Supplementary material

Table S1: The GPS coordinates of the FogNet (FN) and temporary stations used in the study.

Station name	**latitude**	**longitude**
Coastal MET_FN	-23.0563	14.625
Kleinberg_FN	-22.9893	14.7279
Soophies Hoogte_FN	-23.0068	14.8908
Marble koppie_FN	-22.9695	14.9897
Vogelfederberg_FN	-23.08	15.0289
Station 8_FN	-23.2653	15.05563
Aussinanis_FN	-23.4435	15.0459
Gobabeb_FN	-23.5603	15.0404
Station 1	-23.4719	14.97056
Station 2	-23.278	14.76598
Station 3	-23.0344	14.72111
Station 4	-23.0164	14.72389
Station 5	-23.5636	15.02222

Table S2: Isotopic characteristics of fog at each observation site on each day when fog was recorded. The dashes (-) indicate insufficient sample for analysis, n/a indicates no fog was recorded and (*) means the site was not yet established.

	10 June 2016		**17 June 2016**		**18 June 2016**		**19 June 2016**	
ID	$\delta^{18}O$‰	$\delta^{2}H$‰	$\delta^{18}O$‰	$\delta^{2}H$‰	$\delta^{18}O$‰	$\delta^{2}H$‰	$\delta^{18}O$‰	$\delta^{2}H$‰
MET	-0.50	-5.22	-0.80	-9.82	-0.60	+1.59	-	-
Kleinberg	+0.11	+0.58	-1.33	-14.70	-0.70	-0.13	-0.89	-2.95
S3	-0.26	-3.49	-0.87	-12.12	-0.83	-1.15	-1.03	-3.20
S4	-0.37	-3.78	-0.61	-11.92	-0.78	+0.31	-0.67	-2.35
SH	-0.83	-6.73	-2.31	-19.41	-1.92	-11.79	-1.30	-6.91
MK	+0.66	+1.85	+2.02	+7.48	-2.60	-18.33	-1.76	-10.23
VF	-0.11	-2.73	-3.60	-28.19	-4.45	-33.19	-1.99	-15.80
S8	-	-	n/a	n/a	-	-	-0.83	-7.51
AU	+3.03	+22.43	n/a	n/a	+3.94	+9.99	-0.90	-6.97
GBB	-0.76	-0.58	n/a	n/a	-1.31	-14.36	-1.72	-12.14
S5	*	*	n/a	n/a	-0.70	-12.78	-1.40	-13.32
S1	-0.24	-1.02	n/a	n/a	-1.85	-15.83	-1.57	-11.34
S2	-0.15	-1.27	n/a	n/a	-1.29	-8.91	-0.86	-5.52

Note: MET: Coastal MET, SH: Sophies Hoogte, MK: Marble Koppie, VF: Vogelfederberg, S8: Station 8, AU: Aussinanis, GBB: Gobabeb. S1-S5 are five temporary stations.

Table S3: Average air temperature (°C), soil temperature (°C) at 10 cm depth, relative humidity (RH %), dewpoint temperature (°C), wind speed (m/s) and median wind direction (**°**) during fog observation hours at each FogNet station on days with observed fog.

Date	Station	Air temp	Soil temp	RH	Dewpoint	Speed	Direction
10/6/2016	MET	12.2	17.5	100	12.2	1.1	259
	KB	12.6	17.8	100	12.6	1.2	302
	SH	12.5	18.5	99	12.3	1.4	245
	MK	12.4	17.8	98	12.0	1.3	206
	VF	12.4	15.3	98	12.1	2.1	104
	S8	13.6	16.8	94	12.6	2.2	122
	AU	13.5	16.5	95	12.6	2.1	175
	GBB	13.4	18.2	94	12.5	1.4	279
17/06/2016	MET	8.8	15.0	98	8.5	2.3	59
	KB	8.6	15.2	98	8.2	1.7	108
	SH	10.6	16.8	87	8.5	2.2	67
	MK	14.6	16.6	75	10.2	2.1	78
	VF	11.4	12.8	75	7.1	3.2	45
18/06/2016	MET	10.0	15.4	99	9.8	1.1	266
	KB	10.2	16.2	99	10.1	1.9	327
	SH	8.2	15.4	99	8.1	1.4	342
	MK	8.1	14.5	97	7.6	0.8	265
	VF	8.0	11.4	91	6.7	2.0	45

	S8	6.4	12.4	83	3.8	2.0	84
	AU	7.1	11.7	92	5.9	1.5	299
	GBB	7.7	14.5	90	6.1	1.0	115
19/06/2016	MET	9.3	14.3	97	8.9	1.9	171
	KB	8.7	14.5	99	8.6	1.6	142
	SH	8.3	15.5	99	8.1	1.3	289
	MK	7.3	14.0	99	7.1	1.1	268
	VF	7.1	11.0	98	6.9	1.7	226
	S8	6.4	12.2	96	5.9	1.8	61
	AU	6.5	11.7	98	6.2	1.7	323
	GBB	6.5	13.9	96	6.0	0.9	93

Note: MET: Coastal MET, KB: Kleinberg, SH: Sophies Hoogte, MK: Marble Koppie, VF: Vogelfederberg, S8: Station 8, AU: Aussinanis, GBB: Gobabeb. S1-S5 are five temporary stations.

Table S4: Fog yield in ml for each fog event observed over the sampling period. Two types of passive fog collectors were used: cylindrical for the FogNet (FN) stations with the exception of Gobabeb and flat 1 m^2 for Gobabeb and Stations 1-5 (in bold).

	Date			
Station name	**10th June**	**17th June**	**18th June**	**19th June**
Coastal MET_FN	100	405	7.5	<2
Kleinberg_FN	100	30	100	22
Soophies Hoogte_FN	100	6	75	52
Marble koppie_FN	150	2	43	76
Vogelfederberg_FN	250	2	4	100
Station 8_FN	n/a	0	<2	46
Aussinanis_FN	60	0	<2	46
Gobabeb	**missing**	**0**	**650**	**550**
Station 1	**2000**	**0**	**600**	**600**
Station 2	**1900**	**0**	**1270**	**340**
Station 3	**1000**	**1600**	**2360**	**560**
Station 4	**1800**	**2900**	**1640**	**670**
Station 5	**n/a**	**n/a**	**65**	**350**

Note: Because different types of collectors were used we cannot compare the yields between the different types of collectors.

Fig. S1: Surface water ponding at Vogelfederberg on the 10th June 2016. Evidence of recent rainfall activity on the 6th and 7th June 2016.

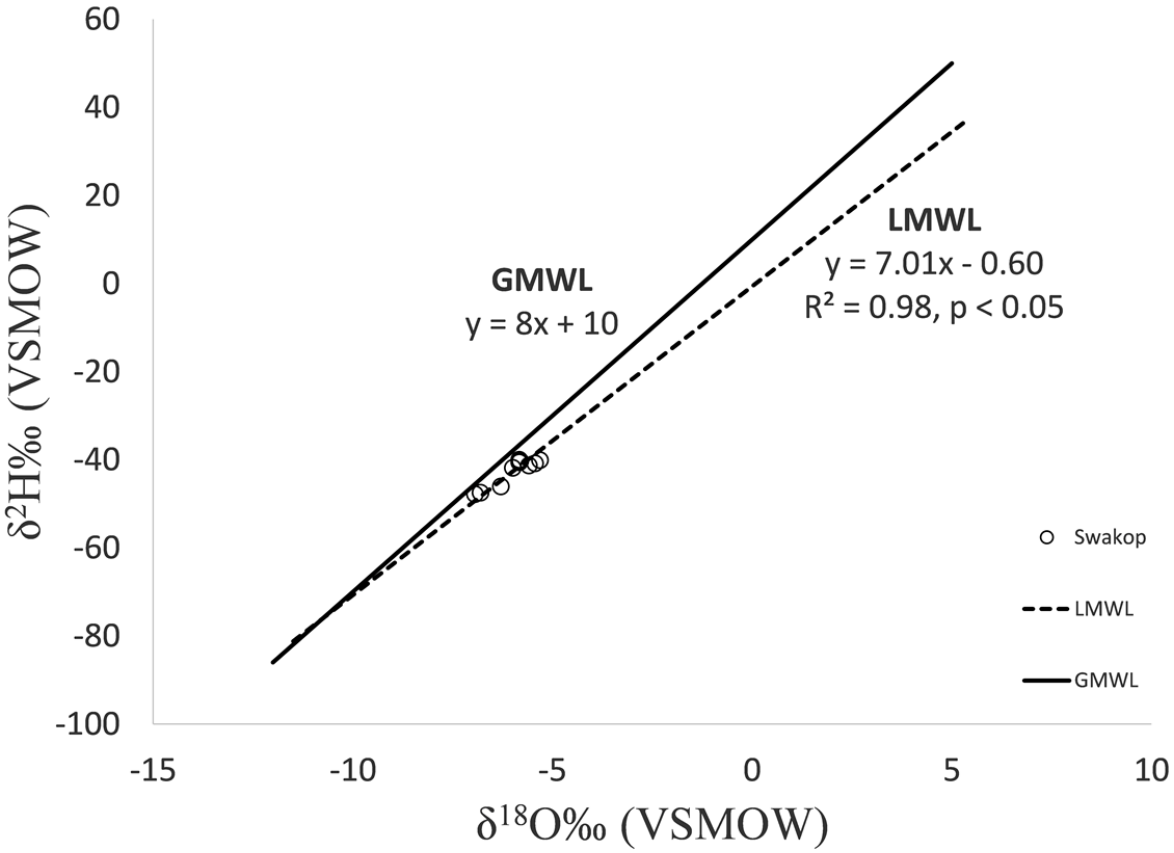

Fig. S2: The groundwater isotopic composition of the Swakop River and its relation to the Gobabeb local meteoric water line (LMWL). The GMWL is included as a reference, the LMWL is adapted from Kaseke et al. (2017) and the Swakop River isotopic composition is from Marx (2009).

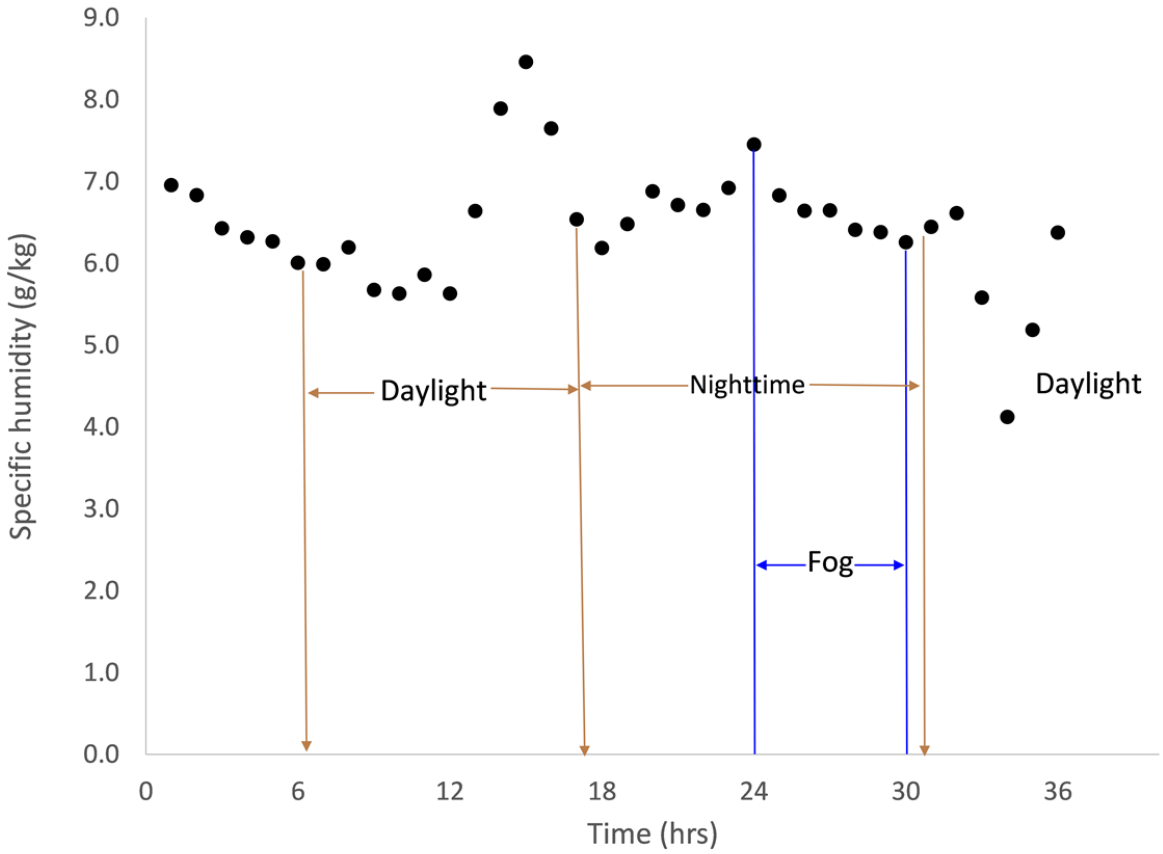

Fig. S3: Specific humidity changes at Vogelfederberg FogNet station with the fog hours for the 17th June 2016 fog indicated. The daylight (06:30 – 17:15 hrs) and nighttime hours are also indicated.