

Weather – KGLS 042252Z 11011KT 10SM SCT023 28/24 A2979

(CST time is equal to UCT time minus 5 hours - 1800 hours CST = 2300 hours UCT)

KGLS Airport – Galveston TX (*elevation 5 feet*) is about 11 miles southeast from the accident location

Galveston (GLS) 11 miles southeast

KGLS 042152Z 11009KT 10SM SCT023 29/24 A2979 RMK AO2 SLP088 T02940239

KGLS 042252Z 11011KT 10SM SCT023 28/24 A2979 RMK AO2 SLP089 T02830239

KGLS 042352Z AUTO 13010KT 10SM FEW019 28/24 A2981 RMK AO2 SLP093 T02780239 10306 20278 53003

KGLS 050052Z AUTO 12008KT 10SM FEW018 27/24 A2982 RMK AO2 SLP098 T02720239

Pearland Regional (LVJ) 17 miles northwest

KLVJ 042153Z AUTO 15012KT 10SM FEW038 FEW047 SCT060 32/21 A2979 RMK AO2

KLVJ 042253Z AUTO 11008KT 10SM FEW035 30/22 A2979 RMK AO2 SLP088 T03000222

KLVJ 042353Z AUTO 11009KT 10SM SCT029 29/22 A2981 RMK AO2

KLVJ 050053Z AUTO 12006KT 10SM CLR 28/23 A2983 RMK AO2 SLP099 T02830228

Ellington Field (EFD) 21 miles north

KEFD 042150Z 09010KT 10SM SCT035 SCT250 30/23 A2980

KEFD 042250Z 10007KT 10SM SCT035 SCT250 29/23 A2980

KEFD 042350Z 09006KT 10SM FEW035 SCT250 28/22 A2982

KEFD 050050Z 11005KT 10SM SCT035 27/22 A2982

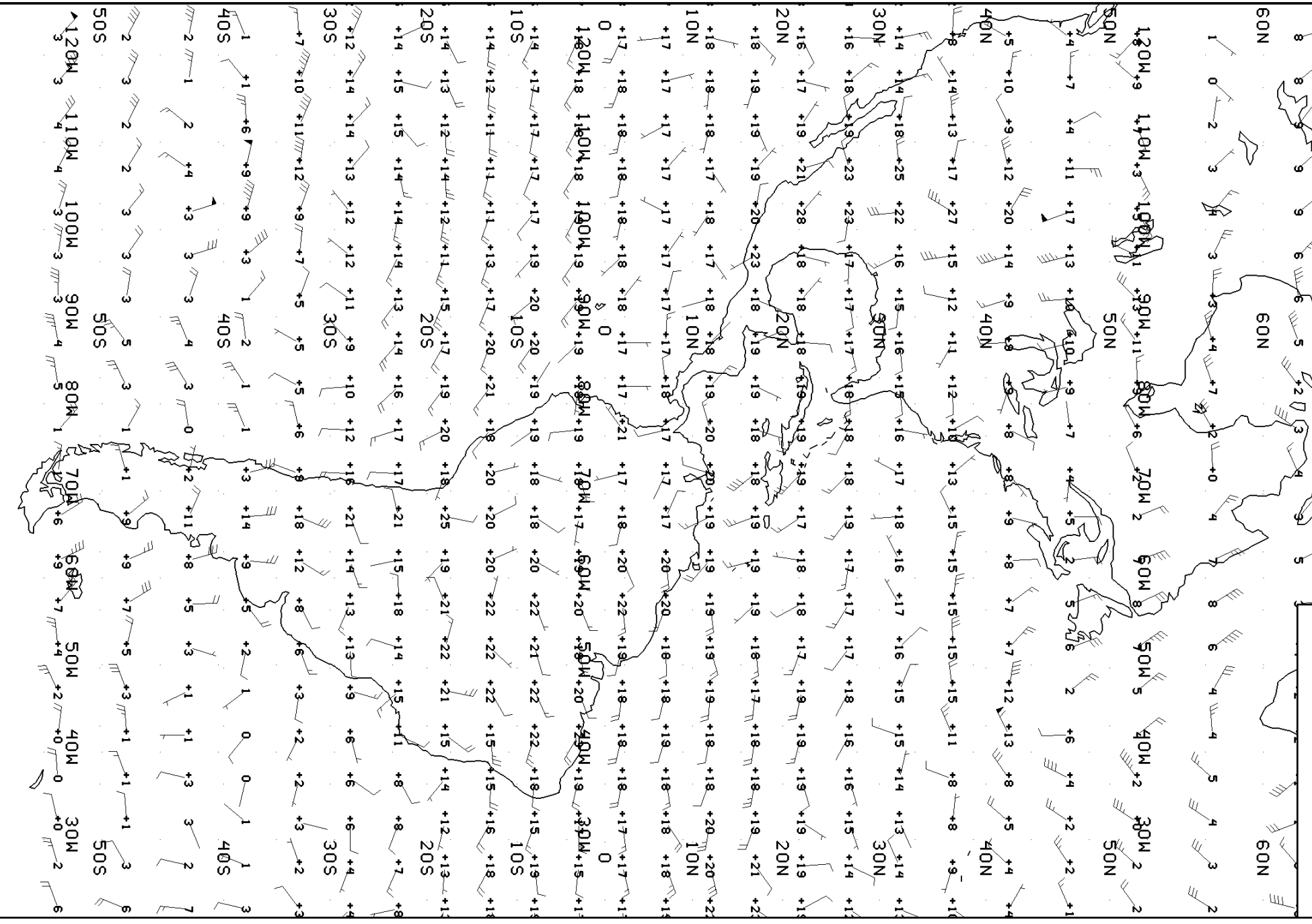
PNMB85

WORLD AREA FORECAST CENTER
WASHINGTON

FL 050 WINDS/TEMPERATURES

VALID 00UTC OCT 04 2016
BASED ON 18UTC OCT 03 2016

WIND SPEED IN KNOTS; TEMPS UNSIGNED
UNLESS POSITIVE



Solar Position and Apparent Sunset from <http://www.esrl.noaa.gov/gmd/grad/solcalc/>

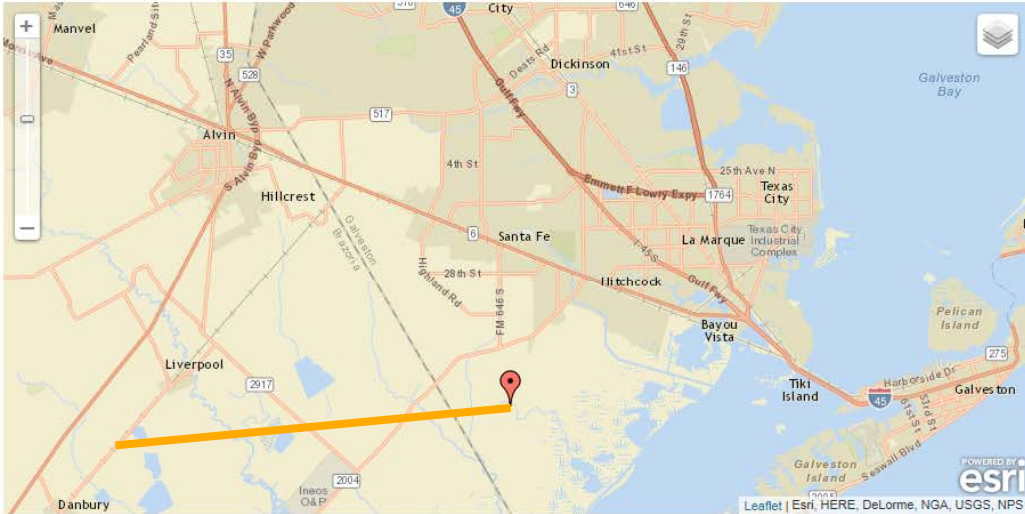
showing at 1828 CDT the Sun was Azimuth 260 degrees & Elevation 6 degrees

NOAA Solar Calculator

Find Sunrise, Sunset, Solar Noon and Solar Position for Any Place on Earth

Show: ☐ World Cities ☒ U.S. Cities ☐ GMD Observ.'s ☐ GMD Data Sites ☐ SurfRad

Click one of the small pins near (and in the same time zone as) your desired location. Use the control on the left side of the map to zoom in or out. Place the large pin in the exact desired location. You can use the Save button to have your computer remember the current location for next time. Check the DST check box if Daylight Saving Time is in effect for your site.



Location:

Latitude: 29.284153 Longitude: -95.074481 Time Zone: -5

☐ DST?

Save Location

Date:

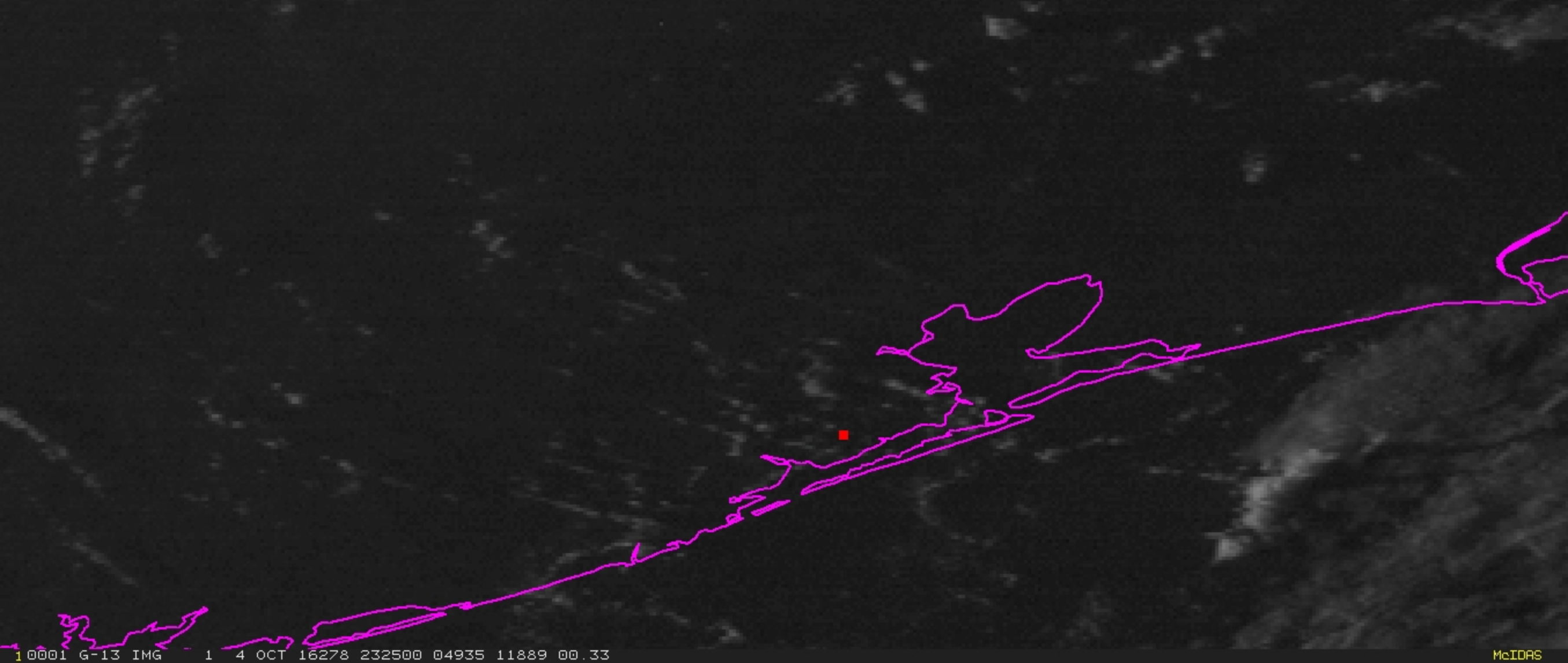
Day: 4 Month: Oct Year: 2016

Local Time: 18 : 28 : 00 ☐ PM

Result

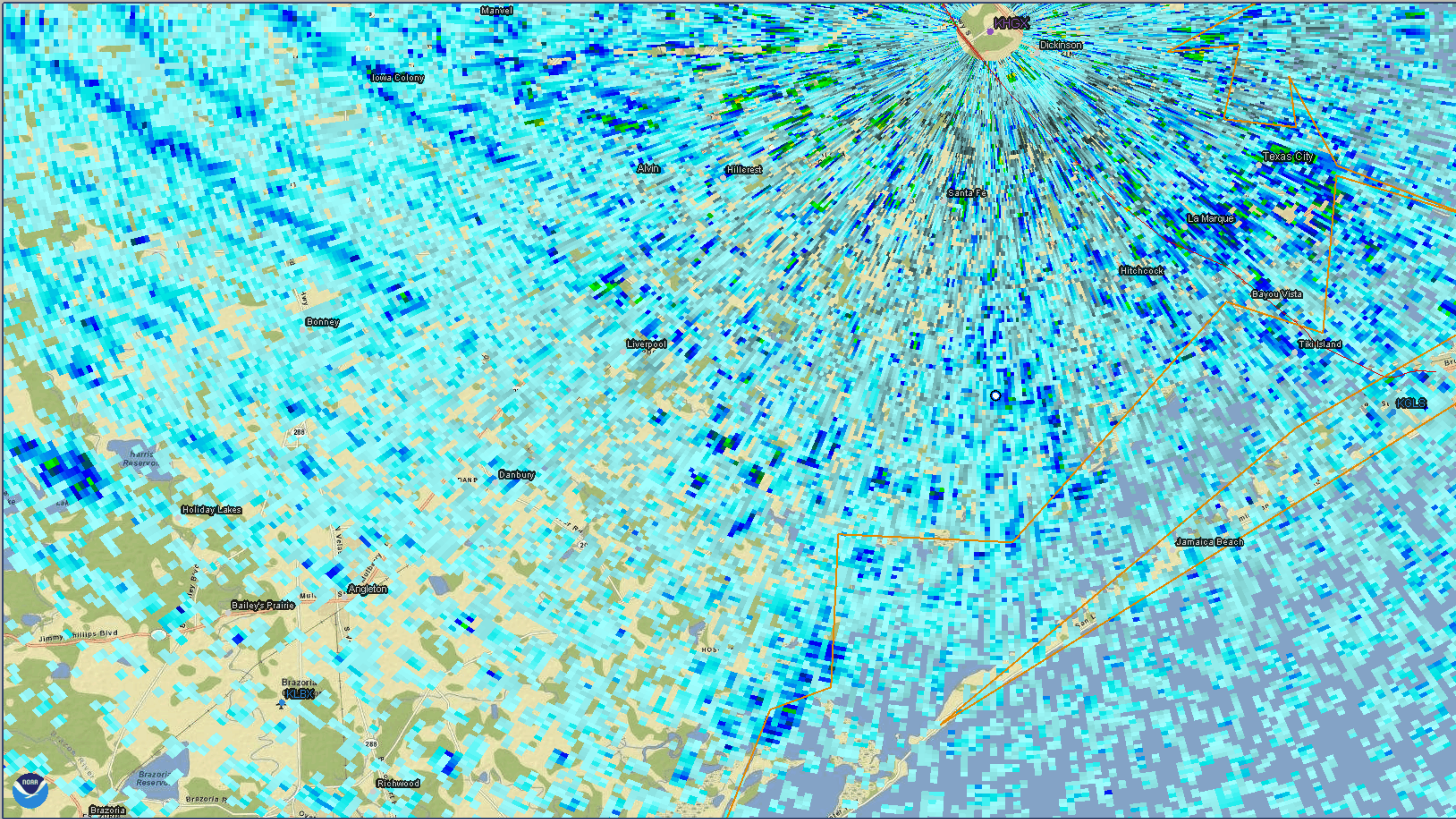
Equation of Time (minutes):	Solar Declination (in°):	Apparent Sunrise (hh:mm):	Solar Noon (hh:mm:ss):	Apparent Sunset (hh:mm):	Az/EI (in °) at Local Time:
11.55	-4.81	07:15	13:08:49	19:02	260.78 6.6

☐ Show Sunrise ☐ Show Sunset ☒ Show Azimuth



1 0001 G-13 IMG 1 4 OCT 16278 232500 04935 11889 00.33

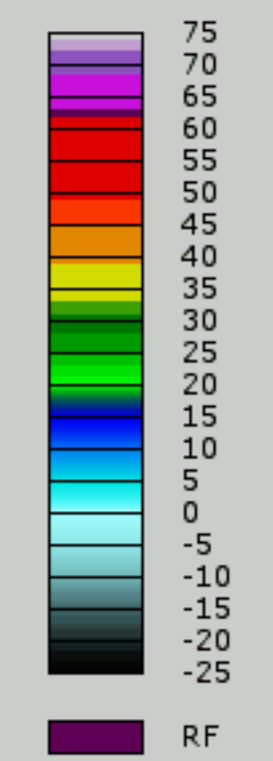
McIDAS

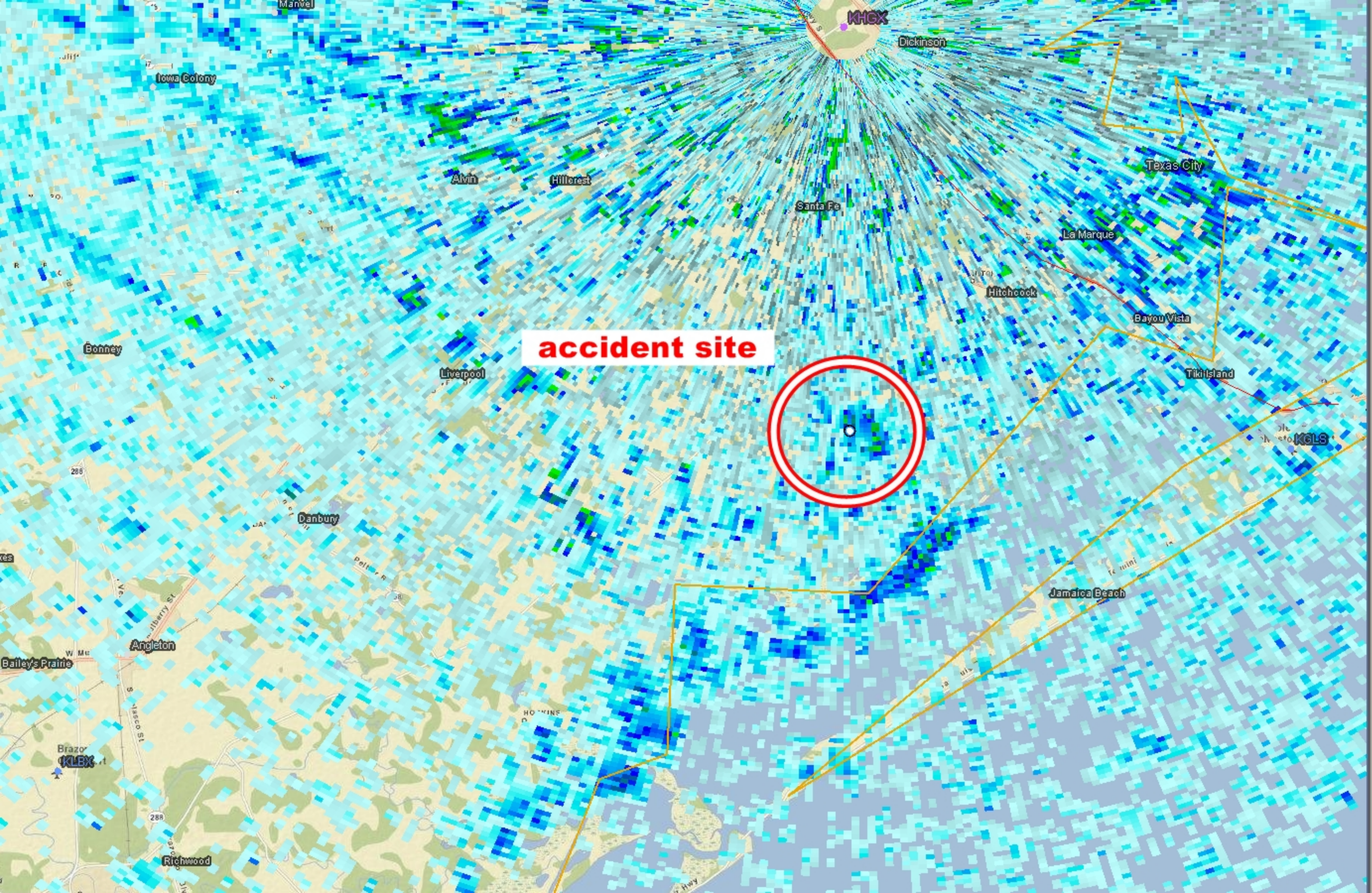


NEXRAD LEVEL-II
KHXG - HOUSTON, TX
10/04/2016 23:16:07 GMT
LAT: 29/28/18 N
LON: 95/04/43 W
ELEV: 18 FT
VCP: 11

REFLECTIVITY
ELEV ANGLE: 0.55
SWEEP TIME: 23:16:11 GMT

Legend: dBZ

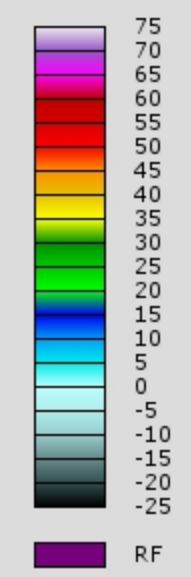




NEXRAD LEVEL-II
KHGX - HOUSTON, TX
10/04/2016 23:25:47 GMT
LAT: 29/28/18 N
LON: 95/04/43 W
ELEV: 18 FT
VCP: 11

REFLECTIVITY
ELEV ANGLE: 0.55
SWEEP TIME: 23:25:51 GMT

Legend: dBZ



RAOB: 0000UTCSOUNDING.CSV //

Data Type: CSV Integrated data levels: 39

Lat: 29°16'00" N Lon: 95°05'00" W Elev: 0 meters

Height Pres	T	Td	RH	DD/FF	CAT	LLWS	Icing - Type	WAVE/x---W---turb--
Level (ft-MSL) (mb)	(C)	(C)	(%)	(deg/kts)				nm fpm max

1	0	1009	27.1	23.9	83	119/8		
2	261	1000	26.9	23.0	79	118/10	LGT	
3	996	975	24.7	21.4	82	122/14		
4	1744	950	22.7	20.0	85	126/14		
5	2507	925	21.2	17.4	79	131/14		
6	3286	900	19.9	15.9	78	128/12		
7	4084	875	18.8	15.1	79	124/11		
8	4901	850	17.5	14.0	80	121/11		
9	5739	825	16.2	13.0	81	123/10		
10	6598	800	14.9	11.9	82	126/10		
11	7480	775	13.4	10.5	83	132/9		
12	8386	750	12.0	9.0	82	137/8		
13	9308	725				141/6		
14	9318	725	10.6	6.6	76			
15	10266	700				141/3		
16	10276	700	8.7	3.8	71			
17	12264	650				230/2		
18	12276	650	4.6	-4.0	54			
19	14390	600				270/5		
20	14408	600	2.5	-19.6	18			
21	16683	550				272/9		
22	16700	550	-0.8	-29.0	10			
23	19154	500				256/12	2.54	205 LIGHT
24	19172	500	-5.9	-26.2	18			
25	21834	450				252/18	2.95	256 LIGHT
26	21853	450	-11.1	-30.3	19	LGT	3.88	122 LIGHT
27	24761	400				258/28	4.68	204 LIGHT
28	24782	400	-17.7	-40.0	12	LGT		
29	27986	350				251/40	7.70	294 LIGHT
30	28012	350	-25.3	-45.3	14	LGT		
31	31591	300				252/51	9.87	327 LIGHT
32	31622	300	-33.6	-54.8	10	LGT		
33	35722	250				265/63		

34	35755	250	-40.9	-61.6	9	8.55	205	LIGHT
35	40587	200			261/51			
36	40629	200	-50.8	-68.8	10	7.28	349	LIGHT
37	46539	150			251/38			
38	46582	150	-64.8	-78.6	13			
39	54562	100	-71.9	-83.2	17			

Parcel Data	
Pres:	
Hgt:	
(MSL)	
±Std:	
Temp:	
Td:	
T-Td:	
RH:	
PT:	
ePT:	
L.R.:	
Tmax:	
Wind:	
Hgt:	
(MSL)	

