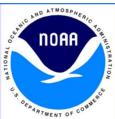


# Houston Severe Weather Event August 16, 2013







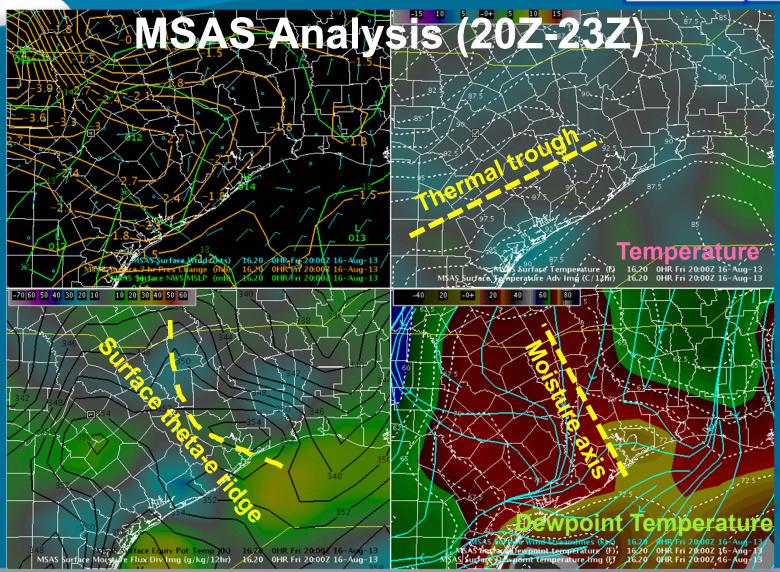
# Water Vapor Imagery (RAMSDIS Color)

Very dry conditions in the mid-upper levels as the shortwave trough approaches (increasing risk of downburst winds)

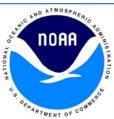
County Boundaries
ARTCC Areas
Lat/Lon 10 over Ocean
State/Gounty Boundaries



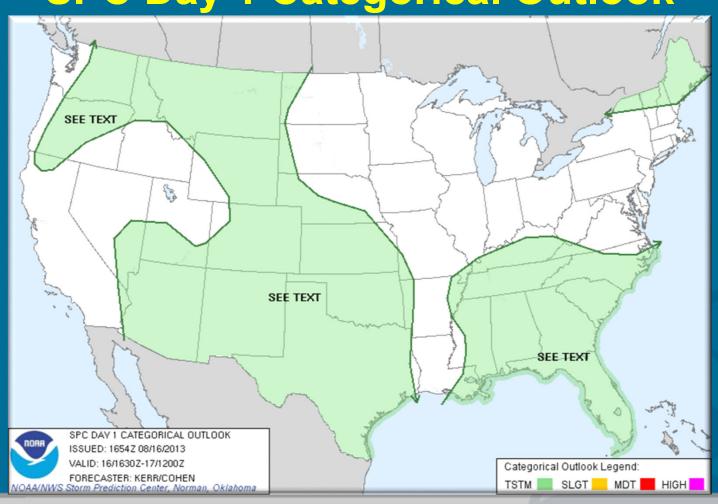


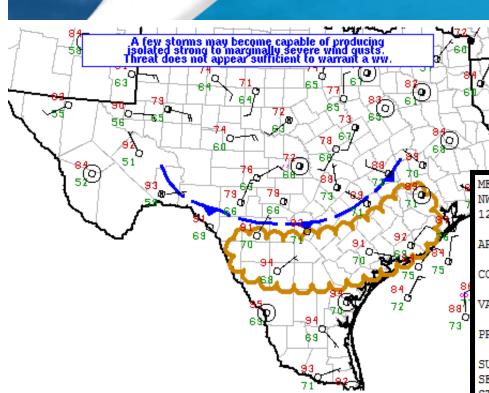






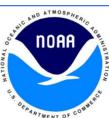
# **SPC Day 1 Categorical Outlook**





SPC MCD #1729





MESOSCALE DISCUSSION 1729 NWS STORM PREDICTION CENTER NORMAN OK 1240 PM CDT FRI AUG 16 2013

AREAS AFFECTED...A PORTION OF SRN AND SERN TX

CONCERNING...SEVERE POTENTIAL...WATCH UNLIKELY

VALID 161740Z - 161945Z

PROBABILITY OF WATCH ISSUANCE...5 PERCENT

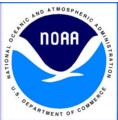
SUMMARY...A FEW STORMS DEVELOPING SWD THROUGH A PORTION OF SRN AND SERN TX THIS AFTERNOON MAY BECOME CAPABLE OF PRODUCING ISOLATED STRONG TO MARGINALLY SEVERE WING GUSTS. OVERALL THREAT DOES NOT APPEAR SUFFICIENT TO WARRANT A WW.

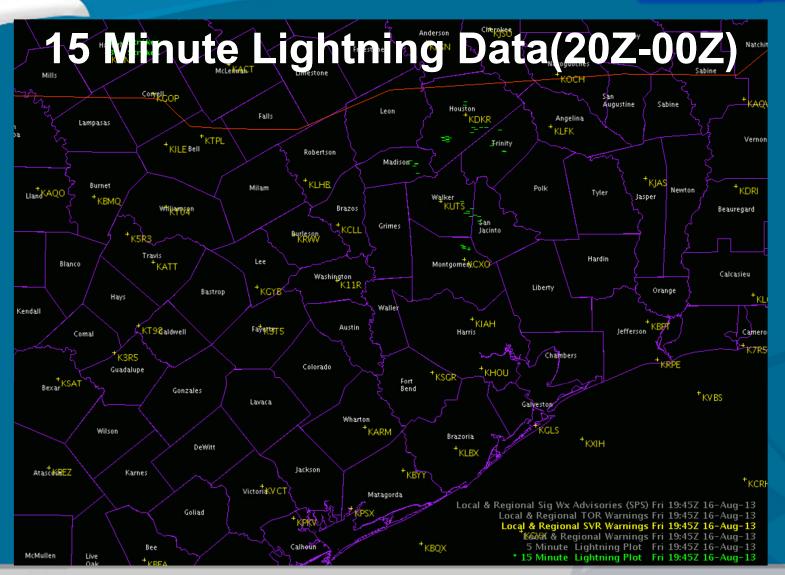
DISCUSSION...EARLY THIS AFTERNOON AN EXPANSIVE OUTFLOW BOUNDARY STRETCHES FROM HUNTSVILLE IN SERN TX WSWWD TO JUST NORTH OF SAN ANTONIO THEN FARTHER WEST NEAR SANDERSON...AND IS MOVING SOUTH AT AROUND 20 KT. MOSTLY CLEAR SKIES HAVE PROMOTED STRONG INSOLATION SOUTH OF THIS FEATURE...WITH SFC TEMPERATURES CLIMBING INTO THE 90S ALONG WITH LOW 70S DEWPOINTS. DESPITE THE HIGH THETA-E BOUNDARY LAYER AIR...THERMODYNAMIC PROFILES ARE UNIMPRESSIVE WITH MLCAPE LIMITED TO 1500-2000 J/KG DUE TO WARM AIR ALOFT AND WEAK MIDDLE-LEVEL LAPSE RATES. DESTABILIZATION AND CONVERGENCE ALONG THE OUTFLOW BOUNDARY HAVE FOSTERED INITIATION OF SCATTERED STORMS OVER SCNTRL TX. THE STEEPENING LOW-LEVEL LAPSE RATES MAY CONTRIBUTE TO A THREAT OF ISOLATED STRONG WIND GUSTS WITH SOME OF THE STORMS. HOWEVER...WEAK VERTICAL SHEAR AND MID-LEVEL LAPSE RATES SUGGEST AN ORGANIZED SEVERE EVENT IS UNLIKELY.

..DIAL/KERR.. 08/16/2013

# **SPC Mesoscale Discussion 1729**

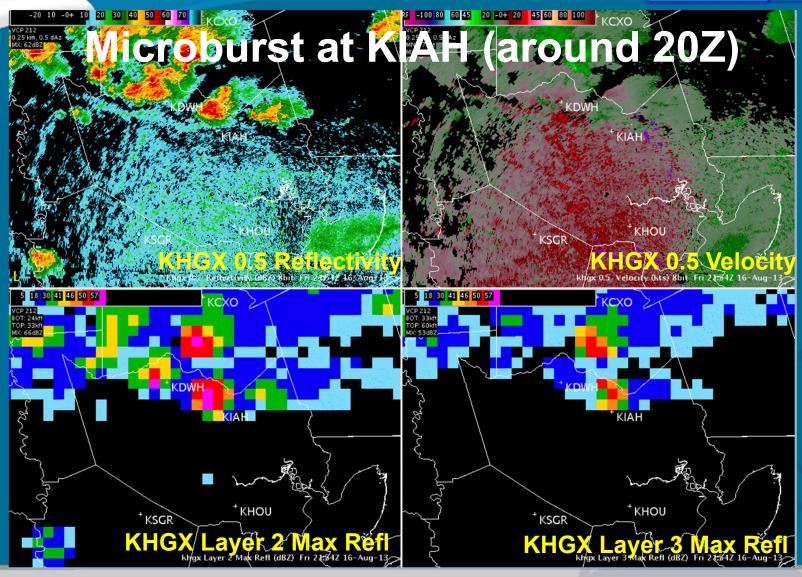




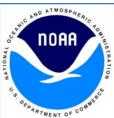










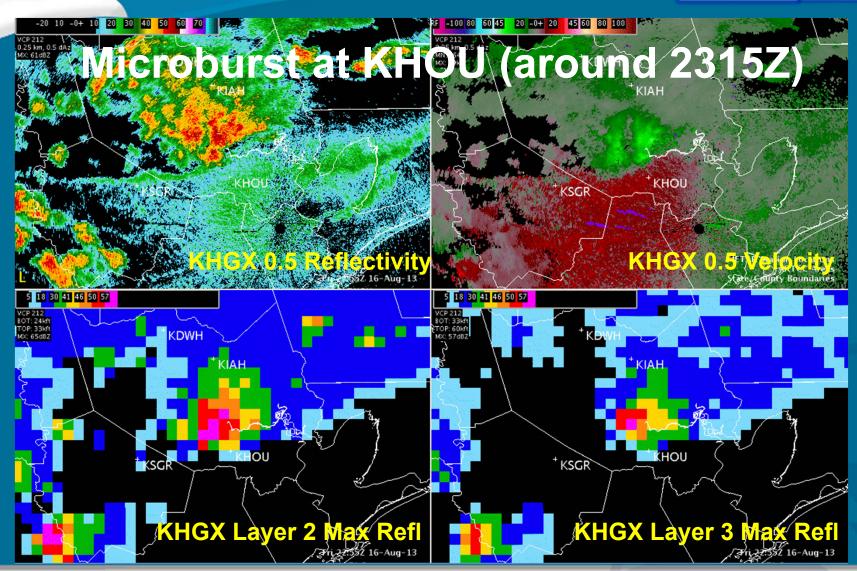


#### Weather Observations for: Houston, Houston Intercontinental Airport

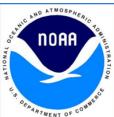
Time	Temp.	Dew	Relative	Wind	Wind	Visibility	WX	Clouds		
Point Humidity Direction Speed										
(CDT)	(f)	<b>(f)</b>	(%)		(mph)	(miles)				
16 Aug 6:53 pm CDT	73	72	96	SSE	3	10.00	-RA	FEW039 BKN110 BKN250		
16 Aug 6:32 pm CDT	73	72	94	S	5	6.00	-RA	FEW040 BKN110 BKN250		
16 Aug 5:53 pm CDT	73	70	90	NW	7	5.00	+TSRA	SCT012 SCT045CB BKN080 OVC250		
16 Aug 5:48 pm CDT	73	70	89	WNN	6	5.00	-TSRA	SCT012 SCT045CB BKN080 OVC250		
16 Aug 5:31 pm CDT	72	70	94	ESE	9G47	0.75	+TSRA	FEW010 BKN045CB OVC075		
16 Aug 5:25 pm CDT	73	70	89	ENE	21G47	0.75	+TSRA	FEW010 BKN045CB OVC075		
16 Aug 5:16 pm CDT	73	70	89	WSW	13G51	0.50	+TSGRRA	FEW010 BKN045CB OVC080		
16 Aug 5:09 pm CDT	82	73	74	MNM	43G51	2.00	+TSRA	FEW040CB BKN075 OVC250		
16 Aug 5:08 pm CDT	84	73	70	MMM	37G46	1.75	+TSRA	SCT050CB BKN080 BKN250		
16 Aug 4:57 pm CDT	91	70	49	SE	12	10.00	TS	SCT050CB BKN080 BKN250		
16 Aug 4:53 pm CDT	93	70	47	E	8	10.00		SCT050 BKN080 BKN250		
16 Aug 3:53 pm CDT	93	71	49	VRBL	3	10.00		SCT060 SCT100 SCT250		
16 Aug 2:53 pm CDT	92	70	49	VRBL	5	10.00		SCT050 SCT250		
16 Aug 1:53 pm CDT	91	70	50	CALM		10.00		SCT050		
16 Aug 12:53 pm CDT	90	71	54	NE	6	10.00		SCT041		
16 Aug 11:53 am CDT	90	72	56	VRBL	5	10.00		SCT038 BKN050		
16 Aug 10:53 am CDT	86	72	62	ENE	5	10.00		FEW027 SCT250		
16 Aug 9:53 am CDT	83	74	74	N	6	9.00		FEW020 SCT250		
16 Aug 8:53 am CDT	80	74	82	NNE	5	9.00		CLR		
16 Aug 7:53 am CDT	77	75	94	NNE	5	5.00	BR	CLR		
16 Aug 6:53 am CDT	75	74	96	N	3	7.00		FEW070 SCT250		









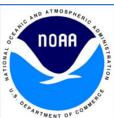


### Weather Observations for: Houston, Houston Hobby Airport

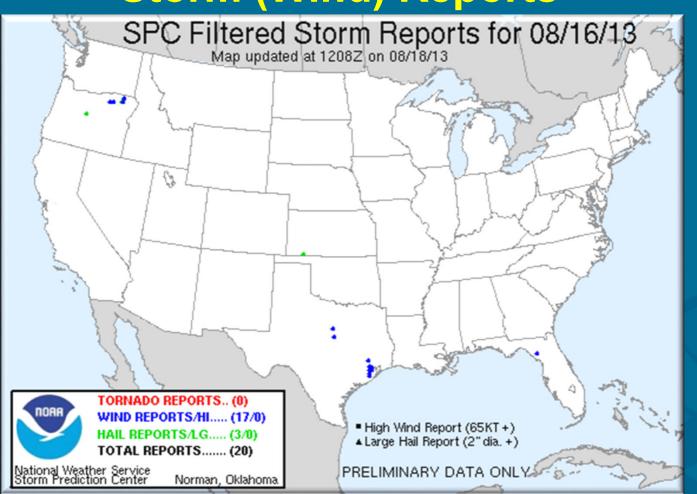
Time	Temp	. Dew	Relativ	e Wind	Wind	Visibilit	y WX	Clouds			
Point Humidity Direction Speed											
(CDT)	(f)	(f)	(%)		(mph)	(miles)	)				
16 Aug 7:19 pm CDT	75	72	89	CALM		10.00	-RA	FEW065 BKN110			
16 Aug 6:53 pm CDT	73	70	90	NNE	5	8.00	-TSRA	FEW009 BKN041CB OVC070			
16 Aug 6:45 pm CDT	73	70	89	CALM		8.00	-TSRA	FEW009 BKN041CB OVC070			
16 Aua 6:34 pm CDT	73	70	89	WNW	12 <b>G24</b>	2.00	+TSRA BR	FEW009 BKN041CB OVC049			
16 Aug 6:21 pm CDT	73	70	89	N	20G53	0.75	+TSRA BR SC	FEW011 SCT024 BKN049CB BKN250			
16 Aug 6:13 pm CDT	75	70	83	N	14G39	1.00	+TSRA SQ	FEW026 SCT047CB BKN100 BKN250			
16 Aug 5:53 pm CDT	90	70	52	E	15G20	10.00	TS	SCT050CB BKN250			
16 Aug 4:53 pm CDT	90	71	54	E	10	10.00		SCT050 SCT250			
16 Aug 3:53 pm CDT	92	69	47	E	5	10.00		FEW050 SCT250			
16 Aug 2:53 pm CDT	91	69	49	VRBL	5	10.00		SCT050			
16 Aug 1:53 pm CDT	92	70	49	VRBL	6	10.00		SCT045			
16 Aug 12:53 pm CDT	90	69	51	CALM		10.00		SCT040			
16 Aug 11:53 am CDT	88	70	55	CALM		10.00		SCT035			
16 Aug 10:53 am CDT	86	72	62	VRBL	5	10.00		SCT025			
16 Aug 9:53 am CDT	83	73	72	N	6	10.00		FEW020			
16 Aug 8:53 am CDT	82	74	77	N	8	8.00		FEW020			
16 Aug 7:53 am CDT	80	74	82	VRBL	6	10.00		FEW020 SCT120 SCT250			
16 Aug 6:53 am CDT	77	73	89	CALM		10.00		FEW020 SCT110 BKN250			
16 Aug 5:53 am CDT	78	74	87	CALM		10.00		OVC110			
16 Aug 4:53 am CDT	79	73	82	CALM		10.00		BKN080 BKN250			

CWSU Houston, TX 10 11/7/2020



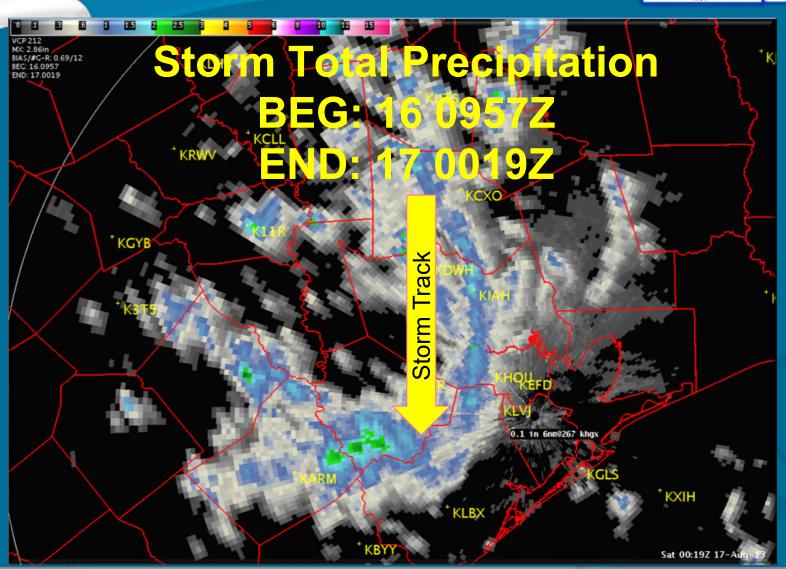


### **Storm (Wind) Reports**









**CWSU Houston, TX**