

Supplemental Information for "Sulphur Isotopes in the central Namib Desert ecosystem"
Soderberg et al., Transactions of the Royal Society of South Africa

This supplemental set of data includes all of the sample data depicted in Figures 2 and 3 as well as information for samples that did not have quantitated $\delta^{34}\text{S}$ values. It comprises four tables, one for each sample type: aerosols, soils, plants, and water.

Table S2: Soil Samples.

Location	Location Description	Sample Depth [cm]	Date Sampled	Longitude [decimal degrees]	Latitude [decimal degrees]	Ground Surface Elevation [mamsl]	$\delta^{34}\text{S}$ [‰]	Total S [mg/kg]	Total S Flag	Sample Number
Gobabeb	Dune	1 to 3	4-Jul-2008	15.012265	-23.565859	401	17.2	70	T	B87
Gobabeb	Dune	0 to 2	20-Oct-2007	15.018116	-23.562896	479	17.7	67		B27
Gobabeb	Dune	1 to 3	4-Jul-2008	15.018116	-23.562896	479	22.0	59	T	B88
Gobabeb	Dune	1 to 3	5-Jul-2008	15.018196	-23.563048	474	NQ	<64	U	B98
Gobabeb	Dune	0 to 2	20-Oct-2007	15.018270	-23.563883	467	15.6	41	T	B24
Gobabeb	Dune	1 to 3	4-Jul-2008	15.020251	-23.561799	471	NQ	<67	U	B93
Gobabeb	Dune	50 to 55	29-Jun-2008	15.020359	-23.561859	469	20.1	NA		B54
Gobabeb	Dune	1 to 3	4-Jul-2008	15.020359	-23.561859	469	NQ	<62	U	B91
Gobabeb	Interdune Valley	0 to 2	20-Oct-2007	15.035108	-23.564640	400	23.2	46	T	B25
Gobabeb	Interdune Valley	1 to 3	2-Jul-2008	15.035108	-23.564640	400	25.6	48	T	B70
Gobabeb	Kuiseb Riverbed	0 to 2	7-Oct-2007	15.036984	-23.561536	397	18.1	78	T	B14
Gobabeb	Kuiseb Riverbed	0 to 2	7-Oct-2007	15.036984	-23.561536	397	10.9	78	T	B6
Gobabeb	Kuiseb Riverbed	0 to 2	21-Oct-2007	15.037926	-23.562228	395	5.4	184		B31
Gobabeb	Kuiseb Riverbed	8 to 12	21-Oct-2007	15.037926	-23.562228	395	4.9	182		B32
Gobabeb	Kuiseb Riverbed	1 to 3	2-Jul-2008	15.037926	-23.562228	395	7.8	105		B69
Gobabeb	Kuiseb Riverbed	1 to 3	4-Jul-2008	15.037926	-23.562228	395	6.3	70		B80
Hope Mine	Gravel Plains	20 to 25	13-Jul-2007	15.258720	-23.571420	587	12.4 (11.1,13.6) ^a	97		B302
Hope Mine	Gravel Plains	50 to 60	13-Jul-2007	15.258720	-23.571420	587	16.5	116		B303
Hope Mine	Gravel Plains	100 to 110	13-Jul-2007	15.258720	-23.571420	587	14.7 (14.8,14.6)	177		B304
Hope Mine	Gravel Plains	20 to 25	10-Oct-2007	15.259960	-23.569830	594	17.2 (18.7,15.8)	158		B309
Ubib ¹	Gravel Plains Playa	20	20-May-2007	15.186211	-23.119736	582	15.2 (13.9,16.4)	35100		B313
Swartbankberg	Gravel Plains Inselberg	0 to 2	18-Dec-2007	14.810159	-23.318287	328	14.6	237		B42
Swartbankberg	Gravel Plains Inselberg	0 to 2	18-Dec-2007	14.812594	-23.320394	386	16.0	1420		B44
Swartbankberg	Gravel Plains Inselberg	0 to 2	18-Dec-2007	14.812843	-23.319219	361	17.7	191		B45
Swartbankberg	Gravel Plains Inselberg	0 to 2	18-Dec-2007	14.813155	-23.319070	354	12.3	293		B46
Swartbankberg	Gravel Plains Inselberg	0 to 2	18-Dec-2007	14.818315	-23.325624	356	15.6	98		B43

T = Trace (total sulphur of the analysed sample aliquot was between 2.15 and 3.43 ug)

U = Below detection (total sulphur of the analysed sample aliquot was below 2.15 ug)

NA = Total sulfur not determined

NQ = $\delta^{34}\text{S}$ not quantitated

1 - Gypsum sample collected with and identified by F. Eckardt; the location is a large playa approximately 4 km southwest of the Ubib East location of Eckardt and Spiro (1999)

mamsl = meters above mean sea level

a - The reported value is the mean of replicates shown in parentheses

Table S4: Water samples.

Sample Type	Location	Location Description	Date Sampled	Collection Method	Sample Depth	Longitude [decimal degrees]	Latitude [decimal degrees]	Ground Surface Elevation [mamsl]	$\delta^{34}\text{S}$ [‰]	Sample Number
Fog	Gobabeb	Gravel Plains	21-Jun-2009	Standard Fog Collector	2 m above ground	15.041311	-23.560845	409	16.0	Q303
Groundwater	Gobabeb	Kuiseb Riverbed	28-Jun-2009	Valve at well head	8 m below ground ¹	15.039036	-23.563258	397	10.5	Q308
Groundwater	Hope Mine	Gravel Plains	30-Jun-2009	Bailer	25 m below ground	15.260078	-23.570001	593	16.5 (16.5,16.6) ^a	Q309
Groundwater	Nara Valley	Interdune Valley	1-Jul-2009	Bailer	17 m below ground	14.954601	-23.509235	366	14.9	Q310

1 - Not measured directly because the well was pumping at an unknown intake depth. Depth shown is the depth to groundwater for Borehole 1 of Schachtschneider and February (2010)

mamsl = meters above mean sea level

a - The reported value is the mean of replicates shown in parentheses