

2017 SEVERE STORMS TOPICS

ITEM ID	TOPIC	RESOURCE
3. a.	Air masses	http://ww2010.atmos.uiuc.edu/(Gh)/guides/mtr/af/home.xml
	Fronts	http://ww2010.atmos.uiuc.edu/(Gh)/guides/mtr/af/home.xml
	Cyclones and anticyclones	http://www.earthonlinemedia.com/ebooks/tpe_3e/circulation/cyclones_and_anticyclones.html
	Weather maps	http://www.srh.weather.gov/srh/jetstream/synoptic/wxmaps.html
	Weather stations	http://www.wpc.ncep.noaa.gov/html/stationplot.shtml
	Global circulation	http://www.srh.noaa.gov/jetstream/global/circ.html
	Semi-permanent highs/lows	https://climate.ncsu.edu/edu/k12/.highlow
	Scales of atmospheric motion	http://www.atmos.washington.edu/~robwood/teaching/431/431_Boundary_Layer_Slides.pdf
	3.b.	Mid-latitude cyclones: life cycles, characteristics, structure and hazards
Surface weather maps		http://www.nws.noaa.gov/outlook_tab.php
3.c.	Types of T-storms: airmass, multicell, supercell, dryline	http://www.nssl.noaa.gov/education/svrwx101/thunderstorms/types/
	Life cycle of T-storms	http://www.theweatherprediction.com/severe/structure/
	Characteristics of T-storms	http://www.theweatherprediction.com/severe/structure/
	Structures of T-storms	http://www.theweatherprediction.com/severe/structure/
	Hazards of T-storms	http://forecast.weather.gov/jetstream/tstorms/wind.htm
3.d.	Squall lines	http://www.theweatherprediction.com/habyhints/150/
	Mesoscale convective complexes	https://weather.com/science/weather-explainers/news/mcs-thunderstorm-clusters-flash-flooding-high-winds-derecho#! http://www.wxonline.info/topics/mcs.html http://www.nssl.noaa.gov/education/svrwx101/thunderstorms/types/
	Straight line winds	http://www.crh.noaa.gov/images/dvn/downloads/quickfacts_Straightline_Wind_Derecho.pdf
3.e.	Downrafts Downbursts	http://www.srh.noaa.gov/jetstream/append/glossary_d.html
	Gust fronts	http://ww2010.atmos.uiuc.edu/(Gh)/wwhlpr/gust_front.xml
	Micro-Macrobusts	http://www.weather.gov/ama/microbursts
	Derechos	http://www.spc.noaa.gov/misc/AbtDerechos/derechofacts.htm
	Dust storms	http://www.nws.noaa.gov/om/brochures/duststrm.htm

3.f.	Electrification of clouds	http://www.nws.noaa.gov/om/lightning/science/science_electrification.htm
	Types of lightning strikes	http://www.nssl.noaa.gov/education/svrwx101/lightning/types/
	Lightning direction finders/systems	http://www.lightningsafety.com/nlsi_lhm/overview2002.html
3.g.	Tornado life cycles	http://www.nssl.noaa.gov/education/svrwx101/tornadoes/
	Tornado characteristics	http://www.nssl.noaa.gov/education/svrwx101/tornadoes/types/
	Tornado structures	http://www.nssl.noaa.gov/education/svrwx101/tornadoes/
	Tornado hazards	http://www.nssl.noaa.gov/education/svrwx101/tornadoes/faq/
	Fujita/E-Fujita Scales	http://www.spc.noaa.gov/efscale/
3.h.	Blizzards	http://www.diffen.com/difference/Blizzard_vs_Winter_Storm
	Nor'easters	http://www.nws.noaa.gov/om/winter/noreaster.shtml
	Lake effect snowstorms	http://www.theweatherprediction.com/winterwx/lesnow/
	Winter storm characteristics	http://www.diffen.com/difference/Blizzard_vs_Winter_Storm
	Winter storm hazards	http://www.crh.noaa.gov/Image/gid/WCM/awareness/winterdangers.pdf
3.i.	High-resolution surface-based station networks (OK Mesonet)	http://www.mesonet.org/
	Weather aircraft	http://www.hurricanehunters.com/
	Satellite IR imagery	http://www.weather.gov/satellite
	Doppler Radar	http://www.srh.noaa.gov/jetstream/doppler/doppler_intro.html
	Bow echo, TVS (tornadic vortex signature), hook echo, debris ball, etc	http://www.srh.weather.gov/jetstream/derechos/derecho_bowecho.html http://2.bp.blogspot.com/_wIGMu4FMLvE/S_yLNf32xjI/AAAAAAAAAOc/bAEvbfC-2Cs/s1600/gld_052610_0106_srvel_tvs.png http://www.spc.noaa.gov/faq/tornado/radscel.htm
3.j.	ID clouds of severe storms	http://www.accuweather.com/en/weather-news/thunderstorm-clouds-mean-danger/25434310
3.k.	Hurricane, Typhoons, Cyclones: Life cycles	http://www.nws.noaa.gov/om/hurricane/index.shtml
	Arctic hurricanes	http://www.weatheronline.co.uk/reports/wxfacts/The-Polar-low---the-arctic-hurricane.htm
	Hurricane characteristics	http://www.indiana.edu/~geog109/topics/13_severe/13-Hurricanes_nf.pdf
	Hurricane structure	http://www.srh.noaa.gov/jetstream/tropics/tc_structure.html
	Hurricane hazards	http://www.nhc.noaa.gov/prepare/hazards.php

