

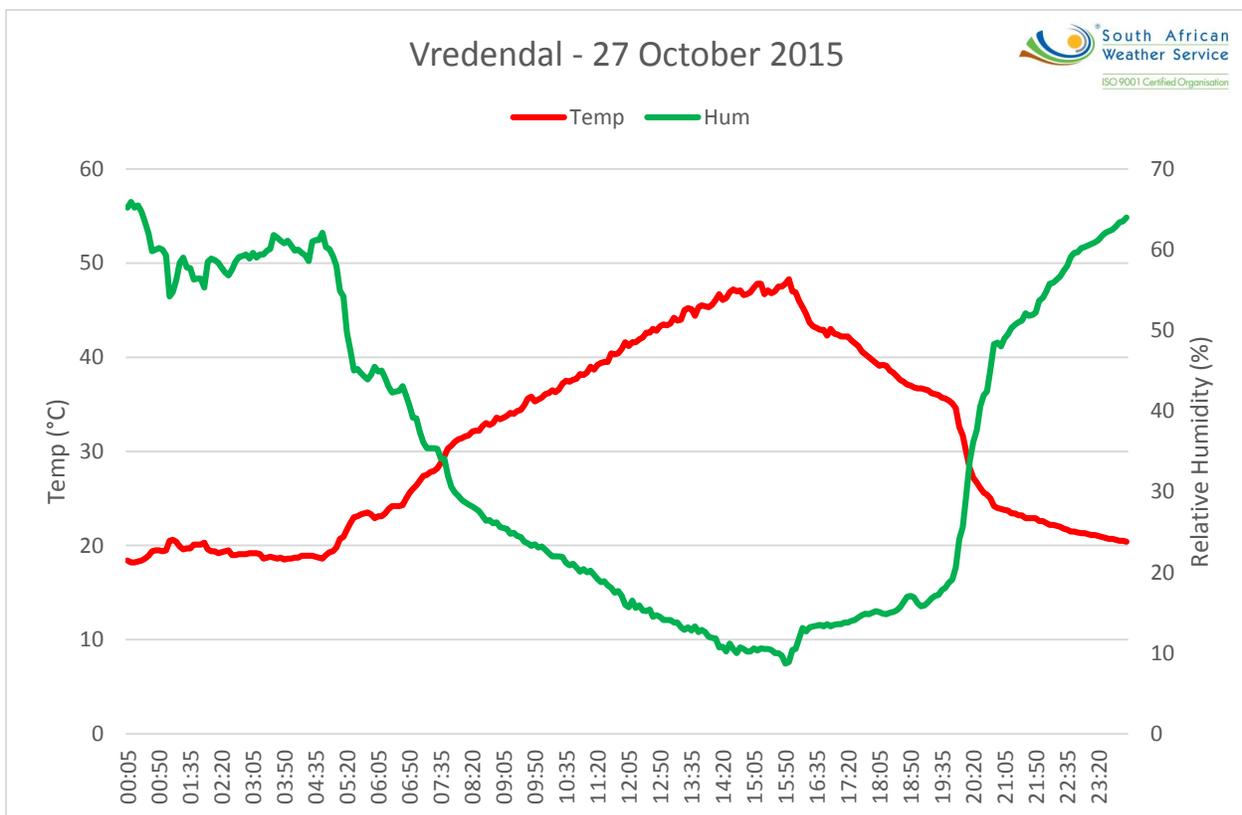
General Information

Maximum temperature record at Vredendal on 27 October 2015

NOTE: Following a thorough verification process it became clear that the quality-control standard operation procedure (SOP) was not applied correctly, which resulted in the real maximum temperature record of 48,4 °C being removed. It was however recovered from the logger of the automatic weather stations (AWS) and reinstated on the national climate database. The information below was accordingly updated.

On Tuesday 27 October 2015 at 15:54 the temperature in Vredendal reached a new record high value of 48,4 °C. It exceeded the previous highest maximum temperature of 42,5 °C recorded at Vredendal on 30 October 1999.

We do realize the importance of performing a thorough verification of the data measured by the automatic weather station (AWS) at Vredendal in the Western Cape; however, a preliminary investigation of the 5-minute data recorded did not reveal any conspicuous reason to question the accuracy of the data recorded by the AWS before and on the day.

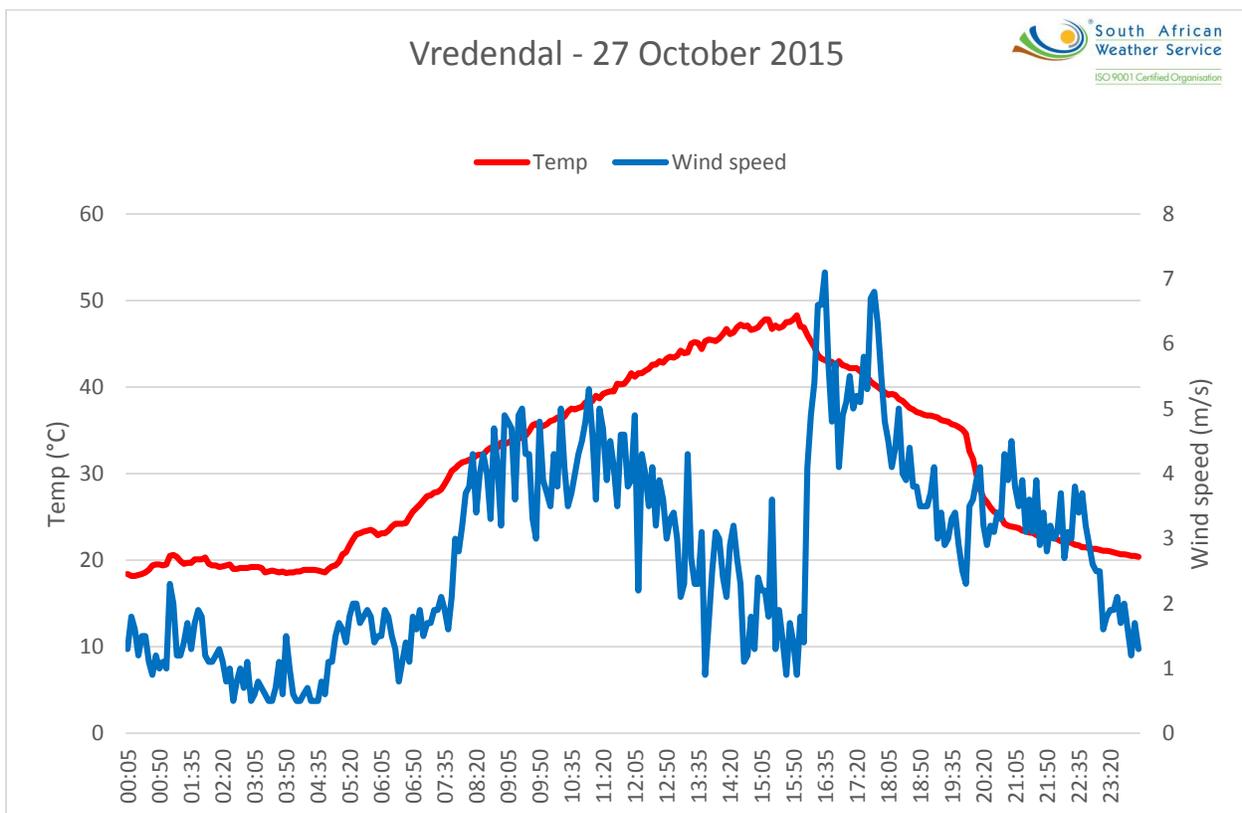


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According to preliminary data from our temperature monitoring network, at least 13 operational weather stations in the Western Cape (Vredendal, Redelinghuys, Wellington, Porterville, Malmesbury, Clanwilliam, Langgewens, Paarl, Robertson, Cape Town Royal Yacht Club, Jonkershoek, Atlantis, and SA Astronomical Observatory) and 5 in the Northern Cape (Violsdrif, Augrabies Falls, Niewoudtville, Sprinkbok and Calvinia) recorded new highest maximum temperature records on 27 October 2015, of which all were higher than 38 °C.

The synoptic situation that prevailed on the day caused berg-wind conditions over the western and south-western parts of South Africa. It is not uncommon for extremely high temperatures to occur during berg-wind conditions in South Africa. Furthermore, the relative calm conditions that prevailed in Vredendal throughout nearly the entire day were very conducive for the extremely hot conditions that developed.

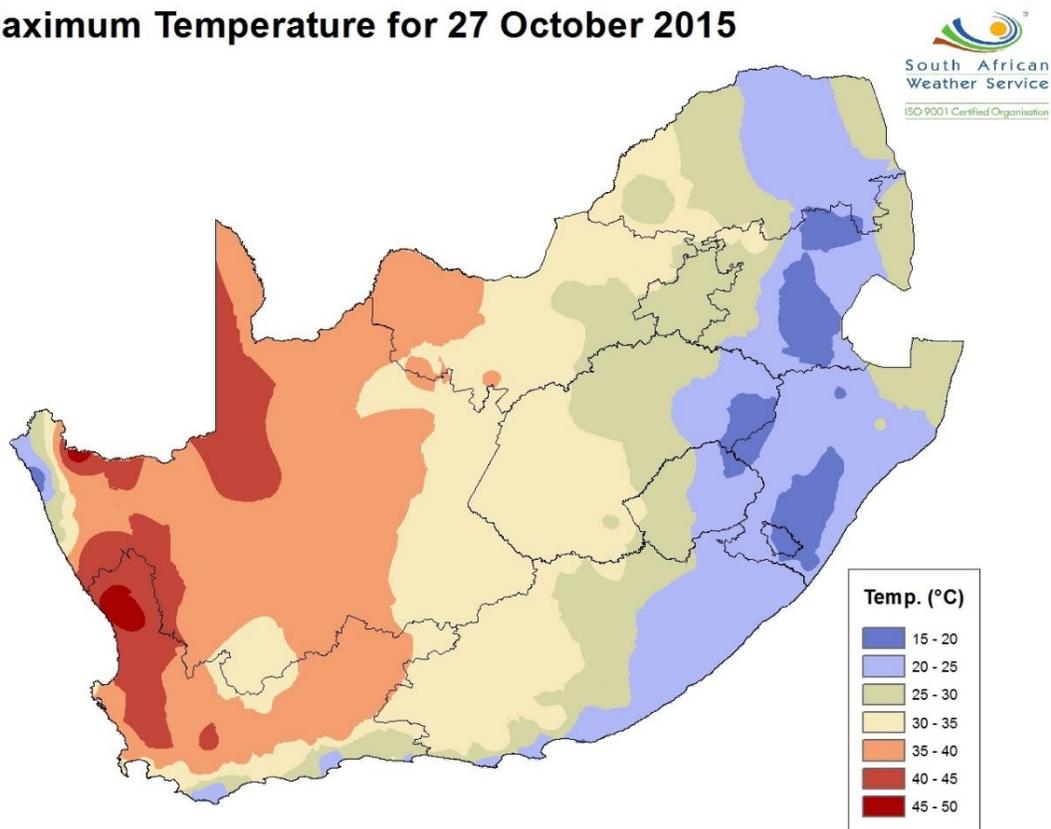


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The extremely high maximum temperatures that occurred over the Northern and Western Cape on 27 October 2015, are evident on the following map displaying the daily maximum temperatures that were recorded countrywide.

Daily Maximum Temperature for 27 October 2015



Following is a list of highest maximum temperature records that were recorded on 27 October 2015, of which 18 were above 38 °C.

#Parameter	Old	Old Date	New	New Date	No of years	Station	Prov
Highest Maximum	42.5	1999-10-30	48.4	2015-10-27	55	VREDENDAL	WC
Highest Maximum	39.8	2009-10-20	43.4	2015-10-27	7	REDELINGSHUYS-AWS	WC
Highest Maximum	41.4	1985-10-10	42.4	2015-10-27	52	WELLINGTON	WC
Highest Maximum	39.6	1999-10-30	42.4	2015-10-27	28	PORTERVILLE	WC
Highest Maximum	38.6	2014-10-05	41.8	2015-10-27	29	MALMESBURY	WC
Highest Maximum	40.6	2011-10-09	41.7	2015-10-27	15	CLANWILLIAM	WC
Highest Maximum	39.9	1985-10-10	41.5	2015-10-27	55	LANGGEWENS	WC
Highest Maximum	37.4	1999-10-30	41.2	2015-10-27	22	PAARL	WC

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Highest Maximum	39.5	1985-10-10	41.1	2015-10-27	53	ROBERTSON	WC
Highest Maximum	37.8	2003-10-12	40.3	2015-10-27	14	CAPE TOWN - ROYAL YACHT CLUB	WC
Highest Maximum	36.1	1985-10-10	39.3	2015-10-27	55	JONKERSHOEK	WC
Highest Maximum	38.1	2003-10-12	38.9	2015-10-27	36	ATLANTIS	WC
Highest Maximum	35.9	2003-10-12	38.2	2015-10-27	55	S A ASTRONOMICAL OBSERVATORY	WC
Highest Maximum	34	2003-10-12	35.7	2015-10-27	23	ROBBENEILAND	WC
Highest Maximum	33.4	1985-10-10	34.9	2015-10-27	54	CAPE POINT	WC
Highest Maximum	44.2	1999-10-30	46.9	2015-10-27	24	VIOOLSDRIF - AWS	NC
Highest Maximum	42.3	2014-10-26	43.5	2015-10-27	31	AUGRABIES FALLS	NC
Highest Maximum	36.9	2011-10-09	41.1	2015-10-27	6	NIEUWOUDTVILLE	NC
Highest Maximum	36.7	1997-10-01	38.4	2015-10-27	28	SPRINGBOK WO	NC
Highest Maximum	37.2	2000-10-12	38.2	2015-10-27	29	CALVINIA WO	NC

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