

Eglin Air Force Base and Duke Field Climate Summary December 2022

Mr. David Biggar
Staff Meteorologist, 96th Weather Squadron

December of 2022 was a month with greatly varying temperatures with periods of much above normal temperatures, and several periods with below normal temperatures, including an extended period with well below normal temperatures. From the 23rd through the 26th of the month, KVPS had well below normal temperatures, with minimum temperatures between 18 deg F and 23 deg F on four consecutive mornings. On the coldest day (the 24th) the temperature only remained above 32 deg F at KVPS for only about four hours. The longest stretch of below freezing temperatures during this period was from the 23rd at 22Z through the 24th at 19Z (a total of around 21 hours). At KEGI, the minimum temperatures were well below freezing for six consecutive mornings (minimum temperatures from the 23rd to the 28th of the month ranged from 16 deg F to 25 deg F). The temperatures at KEGI remained below freezing for 27 hours from the 23rd at 17Z through the 24th at 20Z (a total of around 27 hours). The maximum temperature at KEGI on the 24th was only 34 deg C, and the temperature only remained above freezing for less than three hours on the 24th.

Overall, for KVPS, the daily mean temperature was 56.2 deg F (13.4 deg C), which was 1.8 deg F below the recent 2011 to 2020 climo period mean daily temperature data. Over the long term (since 1940), December of 2022 tied with three other years as the 22nd warmest year on record. For precipitation, the total precipitation at KVPS was 3.91", which was 0.79" below normal for the month. For the year 2022, KVPS had a total of 51.35" of precipitation, which was 10.55" below the historical annual average since 1940. For the last four months of the year (September through December), the precipitation was below average each month. This below normal fall/early winter situation for precipitation was what we would expect for a La Nina year. During December there were three thunderstorm days during the month at KVPS, which is normal for the month.

For KEGI, the daily mean temperature was 54.7 deg F (12.6 deg C). For precipitation, KEGI had a total of 3.84" of rainfall during the month, only slightly less than the total December rainfall for KVPS. For the year, KEGI had a total of 60.02", which was about 8.5 inches more rainfall than KVPS had for the year. There were three days with thunderstorms reported during

the month at KEGI.

Daily temperature and precipitation records for KVPS and KEGI:

For KVPS, there was one maximum daily temperature record tied during the month. There were no daily minimum temperature or rainfall records tied or set during the month, despite the extremely cold minimum temperatures from the 23rd through the 26th of the month.

Daily Maximum Temperature Record for KVPS:

6 December 2022: The high temperature of 78 degrees F tied the record set in 1951.

For KEGI, there were no new daily maximum temperatures tied or set during the month. There were four new daily minimum temperature records set during the month and two daily minimum temperature records tied during the month. There was one daily precipitation record set during the month.

Record Daily Minimum Temperatures:

19 December 2022: 25 deg F, tied the previous record set in 2019.

24 December 2022: 17 deg F, broke the previous record of 28 deg F set in 2013.

25 December 2022: 20 deg F, broke the previous record of 27 deg F set in 2013.

26 December 2022: 16 deg F, broke the previous record of 23 deg F set in 2020.

27 December 2022: 25 deg F, tied the previous record set in 2020.

28 December 2022: 25 deg F, broke the previous record of 30 deg F set in 2009.

Record Daily Precipitation Records:

30 December 2022: 2.19" broke the previous record of 0.48" set in 1982.