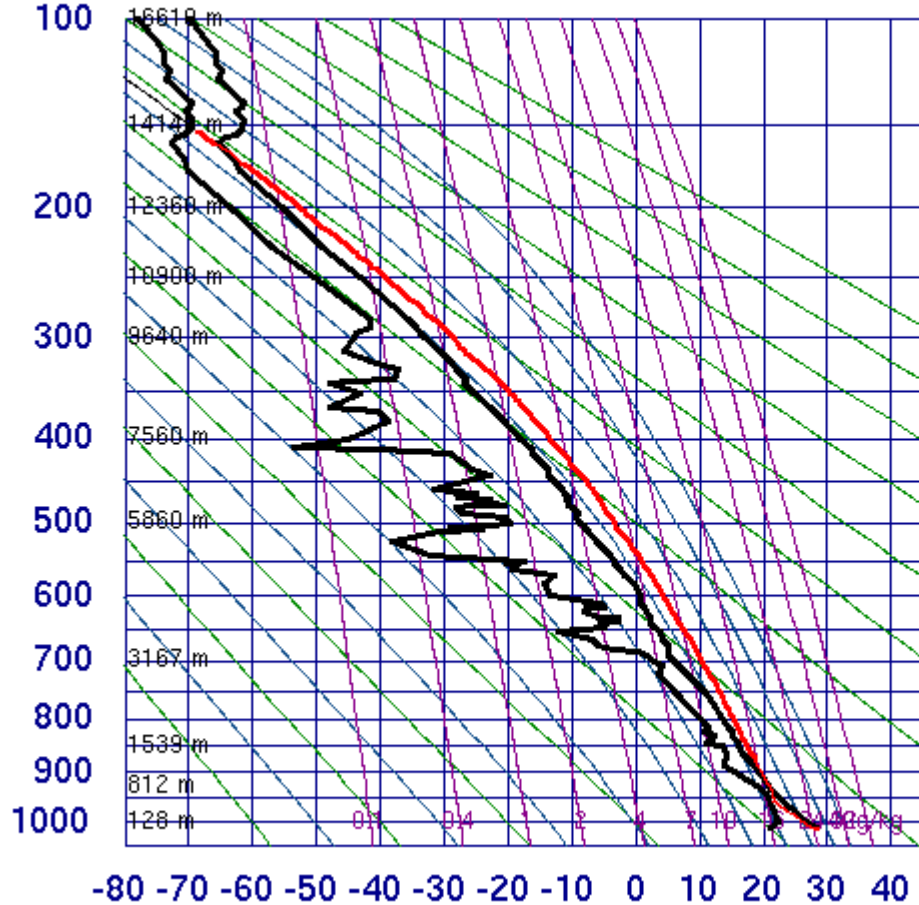


Name _____

Date: / /

72240 LCH Lake Charles



SLAT	30.12
SLON	-93.20
SELV	5.00
SHOW	-1.03
LIFT	-5.51
LFTV	-6.24
SWET	188.4
KINX	35.60
CTOT	22.40
VTOT	24.90
TOTL	47.30
CAPE	1799.
CAPV	2024.
CINS	-1.97
CINV	-0.22
EQLV	169.0
EQTV	169.0
LFCT	909.9
LFCV	925.5
BRCH	204.5
BRCV	230.0
LCLT	293.9
LCLP	930.9
MLTH	300.0
MLMR	16.90
THCK	5732.
PWAT	45.08

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University of Wyoming

1. Label the following lines on the Stüve diagram: temperature, dew point, adiabatic temperature change.
2. Shade in the region between the temperature and adiabatic line where the air is unstable.
3. At what altitude is the level of free convection? _____
4. At what altitude will the base of a cloud be found? _____
5. What is the highest possible altitude at the top of this cloud? _____
6. What is the approximate Lifted Index? _____
7. At what altitude does the rising air become saturated? _____