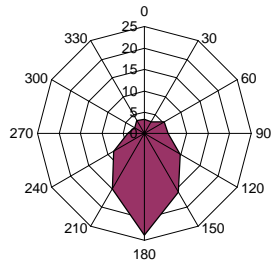


## Kruger Park Eddy Covariance Study - Wind Direction Distributions

The northerly and southerly fetch directions will sample Combretum and Acacia savanna ecosystems, respectively. We hope to obtain a representative sample from both systems at all times of day and in all seasons that will allow us to understand the physical and physiological processes driving the measured fluxes.

RAINY SEASON (Feb-Apr 2000)

Skukuza Tower Wind Directions

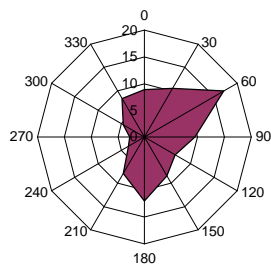


Wind Direction Distributions by Time of Day (%)

Time	Acacia (105-195)	Combretum (225-075)	Boundary (75-105,195-225)
06-10 Hrs Day Light	56.0	28.2	15.8
10-14 Hrs Day Light	46.0	33.8	20.2
14-18 Hrs Day Light	29.3	41.5	29.2
18-22 Hrs Dark	36.1	38.6	25.4
22-02 Hrs Dark	69.7	15.8	14.5
02-06 Hrs Dark	59.2	22.8	18.0
24 Hour Average	49.3	30.1	20.5

DRY SEASON (May-Jun 2000)

Skukuza Tower Wind Directions

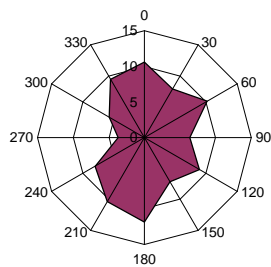


Wind Direction Distributions by Time of Day (%)

Time	Acacia (105-195)	Combretum (225-075)	Boundary (75-105,195-225)
06-10 Hrs Day Light	28.6	53.7	17.6
10-14 Hrs Day Light	33.6	53.7	12.7
14-18 Hrs Day Light	18.0	65.8	16.2
18-22 Hrs Dark	25.2	60.6	14.2
22-02 Hrs Dark	29.5	50.1	20.4
02-06 Hrs Dark	27.5	49.2	23.3
24 Hour Average	27.1	55.5	17.4

DRY SEASON (July-Sept 2000)

Skukuza Tower Wind Directions

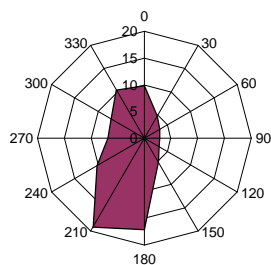


Wind Direction Distributions by Time of Day (%)

Time	Acacia (105-195)	Combretum (225-075)	Boundary (75-105,195-225)
06-10 Hrs Day Light	32.3	49.9	17.8
10-14 Hrs Day Light	26.7	61.0	12.4
14-18 Hrs Day Light	11.5	70.9	17.6
18-22 Hrs Dark	12.9	69.6	17.5
22-02 Hrs Dark	46.4	38.1	15.4
02-06 Hrs Dark	38.4	42.3	19.3
24 Hour Average	27.9	55.4	16.7

WET SEASON (Oct-Dec 2000)

Skukuza Tower Wind Directions



Wind Direction Distributions by Time of Day (%)

Time	Acacia (105-195)	Combretum (225-075)	Boundary (75-105,195-225)
06-10 Hrs Day Light	30.5	51.4	18.1
10-14 Hrs Day Light	19.2	61.5	19.3
14-18 Hrs Day Light	11.5	68.9	19.6
18-22 Hrs Dark	10.9	62.8	26.3
22-02 Hrs Dark	36.8	31.7	31.5
02-06 Hrs Dark	44.8	37.7	17.4
24 Hour Average	25.4	52.6	22.0