

Lower Troposphere Temperature Anomaly - Source: UAH 6.0 T departure from 1991-2020 avg. Globe Lat. 90S - 90N

	january	february	march	april	may	june	july	august	september	october	november	december	year 10 yr
1979	-0.5	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	-0.4	-0.3	-0.2	-0.3	-0.2	-0.3
1980	-0.2	-0.1	-0.2	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.3	-0.3	-0.4	-0.2
1981	-0.2	-0.2	-0.3	-0.3	-0.3	-0.3	-0.2	-0.2	-0.3	-0.3	-0.3	-0.1	-0.2
1982	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.6	-0.4	-0.3	-0.4
1983	-0.1	-0.3	0.0	-0.0	-0.0	-0.3	-0.1	-0.1	-0.2	-0.3	-0.2	-0.4	-0.2
1984	-0.5	-0.4	-0.3	-0.4	-0.2	-0.3	-0.4	-0.3	-0.7	-0.2	-0.3	-0.4	-0.4
1985	-0.4	-0.6	-0.6	-0.4	-0.4	-0.5	-0.6	-0.4	-0.5	-0.6	-0.4	-0.4	-0.5
1986	-0.3	-0.5	-0.4	-0.3	-0.3	-0.3	-0.4	-0.4	-0.5	-0.5	-0.3	-0.2	-0.4
1987	-0.1	-0.1	-0.3	-0.0	-0.2	0.0	-0.1	-0.2	-0.2	-0.1	-0.1	0.3	-0.1
1988	0.0	-0.2	0.0	-0.1	-0.0	-0.1	0.0	-0.1	0.0	-0.2	-0.3	-0.3	-0.1
1989	-0.5	-0.4	-0.4	-0.3	-0.4	-0.4	-0.3	-0.3	-0.2	-0.3	-0.3	-0.2	-0.3
1990	-0.2	-0.4	-0.1	-0.2	-0.0	-0.0	-0.1	-0.2	-0.3	-0.1	0.1	0.0	-0.1
1991	-0.1	-0.1	0.1	-0.1	-0.0	0.2	0.0	0.0	-0.2	-0.4	-0.4	-0.4	-0.1
1992	-0.3	-0.4	-0.3	-0.4	-0.4	-0.3	-0.5	-0.6	-0.6	-0.4	-0.4	-0.4	-0.4
1993	-0.5	-0.4	-0.6	-0.5	-0.3	-0.2	-0.2	-0.3	-0.5	-0.3	-0.3	-0.1	-0.3
1994	-0.3	-0.4	-0.3	-0.3	-0.2	-0.1	-0.1	-0.2	-0.2	-0.4	-0.1	-0.0	-0.2
1995	-0.1	-0.2	-0.2	0.0	-0.1	0.0	-0.1	0.2	0.1	-0.1	-0.1	-0.3	-0.1
1996	-0.3	-0.2	-0.1	-0.2	-0.2	-0.2	-0.1	-0.1	-0.0	-0.1	-0.1	-0.2	-0.1
1997	-0.3	-0.3	-0.3	-0.4	-0.2	-0.2	-0.0	-0.0	-0.1	-0.1	-0.0	0.1	-0.1
1998	0.3	0.5	0.3	0.6	0.5	0.4	0.4	0.4	0.3	0.2	-0.0	0.1	0.3
1999	-0.1	0.0	-0.2	-0.1	-0.2	-0.3	-0.2	-0.2	-0.1	-0.2	-0.2	-0.2	-0.1
2000	-0.4	-0.2	-0.1	-0.1	-0.0	-0.1	-0.2	-0.2	-0.1	-0.1	-0.1	-0.1	-0.2
2001	-0.2	-0.1	-0.1	0.1	0.1	-0.1	-0.1	0.1	-0.2	0.0	0.0	0.0	-0.0
2002	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.0	-0.1	0.1	0.0	0.1
2003	0.2	0.1	0.0	0.0	0.1	-0.1	-0.1	-0.0	-0.0	0.1	0.0	0.3	0.1
2004	0.1	0.1	0.2	0.0	-0.1	-0.1	-0.4	-0.2	-0.2	-0.0	-0.1	-0.1	-0.1
2005	0.2	0.0	0.1	0.2	0.0	0.0	0.1	-0.0	0.1	0.1	0.1	-0.0	0.1
2006	0.0	0.0	0.0	-0.1	-0.2	-0.1	-0.0	0.0	-0.0	0.1	-0.1	0.1	-0.0
2007	0.3	0.0	0.1	0.0	0.0	0.0	0.1	0.1	-0.1	-0.0	-0.1	-0.2	0.0
2008	-0.4	-0.3	-0.3	-0.3	-0.4	-0.3	-0.2	-0.3	-0.2	-0.2	-0.1	-0.1	-0.2
2009	-0.0	-0.0	-0.1	-0.1	-0.2	-0.3	0.1	-0.1	0.1	0.0	0.1	-0.0	-0.0
2010	0.4	0.3	0.4	0.2	0.3	0.2	0.2	0.2	0.2	0.0	0.0	-0.0	0.2
2011	-0.2	-0.2	-0.3	-0.2	-0.1	0.0	0.1	0.0	-0.0	-0.2	-0.2	-0.1	-0.1
2012	-0.3	-0.4	-0.2	-0.0	-0.1	0.0	-0.1	-0.1	0.0	0.1	0.0	0.0	-0.1
2013	0.3	-0.0	-0.0	-0.1	-0.1	0.1	-0.1	-0.1	0.1	0.0	-0.1	0.0	-0.0
2014	0.1	-0.0	-0.0	-0.0	0.1	0.1	0.1	-0.1	-0.0	0.1	0.1	0.1	0.0
2015	0.2	0.0	0.1	-0.0	0.1	0.2	0.0	0.1	0.1	0.3	0.2	0.3	0.1
2016	0.4	0.7	0.6	0.6	0.4	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.4
2017	0.3	0.3	0.2	0.2	0.3	0.1	0.2	0.3	0.4	0.5	0.2	0.3	0.3
2018	0.2	0.1	0.2	0.1	0.0	0.1	0.2	0.1	-0.0	0.0	0.1	0.1	0.1
2019	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.4	0.3	0.4	0.4	0.3
2020	0.4	0.6	0.3	0.3	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.2	0.4
2021	0.1	0.2	-0.0	-0.1	0.1	-0.0	0.2	0.2	0.3	0.4	0.1	0.2	0.1

With averages over 10 years

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Lower Troposphere Temperature Anomaly - Source: UAH 6.0 T departure from 1991-2020 avg. USA Lower 48 States

	january	february	march	april	may	june	july	august	september	october	november	december	year
1979	-3.2	-1.8	-0.7	-0.7	-0.8	-0.6	-0.2	-0.7	0.6	0.2	-1.2	1.5	-0.6
1980	-0.7	-1.0	-1.2	-0.4	-0.5	-0.2	0.6	-0.1	0.1	-0.7	-0.1	1.3	-0.2
1981	0.1	0.1	-1.9	2.0	-0.8	0.6	0.2	-0.2	-0.3	-0.6	0.6	-0.3	-0.0
1982	-1.4	-0.6	-0.6	-1.4	-0.4	-1.4	-0.4	-0.2	-0.5	-0.6	-0.8	0.4	-0.6
1983	0.3	-0.3	-1.0	-2.7	-1.6	-1.2	0.2	0.9	-0.2	0.3	-0.3	-2.2	-0.6
1984	-0.6	-0.1	-1.2	-1.1	-0.2	-0.5	-0.3	0.0	-1.1	-0.9	-0.6	0.8	-0.5
1985	-1.6	-1.6	-0.2	0.5	0.3	-0.4	-0.3	-0.7	-1.1	-0.1	-0.7	-1.2	-0.6
1986	0.9	0.2	0.7	0.4	0.1	0.9	-0.3	-0.5	-1.4	-0.6	-0.0	-0.1	0.0
1987	-0.3	0.3	-0.4	0.5	0.6	0.5	-0.4	-0.5	-0.9	-0.7	0.2	0.3	-0.1
1988	-1.5	-1.4	-1.0	0.0	-0.1	1.1	0.2	0.5	0.3	-0.6	-0.4	-0.4	-0.3
1989	0.5	-1.0	0.6	0.3	-0.3	-0.5	0.0	-0.8	-0.2	-0.3	-0.2	-2.2	-0.3
1990	0.9 [-0.3]	0.0 [-0.4]	0.6 [-0.4]	0.0 [-0.1]	-1.0 [-0.3]	0.6 [-0.0]	-0.4 [-0.2]	-0.5 [-0.2]	0.5 [-0.5]	0.1 [-0.4]	1.5 [-0.1]	-0.4 [-0.5]	-0.29
1991	-1.0	1.5	-0.6	-0.2	0.6	-0.2	-0.2	-0.1	-0.3	-0.2	-1.0	0.8	-0.1
1992	0.3	0.6	-0.5	0.5	0.1	-0.7	-1.3	-1.3	-0.4	-0.2	-1.3	-0.3	-0.4
1993	-0.3	-1.4	-0.8	-1.2	-0.1	-0.7	-0.7	-0.5	-1.1	-0.8	-1.1	-0.3	-0.8
1994	-1.1	-1.1	0.2	0.4	0.1	0.8	-0.5	-0.2	-0.6	-0.3	0.1	1.3	-0.1
1995	-0.3	0.2	0.3	-1.1	-1.0	-0.7	-0.3	1.4	-0.4	0.0	-0.4	-0.2	-0.2
1996	-0.8	0.3	-1.4	-0.6	0.2	0.4	-0.1	-0.2	-1.2	-0.2	-0.7	-0.3	-0.4
1997	-0.6	-0.1	0.7	-1.8	-0.7	-0.2	-0.3	-0.2	0.7	-0.5	-1.2	-0.6	-0.4
1998	0.1	0.1	-0.9	-0.9	0.6	-0.4	0.8	0.6	1.5	0.5	0.7	0.7	0.3
1999	0.5	1.1	0.0	0.1	-0.3	-0.3	0.3	0.2	-0.6	0.5	1.9	0.6	0.3
2000	0.1 [-0.3]	1.4 [-0.3]	1.0 [-0.2]	0.6 [-0.4]	1.3 [-0.1]	0.2 [-0.2]	-0.3 [-0.3]	0.3 [-0.0]	0.2 [-0.2]	-0.4 [-0.2]	-1.8 [-0.5]	-1.5 [-0.0]	-0.15
2001	-0.2	-0.4	-1.0	0.4	0.4	-0.1	0.2	0.3	-0.3	-0.3	1.3	0.2	0.0
2002	0.5	0.4	-0.9	1.0	-0.6	0.5	0.5	-0.2	0.2	-1.5	-0.7	-0.4	-0.1
2003	0.5	-0.9	-0.2	0.1	0.1	-0.6	0.3	0.4	-0.5	0.9	-0.3	0.4	0.0
2004	-0.4	-0.6	1.3	0.1	0.3	-0.9	-0.8	-1.5	-0.1	-0.3	0.1	0.0	-0.2
2005	0.9	0.4	-1.1	-0.1	-0.7	-0.1	0.5	-0.0	0.5	0.6	0.6	-0.6	0.1
2006	1.4	-0.4	-0.6	1.5	0.2	0.2	0.6	0.0	-1.4	-0.8	0.3	0.8	0.1
2007	-0.0	-0.9	1.8	-0.1	0.4	0.1	0.2	0.9	0.2	1.1	0.3	-0.1	0.3
2008	-1.3	-0.0	-1.0	-0.4	-0.4	-0.5	-0.1	-0.2	-0.5	-0.1	-0.0	-0.4	-0.4
2009	0.2	0.0	0.2	-0.5	0.2	-0.6	-1.1	-0.5	-0.0	-1.2	0.8	-1.9	-0.4
2010	-0.5 [-0.1]	-2.2 [-0.5]	-0.2 [-0.2]	0.2 [-0.2]	-0.5 [-0.1]	0.6 [-0.1]	0.5 [-0.1]	0.9 [-0.0]	0.5 [-0.1]	0.1 [-0.1]	-0.2 [-0.2]	-0.8 [-0.3]	-0.06
2011	-1.0	-0.3	-0.2	0.1	-0.7	-0.1	0.9	0.7	-0.4	-0.3	-0.1	0.2	-0.1
2012	0.8	0.2	2.2	1.1	0.8	0.6	0.5	0.1	-0.3	-0.6	-0.2	-0.1	0.4
2013	0.7	-1.0	-1.2	-0.6	-0.3	0.2	-0.3	-0.3	0.6	-0.6	-0.2	-0.7	-0.3
2014	-0.6	-0.8	-0.5	0.0	-0.2	-0.3	-0.5	-0.5	0.2	0.8	-1.1	0.7	-0.2
2015	0.9	0.2	1.6	0.2	-0.4	0.9	-0.2	-0.2	0.6	1.2	0.8	1.4	0.6
2016	-0.6	1.0	1.1	0.6	-0.7	1.0	0.2	0.0	0.3	1.0	1.8	-0.1	0.5
2017	0.2	2.1	1.1	0.9	-0.0	0.3	0.4	-0.6	0.1	1.0	1.3	0.3	0.6
2018	0.5	0.8	-0.5	-0.1	1.8	1.0	0.3	-0.0	0.6	-0.0	-1.3	-0.0	0.3
2019	0.4	-0.2	-0.8	0.4	-0.7	-0.8	-0.0	0.1	0.9	-0.3	0.1	0.6	-0.0
2020	0.6 [-0.2]	0.2 [-0.2]	0.8 [-0.4]	-0.7 [-0.2]	0.1 [-0.0]	0.3 [-0.3]	0.4 [-0.2]	0.3 [-0.0]	0.7 [-0.3]	0.9 [-0.3]	1.5 [-0.3]	0.3 [-0.3]	0.21
2021	0.4	-0.7	0.6	-0.0	-0.4	1.4	0.6	0.3	0.7	0.8	0.5	1.6	0.5

With averages over 10 years

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	january	february	march	april	may	june	july	august	september	october	november	december	year
1979	-0.5	-0.4	-0.4	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	-0.2	-0.2	-0.4	-0.4
1980	-0.2	-0.1	-0.1	-0.1	-0.1	-0.0	-0.3	-0.4	-0.3	-0.3	-0.4	-0.4	-0.2
1981	-0.5	-0.4	-0.4	-0.3	-0.3	-0.4	-0.5	-0.5	-0.3	-0.2	-0.2	-0.3	-0.4
1982	-0.3	-0.4	-0.3	-0.4	-0.3	-0.3	-0.5	-0.5	-0.5	-0.6	-0.3	-0.1	-0.4
1983	0.4	0.3	0.5	0.3	0.2	-0.0	0.1	-0.1	-0.2	-0.3	-0.3	-0.5	0.0
1984	-0.6	-0.4	-0.2	-0.3	-0.4	-0.5	-0.7	-0.4	-0.7	-0.3	-0.4	-0.4	-0.4
1985	-0.4	-0.6	-0.6	-0.6	-0.5	-0.6	-1.0	-0.6	-0.7	-0.5	-0.5	-0.4	-0.6
1986	-0.3	-0.6	-0.5	-0.3	-0.4	-0.3	-0.6	-0.3	-0.4	-0.2	-0.2	-0.1	-0.3
1987	0.0	0.0	0.0	0.2	-0.1	0.3	0.2	0.2	0.2	0.3	0.4	0.5	0.2
1988	0.2	0.1	0.4	-0.0	0.1	-0.3	-0.2	-0.1	-0.1	-0.3	-0.5	-0.8	-0.1
1989	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.5	-0.4	-0.4	-0.2	-0.4	-0.6
1990	-0.3 _{-0.2}	-0.4 _{-0.3}	-0.3 _{-0.2}	-0.1 _{-0.2}	-0.1 _{-0.3}	-0.1 _{-0.3}	-0.3 _{-0.4}	-0.2 _{-0.3}	-0.3 _{-0.3}	-0.1 _{-0.3}	0.0 _{-0.2}	-0.1 _{-0.3}	-0.2 _{-0.28}
1991	0.1	0.0	0.1	-0.1	0.1	0.2	-0.1	-0.2	-0.1	-0.6	-0.5	-0.3	-0.1
1992	-0.3	-0.2	-0.0	-0.0	-0.2	-0.1	-0.5	-0.4	-0.5	-0.4	-0.6	-0.4	-0.3
1993	-0.5	-0.6	-0.5	-0.3	-0.2	-0.1	-0.2	-0.3	-0.4	-0.1	0.0	0.1	-0.2
1994	-0.1	-0.2	-0.3	-0.2	-0.2	-0.2	-0.2	-0.3	-0.1	-0.3	-0.1	0.1	-0.2
1995	0.1	-0.1	-0.0	0.2	0.0	0.2	-0.0	0.2	0.1	-0.0	-0.1	-0.3	-0.2
1996	-0.4	-0.2	-0.0	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.1	-0.3	-0.3	-0.1
1997	-0.4	-0.4	-0.4	-0.4	-0.2	-0.1	0.3	0.2	0.3	0.2	0.2	0.6	-0.0
1998	1.0	1.1	1.0	1.1	0.9	0.5	0.3	0.3	0.2	0.2	-0.0	-0.1	0.5
1999	-0.3	-0.4	-0.3	-0.3	-0.5	-0.5	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.1
2000	-0.4 _{-0.1}	-0.6 _{-0.1}	-0.5 _{-0.1}	-0.4 _{-0.1}	-0.3 _{-0.1}	-0.4 _{-0.1}	-0.4 _{-0.1}	-0.2 _{-0.1}	-0.3 _{-0.1}	-0.0 _{-0.1}	0.0 _{-0.2}	-0.1 _{-0.1}	-0.3 _{-0.11}
2001	-0.3	-0.2	-0.3	-0.0	-0.1	-0.3	-0.1	0.1	-0.2	0.1	0.0	0.0	-0.1
2002	-0.1	0.0	0.0	-0.1	0.1	0.1	0.3	0.1	0.0	0.0	0.1	0.3	0.1
2003	0.3	0.4	0.1	0.1	0.1	-0.2	-0.0	0.0	-0.0	0.2	0.2	0.2	0.1
2004	0.2	0.1	0.2	-0.0	-0.1	-0.3	-0.4	-0.1	-0.3	0.0	0.1	0.1	-0.0
2005	0.2	0.4	0.3	0.3	0.0	0.2	0.1	0.1	0.1	-0.0	0.1	-0.0	0.1
2006	-0.1	0.1	-0.2	-0.2	-0.3	-0.2	0.1	0.0	-0.1	0.2	-0.0	0.2	-0.0
2007	0.4	0.2	0.0	-0.0	0.0	0.0	0.1	-0.1	-0.1	-0.2	-0.2	-0.4	-0.0
2008	-0.4	-0.6	-0.7	-0.6	-0.6	-0.4	-0.3	-0.3	-0.2	-0.1	-0.1	-0.2	-0.4
2009	-0.3	-0.2	-0.3	-0.1	-0.2	-0.1	0.2	0.2	0.3	0.2	0.3	0.3	0.0
2010	0.5 _{0.1}	0.7 _{0.1}	0.7 _{-0.0}	0.6 _{-0.0}	0.7 _{-0.0}	0.3 _{-0.1}	0.1 _{-0.0}	0.1 _{0.0}	-0.0 _{-0.0}	-0.1 _{0.0}	-0.3 _{0.0}	-0.5 _{-0.0}	0.2 _{-0.00}
2011	-0.6	-0.6	-0.6	-0.4	-0.2	-0.1	-0.1	-0.0	-0.1	-0.3	-0.2	-0.2	-0.3
2012	-0.3	-0.5	-0.4	-0.4	-0.3	-0.3	-0.1	-0.1	-0.0	0.0	0.1	0.1	-0.2
2013	0.3	0.1	0.1	0.1	-0.1	-0.0	-0.2	-0.2	-0.0	-0.2	-0.2	-0.1	-0.0
2014	-0.2	-0.2	-0.1	-0.0	0.0	0.3	0.2	-0.1	-0.0	0.0	0.1	0.1	0.0
2015	0.0	-0.2	-0.1	-0.0	0.1	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.2
2016	0.8	0.9	1.0	0.8	0.6	0.2	0.3	0.4	0.2	0.3	0.3	0.1	0.5
2017	0.1	0.0	0.0	0.1	0.3	0.3	0.3	0.3	0.4	0.3	0.1	0.1	0.2
2018	-0.2	-0.1	-0.0	-0.2	-0.1	-0.0	0.1	-0.0	0.1	0.2	0.3	0.2	0.0
2019	0.3	0.3	0.3	0.4	0.3	0.5	0.3	0.3	0.4	0.2	0.4	0.4	0.3
2020	0.5 _{0.1}	0.6 _{0.0}	0.5 _{0.1}	0.3 _{0.1}	0.5 _{0.1}	0.3 _{0.2}	0.3 _{0.1}	0.4 _{0.1}	0.3 _{0.2}	0.2 _{0.1}	0.2 _{0.2}	-0.1 _{0.1}	0.4 _{0.11}
2021	-0.1	-0.1	-0.3	-0.3	0.1	-0.1	0.1	0.1	0.1	0.3	0.1	0.0	-0.0

With averages over 10 years

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Lower Troposphere Temperature Anomaly - Source: UAH 6.0 T departure from 1991-2020 avg. Australia

	january	february	march	april	may	june	july	august	september	october	november	december	year 10 yr
1979	0.9	-0.3	0.2	-1.1	-1.1	-0.6	-1.2	-1.0	-0.8	-0.4	-0.1	-0.2	-0.5
1980	-0.3	0.8	0.3	-0.1	0.2	-0.1	-0.7	0.2	1.0	-0.4	0.2	-0.5	0.1
1981	0.1	0.4	-1.5	-0.1	-0.7	-0.8	-0.4	-0.5	0.5	-0.9	-0.6	0.4	-0.3
1982	0.3	-0.1	-0.2	-0.9	-0.4	-0.9	-1.5	0.2	-1.6	-1.3	-0.1	-0.7	-0.6
1983	-1.1	-0.0	-0.2	-1.1	0.3	-0.6	-1.3	-0.7	0.6	-0.2	-0.2	-0.6	-0.4
1984	-1.2	-0.6	-0.6	-0.6	-0.6	-0.1	-1.3	-0.9	-2.3	-0.2	0.1	0.3	-0.7
1985	-0.5	-0.2	-0.1	-0.2	-1.0	-0.8	-0.4	-0.5	-1.2	-1.4	-0.2	-0.2	-0.6
1986	-0.6	-0.3	0.2	-0.2	-0.1	-0.6	-1.6	-1.1	-0.4	-1.5	0.1	-0.5	-0.5
1987	-0.0	-0.4	-1.4	0.1	-0.3	-0.5	-1.3	-0.6	-1.3	-0.4	0.1	0.2	-0.5
1988	-0.3	-0.5	-0.4	-0.1	0.6	0.4	0.3	-1.0	0.3	1.0	-0.3	0.3	0.0
1989	-1.4	-0.6	-0.3	0.3	0.5	-0.6	-1.6	-1.7	-0.2	-0.0	-0.8	-0.1	-0.5
1990	0.2 _{-0.5}	-2.0 _{-0.4}	0.6 _{-0.4}	-0.3 _{-0.3}	0.5 _{-0.1}	0.1 _{-0.4}	-0.7 _{-1.0}	-0.2 _{-0.7}	-0.9 _{-0.6}	-0.2 _{-0.5}	1.0 _{-0.1}	0.4 _{-0.0}	-0.43
1991	0.2	1.2	-0.1	-0.4	-0.4	0.9	-0.1	-0.0	-0.6	0.4	-0.3	-1.4	-0.0
1992	-1.4	-0.1	-0.1	-0.6	-0.3	-0.4	-0.2	-0.7	-1.1	-1.2	-1.3	-1.0	-0.7
1993	-0.7	-0.6	-0.7	0.0	-0.5	-0.2	0.1	-0.2	-1.1	-0.5	-0.0	-0.3	-0.4
1994	-0.2	-0.4	-1.1	-0.6	-0.1	-0.3	-0.0	-0.6	-0.9	-1.0	-0.4	0.0	-0.38
1995	-0.6	-0.5	-0.1	-0.4	-0.0	-0.5	-0.5	0.6	0.3	0.2	0.0	0.3	-0.1
1996	-0.5	-0.4	0.0	0.3	0.2	-0.1	-0.2	-0.3	0.4	0.4	-0.2	-0.0	-0.0
1997	-0.5	1.3	-0.2	-0.7	-0.2	-1.3	-0.8	-0.7	-0.6	-0.6	-0.3	0.6	-0.4
1998	0.5	0.5	0.3	0.4	1.5	0.1	-0.3	0.8	0.4	0.6	0.5	0.4	0.5
1999	0.8	-0.1	0.1	-1.1	0.4	-0.6	0.5	0.2	0.1	-0.2	-1.6	-0.7	-0.2
2000	-0.7 _{-0.3}	0.5 _{-0.1}	0.4 _{-0.1}	0.0 _{-0.3}	-0.1 _{-0.1}	-1.0 _{-0.3}	-0.3 _{-0.2}	-0.7 _{-0.2}	0.4 _{-0.3}	-0.2 _{-0.2}	0.0 _{-0.4}	0.2 _{-0.2}	-0.19
2001	0.2	0.9	-0.4	-0.2	-0.7	0.1	-0.7	0.4	-0.5	-0.9	-0.2	-0.4	-0.2
2002	-0.6	-0.3	-0.4	0.5	0.6	1.5	0.6	0.3	0.3	0.8	0.5	-0.4	0.3
2003	-0.1	0.0	-0.5	-0.3	0.8	-0.1	0.4	-0.4	0.7	-0.9	-0.0	0.7	0.0
2004	-0.3	0.8	0.4	-0.0	-0.3	1.4	-0.3	-0.2	-0.5	0.5	-0.3	-0.4	0.1
2005	0.1	-0.1	-0.1	1.3	0.4	-0.2	0.5	0.1	0.3	0.4	0.3	0.4	0.3
2006	0.7	-0.4	0.3	0.3	-0.8	-0.6	-0.1	0.8	0.2	0.3	0.6	-0.9	0.0
2007	-0.1	-0.1	0.7	0.3	0.6	-1.6	-0.0	0.7	0.5	0.4	-0.2	-0.1	0.1
2008	0.2	-0.7	-0.6	-1.1	-0.6	0.4	-0.6	-1.7	0.1	0.4	0.2	0.1	-0.3
2009	0.2	0.1	-0.1	-0.5	-0.9	-0.1	0.6	1.4	0.4	-0.5	0.6	0.3	0.1
2010	0.2 _{-0.1}	-0.4 _{-0.0}	0.1 _{-0.1}	0.6 _{-0.1}	0.0 _{-0.1}	-0.1 _{-0.1}	-0.5 _{-0.0}	-0.1 _{-0.1}	-0.6 _{-0.1}	-0.9 _{-0.0}	-1.0 _{-0.1}	0.0 _{-0.1}	-0.2
2011	0.5	-0.4	-0.3	-0.5	-0.8	0.0	-0.2	0.2	-0.2	-0.8	-0.2	-0.7	-0.3
2012	-0.8	-1.1	-0.2	-0.3	-0.8	-0.2	-1.1	-0.3	0.6	0.2	0.4	-0.0	-0.3
2013	0.9	-0.9	0.5	-0.1	0.4	0.1	0.2	0.8	0.8	0.8	-0.2	0.1	0.3
2014	0.5	-0.1	-0.5	0.5	0.3	0.4	0.3	-1.0	0.1	0.6	0.6	0.3	0.2
2015	-0.2	0.0	0.1	-0.6	0.0	0.4	-0.6	-0.4	-0.6	0.4	0.6	0.2	-0.1
2016	-0.8	0.4	0.5	0.9	1.3	0.9	0.9	0.1	-0.2	0.2	0.0	0.4	0.4
2017	1.1	0.3	1.0	0.4	0.2	0.3	0.8	0.7	0.4	0.7	-0.2	0.3	0.5
2018	0.3	0.3	0.6	0.6	-0.3	-0.6	1.1	0.1	-0.0	0.2	0.4	1.1	0.3
2019	0.9	-0.1	0.4	0.7	0.3	0.1	0.5	-0.0	0.3	0.2	0.2	0.8	0.4
2020	0.4 _{-0.3}	0.2 _{-0.1}	-0.0 _{-0.2}	0.8 _{-0.2}	-0.2 _{-0.0}	1.0 _{-0.2}	0.3 _{-0.2}	0.2 _{-0.0}	0.6 _{-0.2}	-0.0 _{-0.2}	1.3 _{-0.3}	0.1 _{-0.3}	0.4
2021	-0.5	-0.3	-0.8	0.3	0.0	-0.8	0.8	-0.0	0.4	0.1	-0.3	-0.1	-0.1

With averages over 10 years

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Lower Troposphere Temperature Anomaly - Source: UAH 6.0 T departure from 1991-2020 avg. Globe Land minus Ocean

	january	february	march	april	may	june	july	august	september	october	november	december	year 10 yr
1979	-0.2	-0.2	-0.2	-0.2	-0.2	-0.3	-0.4	-0.2	-0.2	-0.2	0.1	0.3	-0.2
1980	-0.3	-0.0	-0.3	-0.1	-0.1	-0.3	0.1	0.0	-0.1	-0.1	0.2	0.1	-0.1
1981	0.3	-0.1	-0.1	0.2	-0.2	-0.1	0.2	0.2	0.1	-0.2	-0.0	0.2	0.0
1982	-0.4	-0.4	-0.8	-0.2	-0.1	-0.5	-0.0	-0.2	-0.1	-0.2	-0.2	0.2	-0.3
1983	0.0	-0.2	-0.5	-0.5	-0.2	-0.4	-0.3	0.1	0.3	0.0	0.1	-0.2	-0.2
1984	-0.1	-0.3	-0.2	-0.3	0.1	-0.0	-0.2	-0.2	-0.3	-0.3	-0.2	-0.7	-0.2
1985	0.0	-0.2	-0.2	0.0	-0.1	-0.1	-0.4	0.0	0.0	-0.2	-0.4	-0.1	-0.1
1986	0.2	0.0	-0.1	-0.0	-0.1	-0.1	-0.3	-0.3	-0.2	-0.2	-0.4	-0.3	-0.2
1987	0.1	0.2	-0.4	-0.3	-0.4	-0.3	-0.1	-0.4	-0.1	-0.2	-0.2	0.0	-0.2
1988	-0.1	-0.4	-0.2	-0.0	-0.1	0.2	0.1	0.2	0.3	0.3	-0.1	0.2	0.0
1989	-0.2	-0.3	0.1	-0.1	-0.2	-0.3	-0.1	-0.2	0.1	0.1	-0.5	-0.1	-0.1
1990	-0.2	-0.2	0.2	-0.2	-0.1	-0.1	-0.1	-0.3	-0.2	-0.0	0.1	0.0	-0.1
1991	-0.3	0.1	-0.3	0.1	-0.1	0.0	0.1	0.1	0.1	-0.0	0.0	0.0	-0.0
1992	0.0	-0.0	-0.2	-0.3	-0.3	-0.3	-0.4	-0.2	-0.6	-0.2	-0.3	-0.1	-0.2
1993	0.0	-0.1	-0.1	-0.4	-0.3	-0.4	-0.2	-0.3	-0.3	-0.3	-0.5	-0.1	-0.2
1994	-0.2	-0.8	-0.2	0.0	-0.0	0.2	0.0	-0.0	0.0	0.1	0.1	-0.0	-0.1
1995	0.1	0.2	-0.1	-0.2	-0.3	0.0	0.3	0.3	-0.1	0.0	0.2	-0.3	0.0
1996	-0.4	-0.1	-0.5	-0.3	-0.1	-0.0	-0.0	-0.0	-0.3	-0.2	0.0	0.0	-0.2
1997	-0.1	-0.2	-0.2	-0.1	-0.4	-0.0	-0.2	-0.2	-0.1	-0.1	-0.2	-0.2	-0.2
1998	-0.5	0.2	-0.5	-0.2	0.0	0.1	0.1	0.1	-0.1	0.1	-0.1	0.1	-0.1
1999	0.2	0.4	-0.1	-0.1	0.0	0.2	0.1	0.1	0.2	0.0	-0.0	0.2	0.1
2000	-0.2	0.0	-0.1	0.4	-0.0	0.1	0.0	0.1	0.1	-0.3	-0.2	-0.1	-0.0
2001	0.1	-0.2	0.1	-0.1	0.2	0.1	0.1	-0.0	-0.1	-0.3	0.1	-0.2	-0.0
2002	0.2	0.2	0.2	-0.1	0.0	-0.1	0.1	-0.3	-0.1	-0.1	0.0	-0.4	-0.0
2003	0.3	-0.1	-0.2	-0.1	-0.1	-0.2	-0.1	-0.0	0.1	0.1	-0.5	0.3	-0.0
2004	-0.1	0.3	0.1	-0.1	-0.1	-0.2	-0.5	-0.3	-0.1	-0.2	0.1	-0.2	-0.1
2005	0.0	-0.4	-0.0	0.2	-0.1	0.1	0.0	-0.0	0.1	0.2	0.2	0.3	0.0
2006	-0.1	0.1	-0.0	-0.0	-0.1	0.1	0.0	0.1	0.0	-0.1	0.0	0.1	0.0
2007	0.4	-0.0	0.1	0.3	0.4	0.2	0.1	0.2	0.2	0.1	0.1	-0.0	0.2
2008	-0.3	-0.1	0.7	0.3	0.3	0.2	0.1	0.1	-0.0	0.3	0.2	-0.1	0.1
2009	0.1	0.3	0.1	0.0	0.0	-0.1	-0.2	-0.0	0.2	-0.3	0.1	-0.2	0.0
2010	0.2	-0.1	0.1	-0.0	0.0	-0.1	-0.1	0.0	-0.0	0.1	0.2	0.2	0.0
2011	-0.1	-0.3	-0.0	0.1	0.0	0.1	0.2	0.2	0.2	0.2	0.0	0.0	0.1
2012	-0.2	-0.1	-0.1	0.3	0.3	0.2	0.1	0.0	0.0	-0.1	0.2	-0.2	0.0
2013	-0.0	-0.0	0.1	-0.2	0.2	0.2	-0.0	0.2	0.3	0.3	0.3	0.1	0.1
2014	0.0	-0.3	-0.1	0.1	0.1	-0.2	-0.3	-0.0	0.1	0.1	-0.2	0.1	-0.0
2015	0.1	0.3	0.2	-0.1	0.0	0.0	-0.1	-0.3	-0.2	0.2	0.2	0.2	0.0
2016	0.0	0.3	0.3	0.2	0.0	-0.1	0.0	0.2	0.1	-0.2	0.1	0.0	0.1
2017	0.2	0.4	0.5	-0.0	-0.0	-0.0	0.0	-0.1	0.0	0.1	-0.1	0.3	0.1
2018	0.3	-0.1	0.3	0.3	0.3	0.2	0.3	0.2	-0.0	0.1	-0.2	0.1	0.2
2019	-0.1	-0.0	0.1	-0.1	-0.1	-0.2	0.1	-0.0	0.0	0.3	0.1	0.3	0.0
2020	0.1	0.2	-0.0	0.1	0.0	0.0	0.1	0.0	0.2	0.1	0.3	-0.2	0.1
2021	0.2	-0.1	0.2	-0.0	0.0	0.3	0.4	0.3	0.3	0.3	0.2	-0.0	0.2

With averages over 10 years

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Lower Troposphere Temperature Anomaly - Source: UAH 6.0 T departure from 1991-2020 avg. Arctic Area Lat. 60N - 90N

	january	february	march	april	may	june	july	august	september	october	november	december	year 10 yr
1979	-0.5	-2.0	-0.6	-0.8	-0.8	-0.8	-0.2	-0.3	-0.2	-0.2	-0.3	-0.5	-0.6
1980	0.5	1.4	-0.1	-0.7	-0.2	-0.3	-0.8	-0.0	-0.4	0.5	-1.3	-0.5	-0.2
1981	1.4	-0.2	-0.2	-0.2	-0.3	-0.4	-0.5	0.0	-0.3	0.2	0.3	-0.2	-0.0
1982	-1.2	0.2	-1.0	-0.9	-1.6	-0.9	-0.4	-0.7	-1.0	-1.1	-1.2	-0.5	-0.9
1983	-0.7	-0.4	0.0	-0.7	-1.2	-0.7	-0.3	-0.3	-0.3	-0.8	-0.2	0.1	-0.5
1984	-0.9	-0.5	-0.5	-1.5	-0.3	-0.0	0.0	-0.3	-0.2	0.1	-0.8	-0.5	-0.5
1985	0.6	-1.1	-1.6	-2.0	-0.7	-0.7	-0.9	-0.9	-0.3	-0.7	0.5	0.8	-0.6
1986	-0.8	0.2	-1.2	-1.2	-0.8	-0.4	-0.7	-1.1	-1.0	-0.5	-0.5	-1.0	-0.8
1987	-0.3	-0.9	-0.6	-0.9	-0.9	-0.8	-0.5	-0.6	-1.0	0.5	-1.0	-0.4	-0.6
1988	-0.6	0.1	-0.3	-1.6	-0.1	0.1	0.3	0.0	0.1	-0.3	-0.8	-0.2	-0.3
1989	-2.3	-0.3	-0.5	0.1	-0.8	-0.4	-0.1	-0.1	-0.1	-0.5	-1.0	0.0	-0.5
1990	-1.0	-1.5	-0.1	-0.4	-0.3	-0.1	-0.0	-0.2	-0.6	-1.0	-1.6	-1.0	-0.7
1991	-0.5	-0.2	-0.1	-0.6	0.1	-0.0	0.5	0.2	0.1	-0.6	-0.5	-0.9	-0.2
1992	-0.2	-0.4	-0.2	-1.7	-1.6	-1.1	-1.2	-1.2	-1.1	-1.1	-1.0	-0.8	-1.0
1993	-1.3	0.1	-0.9	-0.9	-0.1	-0.5	-0.1	-0.6	-1.1	-0.7	-0.8	-1.2	-0.7
1994	-1.1	-0.7	-1.0	-0.3	-0.5	-0.7	0.0	-0.2	-0.5	-0.4	-1.0	-0.6	-0.6
1995	0.3	0.3	-0.9	1.0	0.1	-0.1	-0.2	0.4	0.4	-1.1	0.8	-0.6	0.0
1996	0.3	-0.2	0.8	-0.3	-0.8	-0.8	-0.6	-0.9	-0.3	-0.5	0.9	-0.0	-0.2
1997	-0.9	-1.0	-0.2	0.1	-0.6	-0.2	-0.3	-0.1	0.3	0.0	-0.4	-0.7	-0.3
1998	-0.1	-1.5	-0.3	-0.1	-0.2	0.5	0.8	0.4	-0.2	-0.5	0.1	-0.0	-0.1
1999	-1.0	-0.3	-0.1	-0.2	-0.0	0.0	-0.1	-0.4	0.3	-0.4	-0.2	-0.6	-0.2
2000	-1.1	0.1	0.2	0.2	-0.5	-0.4	-0.0	-0.1	-0.5	0.0	0.2	0.0	-0.2
2001	-0.3	-0.3	-0.2	-0.4	-0.1	0.0	0.1	0.5	0.1	-0.7	-0.3	0.6	-0.1
2002	-0.1	-1.6	0.7	-0.6	0.3	0.0	-0.2	-0.3	-0.2	0.6	0.7	0.5	-0.0
2003	0.3	-0.2	0.2	0.1	0.1	-0.1	0.2	0.6	0.3	0.9	-0.6	0.3	0.1
2004	0.4	0.3	-0.1	0.2	0.2	-0.3	-0.3	-0.0	-0.4	-0.3	-0.4	-1.2	-0.2
2005	0.7	0.4	0.6	0.5	0.5	0.1	0.1	0.1	-0.5	0.3	0.7	1.0	0.4
2006	-0.1	0.6	0.5	-0.8	0.0	0.3	-0.1	0.1	1.0	-0.2	0.0	0.4	0.1
2007	-0.2	0.0	-0.1	1.0	-0.6	0.5	0.5	0.3	-0.6	0.3	-0.2	0.3	0.1
2008	-0.7	-0.4	-0.3	-0.3	0.4	-0.3	-0.1	0.1	0.0	-0.5	-0.3	0.3	-0.2
2009	0.3	-0.1	-0.3	-0.4	-0.3	-0.4	-0.3	-0.4	0.1	-0.1	-0.4	0.9	-0.1
2010	0.8	0.7	0.3	0.9	1.1	-0.1	0.4	0.6	0.3	0.4	0.3	0.6	0.5
2011	0.9	-0.8	0.2	-0.1	0.2	0.2	0.2	0.1	0.3	-0.2	-0.4	-0.6	-0.0
2012	-0.1	0.8	-0.3	0.6	0.5	1.2	0.2	-0.3	0.3	0.2	0.4	-0.1	0.3
2013	0.2	-0.3	-0.6	-0.7	-0.4	0.4	0.1	-0.1	-0.0	0.1	-0.8	0.2	-0.2
2014	0.6	1.0	0.5	-0.2	0.2	-0.3	0.0	0.1	-0.6	-0.2	0.7	0.1	0.2
2015	-0.2	-0.2	-0.1	0.1	0.2	0.1	-0.1	-0.4	-0.1	0.3	-0.4	-0.5	-0.1
2016	2.1	1.3	1.3	1.5	0.8	0.6	0.2	0.6	1.0	1.4	0.7	-0.1	0.9
2017	0.7	1.1	1.1	-0.1	-0.2	-0.2	-0.4	0.3	0.9	0.5	0.4	1.3	0.4
2018	1.0	0.9	-0.6	0.6	-0.2	0.5	0.1	-0.1	0.0	0.8	0.4	0.5	0.3
2019	-0.5	0.8	0.7	0.5	0.7	0.6	0.2	0.3	0.5	0.7	0.3	0.5	0.4
2020	-0.2	-0.3	-0.9	0.6	0.8	0.5	0.3	0.3	0.2	0.9	1.1	0.4	0.3
2021	0.5	0.1	-0.8	0.0	-0.0	0.6	0.4	0.8	0.0	0.6	-0.4	0.0	0.2

With averages over 10 years

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Lower Troposphere Temperature Anomaly - Source: UAH 6.0 T departure from 1991-2020 avg. Antarctic Area Lat. 60S - 90S

	january	february	march	april	may	june	july	august	september	october	november	december	year 10 yr
1979	-0.2	-0.8	-0.5	-0.3	0.1	-1.0	-0.9	-1.0	-0.1	-0.3	-0.8	0.7	-0.4
1980	0.6	0.5	0.9	1.3	0.7	-0.2	1.5	1.1	1.2	-0.8	-0.0	-0.8	0.5
1981	-0.5	0.2	1.0	-0.4	0.1	-0.0	1.0	1.1	0.9	-0.3	-1.4	-0.2	0.1
1982	0.2	-0.4	-1.2	-1.1	0.6	0.3	-0.1	-0.7	-1.0	-0.4	0.1	0.4	-0.3
1983	0.2	-0.3	-0.6	0.3	1.3	0.4	-0.8	-0.2	1.2	-0.8	-1.5	-0.9	-0.1
1984	0.2	-0.4	0.5	0.1	1.7	-0.9	-0.8	0.3	-0.3	-0.4	-0.6	0.8	0.0
1985	0.2	-1.3	-0.5	-0.0	-0.7	0.4	-0.4	0.1	-0.5	-0.6	-1.0	-1.2	-0.5
1986	-0.4	0.8	0.1	0.0	0.2	-0.4	0.3	-0.3	-0.6	-0.6	-0.1	-0.5	-0.1
1987	0.0	-0.0	-0.4	-0.5	-0.1	0.7	0.7	-0.8	-0.3	0.1	-0.6	-0.2	-0.1
1988	0.3	-0.7	0.2	0.4	0.2	0.6	0.3	0.8	0.9	0.7	-0.4	0.2	0.3
1989	-0.4	-0.1	-0.2	-0.3	-1.3	-0.8	0.2	0.3	0.6	0.2	-0.7	1.3	-0.1
1990	0.6 _{0.0}	-0.4 _{-0.2}	-0.7 _{-0.2}	0.3 _{-0.1}	0.6 _{0.3}	-0.5 _{-0.0}	2.0 _{0.2}	-0.6 _{0.0}	-0.4 _{0.1}	-0.2 _{-0.2}	0.0 _{-0.6}	0.5 _{0.0}	-0.07
1991	-0.4	0.5	-0.3	0.7	0.0	1.3	1.5	1.0	0.2	0.4	-0.3	1.0	0.5
1992	0.4	0.1	-0.0	0.0	0.8	0.8	0.6	0.1	-1.1	-0.3	-0.3	-0.2	-0.03
1993	0.4	-0.1	-0.4	-0.3	-0.7	-0.0	-0.2	0.3	-0.3	-0.2	-0.3	-0.8	-0.1
1994	-0.7	-0.9	-0.5	-0.1	-0.7	0.8	0.4	-1.0	0.5	-0.2	0.3	-0.3	-0.03
1995	-0.8	-0.3	-0.0	0.2	-0.5	0.2	1.3	0.5	-0.4	0.1	-0.6	-0.2	-0.1
1996	-0.4	0.0	0.1	0.6	-1.0	0.2	0.5	2.4	1.4	0.1	0.4	-0.0	0.4
1997	-0.2	-0.3	0.3	-0.4	-0.4	0.9	-0.6	-0.7	-0.9	-0.1	0.8	0.2	-0.1
1998	-0.2	0.6	-0.8	-0.7	0.9	0.9	-0.5	0.4	0.1	-0.7	-0.8	-0.5	-0.1
1999	-0.8	-0.1	-0.2	-0.9	-0.7	0.3	-0.1	-0.2	0.3	0.0	-0.6	-1.2	-0.3
2000	-1.4 _{-0.4}	-0.3 _{-0.1}	-0.4 _{-0.2}	-0.7 _{-0.2}	-0.1 _{-0.2}	0.6 _{0.6}	0.5 _{0.3}	0.0 _{0.3}	0.6 _{0.1}	-0.4 _{-0.1}	0.3 _{-0.1}	-0.4 _{-0.2}	-0.03
2001	-0.1	0.0	-0.1	-0.1	0.6	-0.1	0.4	-0.8	-0.5	-0.3	-0.8	-0.7	-0.2
2002	0.2	0.2	1.0	0.7	1.5	0.8	0.1	0.2	1.2	0.9	0.4	0.4	0.6
2003	0.7	0.5	0.2	0.1	-0.8	-0.7	-0.5	0.0	0.3	-0.7	-0.0	0.3	-0.0
2004	0.3	0.3	0.2	-0.2	-0.5	0.0	-1.5	-1.0	-0.3	-0.0	-0.3	0.3	-0.2
2005	0.6	-0.1	-0.0	-0.2	0.1	0.3	-0.0	-0.1	0.2	0.5	-0.1	0.8	0.2
2006	0.1	-0.1	0.1	0.1	-1.0	-0.1	-0.8	0.2	-0.3	0.0	-0.1	-0.9	-0.2
2007	0.4	-0.3	0.3	0.2	0.6	0.8	0.8	-0.1	-0.8	-0.3	0.2	-0.4	0.1
2008	-0.5	-0.7	-0.1	0.8	0.2	-0.9	-0.1	-0.8	-0.1	-0.8	-0.5	-0.5	-0.3
2009	-0.1	-0.3	0.5	-0.5	0.6	0.3	1.4	0.0	-0.4	-0.3	0.5	0.0	0.1
2010	0.7 _{0.2}	0.5 _{0.0}	0.3 _{0.2}	-0.6 _{0.0}	-0.8 _{0.0}	-1.0 _{-0.0}	-1.4 _{-0.2}	-1.1 _{-0.3}	0.3 _{-0.0}	-0.1 _{-0.1}	-0.7 _{-0.1}	-0.1 _{-0.1}	-0.3
2011	-0.1	-0.3	0.3	0.3	-0.1	0.1	1.2	1.0	0.6	-0.2	0.2	-0.3	0.2
2012	-0.6	-0.0	0.3	-0.0	-0.1	-0.6	-1.3	-0.3	-0.4	0.5	0.6	1.4	-0.0
2013	1.3	-0.1	-0.4	-0.2	-0.6	-0.4	-1.0	0.3	1.1	0.2	-0.2	0.9	0.1
2014	0.4	-0.3	-0.3	-0.3	0.7	-0.8	-0.2	0.0	0.5	0.1	0.0	-0.6	-0.1
2015	-0.1	0.0	0.1	-0.6	0.2	-0.9	-1.3	-0.7	-1.0	-0.3	-0.6	0.2	-0.4
2016	-0.5	-0.5	-0.4	0.2	1.0	-1.1	0.1	0.6	-0.2	1.1	1.3	0.6	0.2
2017	0.6	0.5	0.1	-0.2	0.6	-1.3	-0.8	-0.4	-0.7	1.0	0.3	0.2	-0.0
2018	0.1	0.2	0.1	0.9	-0.2	-0.1	0.3	0.2	-0.6	-0.4	-0.3	-0.3	-0.0
2019	-0.1	0.6	0.2	0.3	-0.2	-0.2	0.5	0.4	-0.0	0.8	1.3	1.4	0.4
2020	0.7 _{0.2}	0.8 _{0.1}	-0.3 _{-0.0}	0.9 _{0.1}	0.6 _{0.2}	-0.1 _{-0.5}	0.6 _{-0.2}	-0.6 _{0.1}	0.4 _{-0.0}	-0.5 _{0.2}	-0.2 _{0.2}	-0.1 _{0.3}	0.2
2021	-0.7	-0.2	0.3	-0.1	-0.0	-1.2	-0.0	-0.1	0.3	0.1	-0.7	-0.4	-0.2

With averages over 10 years

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Lower Troposphere Temperature Anomaly - Source: UAH 6.0 T departure from 1991-2020 avg. Antarctica

	january	february	march	april	may	june	july	august	september	october	november	december	year
1979	-0.2	-1.3	-1.3	0.3	-0.4	-1.6	-2.2	-1.7	-0.6	-1.0	-1.0	0.8	-0.8
1980	0.5	0.3	1.3	2.0	0.9	-0.2	2.8	1.8	2.2	-1.1	0.4	-0.7	0.8
1981	-0.7	0.2	1.7	-1.4	-0.2	0.1	2.1	2.7	1.4	-0.3	-1.8	-0.1	0.3
1982	-0.1	-0.4	-2.6	-1.8	0.4	-0.6	0.5	-1.5	-2.1	-1.1	0.5	1.0	-0.6
1983	0.0	-0.5	-1.1	0.5	2.2	0.2	-1.7	-0.2	1.7	-1.2	-2.6	-1.5	-0.4
1984	0.0	-1.0	0.8	0.2	2.4	-1.5	-0.7	-0.2	-0.4	-1.4	-1.2	1.2	-0.1
1985	0.5	-1.9	-0.1	0.4	-1.0	0.6	-1.7	0.4	-0.8	-1.4	-2.1	-1.7	-0.7
1986	-0.2	2.0	0.4	-0.1	0.3	-1.2	-0.1	-0.6	-1.0	-0.6	-0.8	-0.8	-0.2
1987	0.7	-0.5	-0.6	-0.6	-0.6	1.4	1.0	-2.4	-0.4	0.3	-1.3	-0.6	-0.3
1988	0.4	-0.8	0.4	0.1	0.7	1.3	-0.2	0.7	1.1	1.3	-0.8	-0.5	0.3
1989	-0.6	-0.3	-0.4	-0.2	-2.5	-2.0	-0.4	0.2	1.1	0.5	-1.4	2.1	-0.3
1990	0.6 _{0.1}	-0.3 _{-0.4}	-0.7 _{-0.2}	0.5 _{-0.2}	0.9 _{0.3}	-0.9 _{-0.2}	2.6 _{0.1}	-0.9 _{-0.2}	-1.0 _{-0.0}	0.2 _{-0.4}	0.1 _{-1.1}	0.9 _{-0.0}	-0.20
1991	-0.3	1.2	-0.3	1.4	-0.5	1.9	2.3	1.7	0.3	0.0	-0.6	1.7	0.7
1992	0.3	0.1	-0.1	-0.3	0.8	1.0	0.5	-0.0	-2.2	-0.5	-0.9	-1.1	-0.2
1993	0.3	-0.5	-0.8	-0.9	-1.8	-1.1	-0.8	-0.5	-0.8	-0.7	-1.1	-1.3	-0.8
1994	-0.8	-1.5	-1.2	-0.0	-1.6	1.9	0.9	-1.5	0.4	-0.2	-0.3	-1.0	-0.4
1995	-1.5	-0.4	-0.1	0.0	-1.1	-0.4	2.7	0.7	-1.0	-0.4	-0.7	-0.6	-0.2
1996	-0.7	0.2	-0.1	1.1	-2.0	-0.4	0.7	3.4	2.1	-0.2	0.3	0.1	0.4
1997	-0.2	-0.6	0.1	-0.8	-1.1	1.0	-1.8	-1.5	-1.3	-0.3	1.1	0.6	-0.4
1998	-0.6	0.5	-1.3	-1.9	0.4	0.8	-0.9	0.4	-0.5	-1.0	-1.0	-0.8	-0.5
1999	-0.5	-0.3	-0.4	-2.2	-1.4	0.9	-0.6	-0.1	0.5	-0.2	-1.1	-2.5	-0.6
2000	-2.1 _{-0.6}	-0.9 _{-0.2}	-1.0 _{-0.5}	-0.5 _{-0.4}	-0.6 _{-0.9}	1.2 _{-0.7}	0.5 _{0.4}	0.5 _{0.3}	1.3 _{-0.1}	-0.9 _{-0.4}	0.8 _{-0.3}	-0.0 _{-0.5}	-0.22
2001	0.0	0.3	0.1	-0.2	0.9	0.2	0.8	-1.6	-0.3	-0.7	-1.0	-0.7	-0.2
2002	0.7	-0.4	1.4	1.4	3.0	1.4	1.0	-0.1	1.3	1.5	0.3	0.0	1.0
2003	0.7	1.4	0.8	-0.1	-0.9	-0.9	-0.7	-0.5	0.4	-0.8	-0.3	0.9	-0.0
2004	0.6	1.0	0.4	0.0	-0.5	-0.1	-2.6	-1.2	-1.0	0.3	-0.5	0.9	-0.2
2005	0.8	0.0	0.5	-0.7	-0.1	0.6	0.0	-0.6	0.7	0.6	-0.5	1.7	0.3
2006	-0.1	-0.4	0.3	0.3	-1.4	-0.2	-1.3	1.2	-0.5	-0.2	-0.1	-1.3	-0.3
2007	0.5	-0.5	0.8	0.8	2.3	1.8	1.6	0.3	-0.3	-0.1	0.4	-1.2	0.5
2008	-1.1	-1.5	0.4	1.7	0.4	-1.5	-0.1	-1.5	-0.3	-1.3	-0.7	-0.6	-0.5
2009	0.0	0.4	0.8	-0.3	1.8	1.3	2.8	0.3	0.3	-0.3	0.5	0.2	0.6
2010	1.2 _{0.3}	0.7 _{0.1}	0.6 _{0.6}	-0.9 _{0.2}	-0.6 _{0.5}	-1.8 _{0.1}	-2.5 _{-0.1}	-1.9 _{-0.6}	0.3 _{0.1}	-0.1 _{-0.1}	-1.3 _{-0.3}	0.1 _{-0.0}	0.06
2011	0.5	-0.0	0.4	1.0	0.1	-0.1	2.1	2.1	0.8	0.0	1.0	-0.4	0.6
2012	-0.7	-0.0	0.2	0.3	0.1	-1.0	-2.2	-0.5	-0.8	1.0	1.2	2.1	-0.0
2013	1.4	-0.4	-0.6	-0.7	-0.7	0.5	-0.9	1.2	3.1	0.9	0.8	1.4	0.5
2014	0.9	-0.3	-0.7	-0.6	1.5	-0.6	-0.8	-0.2	1.4	0.1	0.4	-0.8	0.0
2015	-0.1	0.1	0.1	-0.8	-0.4	-0.9	-1.9	-1.6	-1.9	0.2	-0.4	0.1	-0.6
2016	-0.9	-0.8	-0.3	0.1	1.5	-1.9	-0.7	1.6	-0.7	0.9	1.9	1.0	0.1
2017	0.5	0.9	0.3	-0.5	0.9	-2.4	-1.0	-1.1	-1.2	1.4	0.4	0.3	-0.1
2018	0.6	0.1	0.2	1.8	0.4	0.3	0.5	1.0	-0.9	-0.1	-0.5	0.4	0.3
2019	-0.3	1.1	0.4	0.3	-0.5	-1.5	1.0	0.4	-0.4	1.3	1.7	1.6	0.4
2020	0.9 _{0.3}	0.5 _{0.1}	-1.0 _{-0.1}	1.4 _{0.2}	1.2 _{0.4}	-0.0 _{-0.8}	1.3 _{-0.3}	-0.3 _{0.3}	1.0 _{0.1}	-0.3 _{0.5}	0.1 _{0.7}	-0.7 _{0.5}	0.3
2021	-1.0	-0.8	0.7	-0.6	-0.7	-1.5	0.3	0.4	0.7	0.9	-0.7	-0.2	-0.2

With averages over 10 years

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Lower Troposphere Temperature Anomaly - Source: UAH 6.0 T departure from 1991-2020 avg. Southern Ocean Lat. 60S - 80S

	january	february	march	april	may	june	july	august	september	october	november	december	year 10 yr
1979	-0.2	-0.6	-0.2	-0.5	0.3	-0.7	-0.4	-0.7	0.2	0.0	-0.6	0.6	-0.2
1980	0.6	0.6	0.7	1.0	0.6	-0.1	0.9	0.7	0.8	-0.6	-0.2	-0.8	0.3
1981	-0.3	0.3	0.7	0.1	0.3	-0.1	0.5	0.4	0.6	-0.3	-1.1	-0.3	0.1
1982	0.3	-0.4	-0.6	-0.8	0.6	0.6	-0.4	-0.3	-0.4	-0.0	-0.0	0.2	-0.1
1983	0.3	-0.1	-0.3	0.3	0.9	0.6	-0.4	-0.2	0.9	-0.6	-0.9	-0.6	-0.0
1984	0.2	-0.1	0.3	-0.0	1.4	-0.7	-0.9	0.5	-0.2	0.1	-0.4	0.6	0.1
1985	0.1	-1.0	-0.7	-0.3	-0.5	0.3	0.2	-0.0	-0.4	-0.3	-0.6	-0.9	-0.3
1986	-0.5	0.3	-0.0	0.1	0.1	0.0	0.4	-0.2	-0.4	-0.5	0.2	-0.4	-0.1
1987	-0.3	0.2	-0.3	-0.4	0.1	0.4	0.5	0.0	-0.2	0.1	-0.3	0.0	-0.0
1988	0.3	-0.6	0.0	0.5	-0.0	0.2	0.6	0.8	0.8	0.5	-0.2	0.5	0.3
1989	-0.3	-0.1	-0.2	-0.3	-0.7	-0.2	0.5	0.3	0.4	0.1	-0.4	0.9	0.0
1990	0.6 _{0.0}	-0.4 _{-0.2}	-0.7 _{-0.2}	0.2 _{-0.1}	0.4 _{0.3}	-0.3 _{0.1}	1.7 _{0.3}	-0.4 _{0.1}	-0.1 _{0.1}	-0.4 _{-0.1}	0.0 _{-0.4}	0.3 _{0.0}	-0.00
1991	-0.4	0.2	-0.3	0.4	0.3	0.9	1.0	0.7	0.2	0.6	-0.2	0.7	0.4
1992	0.4	0.0	-0.0	0.2	0.8	0.7	0.6	0.1	-0.5	-0.1	-0.0	0.3	0.2
1993	0.4	0.0	-0.3	-0.1	-0.2	0.4	0.1	0.6	-0.0	0.1	0.1	-0.6	0.1
1994	-0.6	-0.7	-0.1	-0.1	-0.2	0.3	0.2	-0.8	0.5	-0.2	0.5	-0.1	-0.1
1995	-0.4	-0.3	0.0	0.3	-0.3	0.5	0.6	0.4	-0.1	0.4	-0.6	-0.1	0.0
1996	-0.3	-0.1	0.2	0.4	-0.6	0.4	0.3	1.9	1.1	0.2	0.5	-0.1	0.3
1997	-0.2	-0.2	0.4	-0.2	-0.0	0.8	-0.1	-0.3	-0.7	0.0	0.6	0.0	0.0
1998	0.0	0.7	-0.5	-0.1	1.1	0.9	-0.3	0.4	0.4	-0.5	-0.6	-0.4	0.1
1999	-1.0	0.0	-0.1	-0.3	-0.4	0.1	0.1	-0.2	0.3	0.1	-0.4	-0.6	-0.2
2000	-1.1 _{-0.3}	-0.1 _{-0.0}	-0.2 _{-0.1}	-0.7 _{-0.0}	0.1 _{0.1}	0.3 _{0.5}	0.5 _{0.3}	-0.2 _{0.3}	0.3 _{0.1}	-0.1 _{0.0}	0.1 _{0.0}	-0.6 _{-0.1}	0.06
2001	-0.1	-0.1	-0.2	-0.1	0.4	-0.2	0.3	-0.3	-0.6	-0.2	-0.6	-0.7	-0.2
2002	0.0	0.5	0.8	0.3	0.7	0.6	-0.3	0.4	1.1	0.6	0.4	0.6	0.5
2003	0.7	0.0	0.0	0.2	-0.7	-0.5	-0.4	0.3	0.3	-0.7	0.1	0.1	-0.1
2004	0.1	0.0	0.1	-0.3	-0.5	0.0	-1.0	-0.8	-0.0	-0.2	-0.2	-0.0	-0.2
2005	0.5	-0.2	-0.3	0.0	0.2	0.2	-0.0	0.2	-0.1	0.5	0.1	0.3	0.1
2006	0.2	0.0	0.0	0.0	-0.8	-0.0	-0.5	-0.3	-0.3	0.1	-0.1	-0.7	-0.2
2007	0.4	-0.1	0.1	-0.1	-0.2	0.3	0.4	-0.3	-1.0	-0.4	0.1	-0.1	-0.1
2008	-0.2	-0.3	-0.3	0.4	0.1	-0.6	-0.1	-0.5	0.0	-0.6	-0.3	-0.5	-0.3
2009	-0.1	-0.7	0.4	-0.6	0.1	-0.1	0.8	-0.1	-0.8	-0.3	0.6	-0.1	-0.1
2010	0.5 _{0.2}	0.4 _{-0.0}	0.2 _{0.1}	-0.5 _{-0.1}	-0.9 _{-0.2}	-0.6 _{-0.1}	-0.9 _{-0.2}	-0.7 _{-0.2}	0.4 _{-0.1}	0.0 _{-0.1}	-0.5 _{-0.1}	-0.1 _{-0.1}	-0.2
2011	-0.4	-0.4	0.2	-0.1	-0.1	0.2	0.8	0.5	0.6	-0.3	-0.2	-0.3	0.0
2012	-0.5	-0.1	0.3	-0.2	-0.1	-0.4	-0.9	-0.2	-0.2	0.2	0.4	1.1	-0.0
2013	1.2	0.0	-0.3	0.1	-0.5	-0.8	-1.0	-0.0	0.2	-0.1	-0.7	0.7	-0.1
2014	0.1	-0.3	-0.1	-0.1	0.3	-0.9	0.1	0.1	0.1	0.1	-0.2	-0.5	-0.1
2015	-0.1	0.0	0.1	-0.4	0.5	-0.9	-1.0	-0.3	-0.6	-0.6	-0.7	0.2	-0.3
2016	-0.3	-0.4	-0.4	0.3	0.8	-0.7	0.5	0.1	0.1	1.1	1.0	0.4	0.2
2017	0.7	0.3	0.0	0.0	0.5	-0.8	-0.6	-0.2	-0.5	0.8	0.3	0.1	0.0
2018	-0.2	0.3	0.1	0.6	-0.5	-0.3	0.3	-0.2	-0.4	-0.6	-0.2	-0.7	-0.2
2019	0.0	0.4	0.1	0.3	-0.1	0.4	0.2	0.4	0.2	0.6	1.1	1.2	0.4
2020	0.7 _{0.1}	0.9 _{0.1}	0.0 _{-0.0}	0.6 _{0.1}	0.3 _{0.1}	-0.1 _{-0.4}	0.4 _{-0.1}	-0.7 _{-0.0}	0.2 _{-0.0}	-0.5 _{0.1}	-0.3 _{0.0}	0.1 _{0.2}	0.1
2021	-0.5	0.0	0.1	0.1	0.3	-1.1	-0.2	-0.4	0.1	-0.2	-0.8	-0.5	-0.3

With averages over 10 years

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