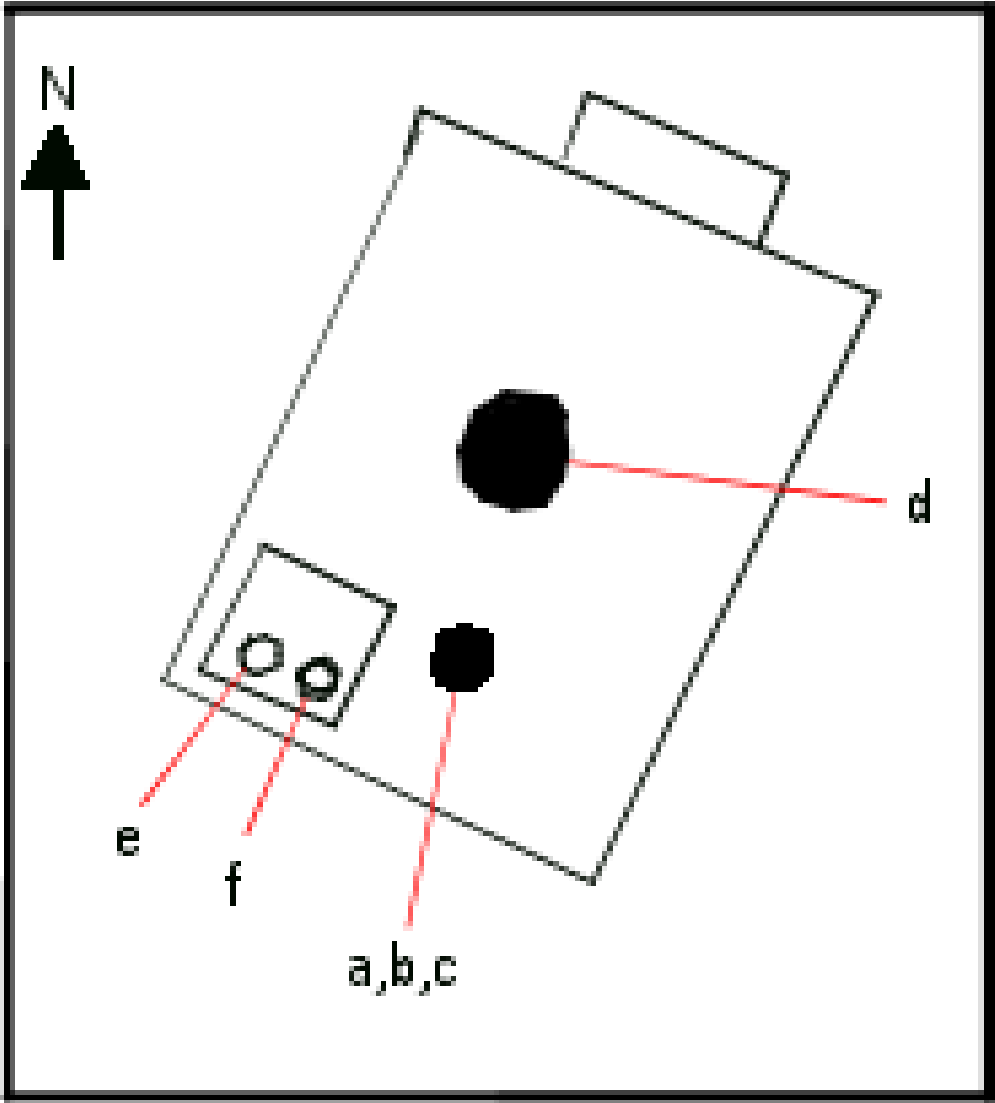


Site obstacles

Sketch key	Type	Detail	Wall material	Roof material	View from station
1	Petrol Station	N/a	N/a	Grey metal	
2	Flats	N/a	Light brown/red brick	Brown slate	
3	Tree	Deciduous	N/a	N/a	
4	Tree	Deciduous	N/a	N/a	Unavailable

5	Tree	Deciduous	N/a	N/a	Unavailable
6	Tree	Deciduous	N/a	N/a	
7	Tree	Deciduous	N/a	N/a	

Instrument  
diagram  
(Plan view)



Instruments	Sketch key	Name	Variable	True height (m)	Concerns
	a	Cup anemometer	Wind Speed	5.92	IMPORTANT CONCERN: Shrouded by taller trees, such as (4) & (5)
	b	Wind vane	Wind Direction	5.92	IMPORTANT CONCERN: Shrouded by taller trees, such as (4) & (5)
	c	Solarimeter	Solar radiation	4.53	Surrounded by the leaves of deciduous trees. In summer they would be light reflectors, in winter the solarimeter would be more exposed to direct sunlight.
	d	Rain Gauge	Rainfall	2.95	Similar to above, covered by leaves of deciduous trees.
	e	TEOM	Air Temperature	2.65	Leaves reflecting solar radiation could cause a heating effect.
	f	Sample Inlet/TEOM	Air Quality	3.05	N/a
	g	Air conditioning unit	N/a	On NE side of station	N/a



**Instrument  
image**



**Above:**  
*Instrument (d)*



**Above:**  
*Instruments (e) & (f)*

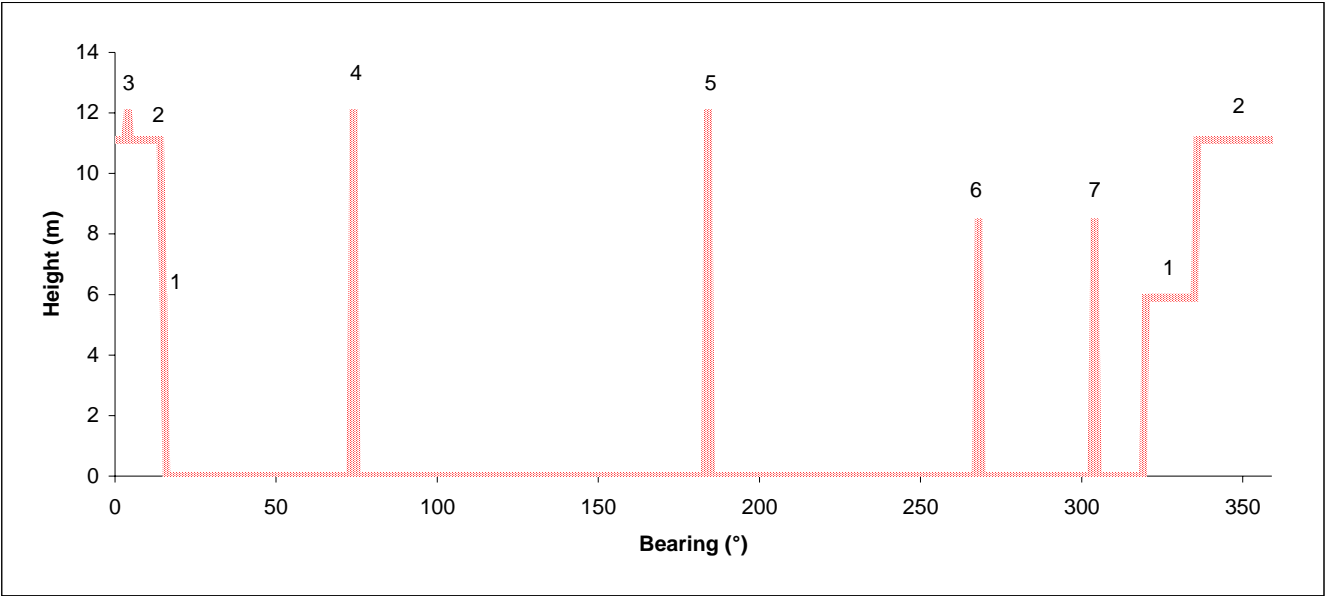


**Above:**  
*Instrument (c)*



**Above:** *Instruments (a) & (b) combined*

Graphs  
Height vs.  
bearing



Other  
influences

Heat sources	Bearing from site (°)	Source	Location	Detail
	240 - 70	Road	N/a	N/a
	N/a	Air conditioning unit	On top of station	N/a
	360	Tree leaves	N/a	Reflect solar radiation; surrounding solarimeter.

Traffic

Heavy traffic on road running from SW to NE.	Seasonal features	Summer: trees in full leaf and very overgrown. All major surrounding trees deciduous.	Temporary fixtures	N/a
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Task	Initial
Who visited the site	RW, KR
Who filed the report	KR, RE
Who produced the plots	RE

N.B. values  
given to 3  
s.f.