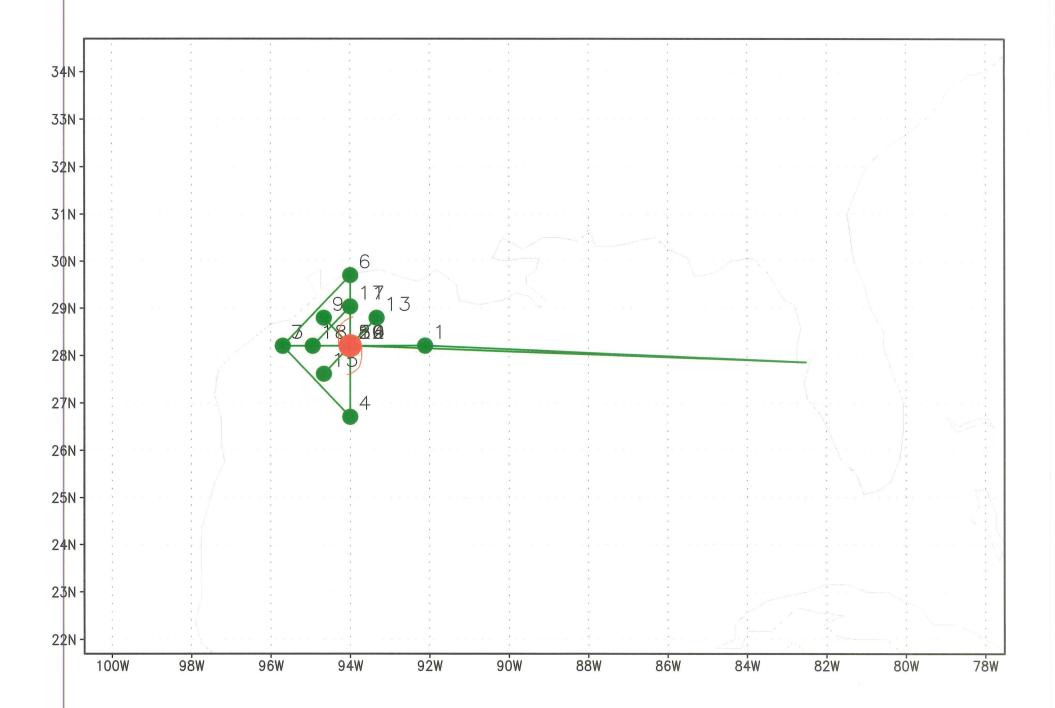
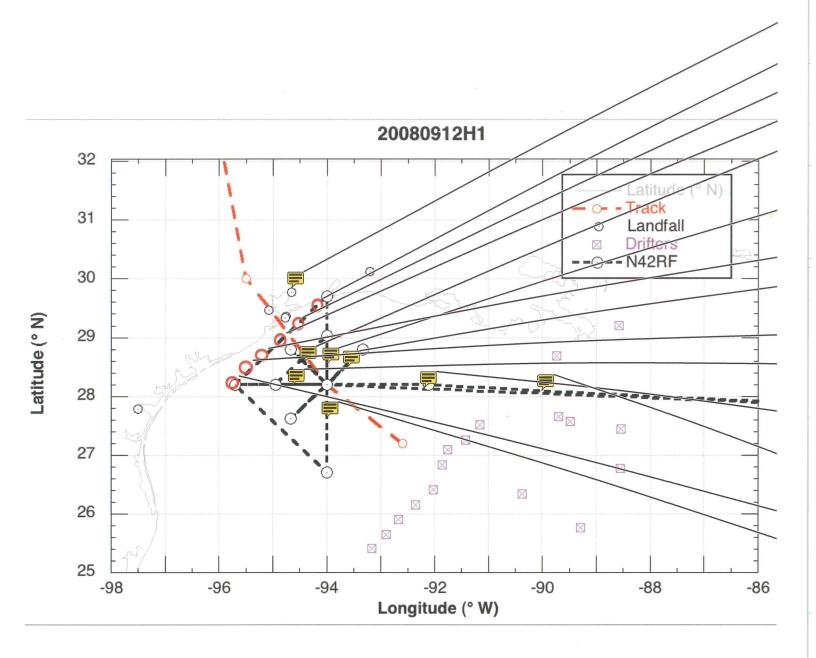
20080912H1 Scientist Log

Time	Comment
210339	TO MacDill AFB
211300	N42RF has a TA working, only scanning perpendicular to heading (no elevation control).
	If possible we will try to fly at 88D or research radars to get dual-Doppler
215800	No TA radar the Azimuth won't work either
223000	start descent to 8 kft, Houston 88D shows outer band just offshore at Galveston
223200	28 13, 90 00 AXBT#1 SST=26.5 at 8 kft
223900	entering large outer rainband on E side (75 nm from IP) rocking and rolling til 2242
224440	28 11, 90 55 AXBT#2 SST bad
224500	AF fix 28 06 N 093 50 W, motion 305/10
225922	IP COMBO AXBT#3 SST=25.9, dropsonde #1 very weird AXBT temp increased after splash for long time as high as 26.3
	start penetration (1)
231125	mid point COMBO AXBT#4 SST≃26.2, dropsonde #2, another weird AXBT with long temps above 26
232615	turn TK N in eye (saw AFRC in eye) 28 14, 93 56 extrap 952
233425	N eyewall combo AXBT#5, dropsonde#3 AXBT bad
234615	turn TK 225 about 10 nm from coast pitching dropsondes out every 5 min
234755	dropsonde #4 N end of Bolivar Peninsula on shore wind
235257	dropsonde#5 right off Galveston on shore wind
235755	dropsonde #6 right off San Louis Pass along shore wind
240257	dropsonde#7 offshore wind shallow water for SFMR
240755	dropsonde#8 offshore wind shallow water near Matagorda Bay & Peninsula
241151	at point 2 W of center turn TK 090 to center
241243	dropsonde #9 offshore
243315	W eyewall combo AXBT#6 SST 27.5, dropsonde #10 (penetration 2)
243842	center 28 20, 94 14, turn TK 315 extrap 951 mb (Jim McFadden just broke Harlan Davis' penetration record with 551)
	and did a live CNN interview in the eye
245300	NW eyewall combo AXBT# 7 (bad), dropsonde #11, best looking convection of the day - lots of heavy rain though
245855	dropsonde #12 just offshore Galveston Beach orbiting waiting for QuikSCAT pass
250740	dropsonde #13 just offshore Galveston again as we turn TK 135 to center (penetration 3)
251311	NW eyewall combo AXBT#8 (bad), dropsonde#14
252100	center 28 24, 94 16
252601	S eyewall combo AXBT#9 SST 27.5, dropsonde #15
253310	turn TK 360 back to eye lightning visibte in W eyewall (penetration 4)
254447	center 28 22, 94 15 Eye appears to be wrapping around to NE form smaller eye maybe reacting to land
255145	NE eyewall combo AXBT#10 SST 27.3, dropsonde #16 in new NE eywall
255500	turn TK 225 to center 50 nm from center (penetration 5)
261658	S eyewall dropsonde #17 No PTH data on this sonde
262350	turn Tk 360 to center (penetration 6)
263700	center 28 33, 94 27 TK 350 to point upwind of UAH location
264514	N eyewall dropsonde#18
265046	dropsonde#19 as close to UAH as possible on inside edge of major band along the coast (penetration 7)
270403	center 28 35 94 28, TK 090 for 105 nm then to MacDill
271140	E eyewall dropsonde#20
271947	last dropsonde#21 on inner edge of outer band
273400	start climb out for home Storm center is still 4-5 hours from crossing shore. Outer major band on shore moving inland
	got one run down coast and twice wne up to coast near Galveston and Bolivar Peninsula to drop sondes for landbase teams

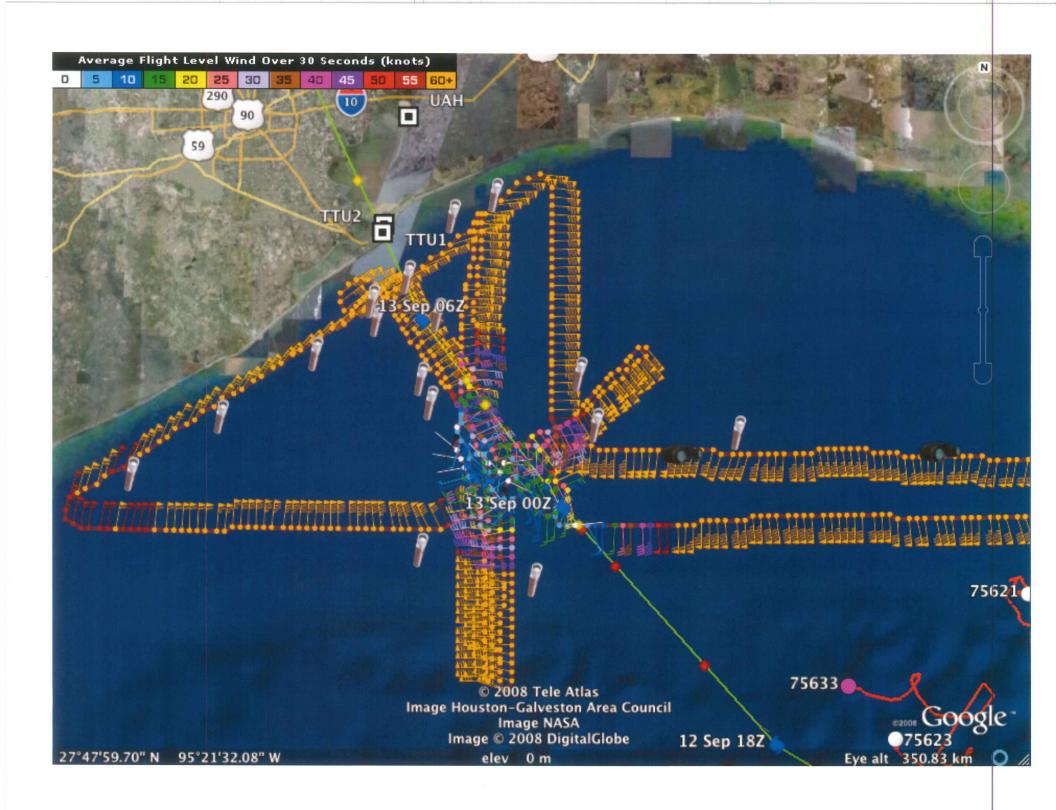
Dropsondes -- 21/20 transmitted AXBT --10/6 worked Penetrations -- 7

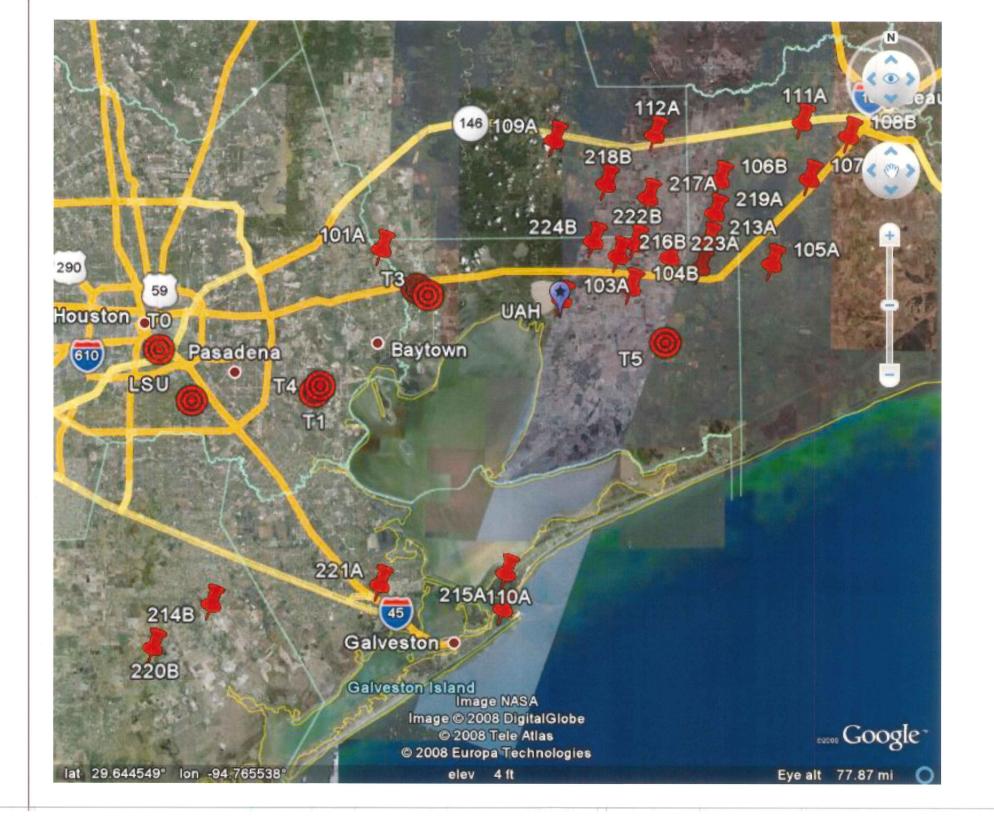




Summary of Comments on 20080912H1_ftk_loc.pdf

Page: 1		
Author: n42rf HRD macbook	Pate: 9/12/08 5:31:47 PM	
n42rf HRD macbook - Sep 12, 2		
Author: n42rf HRD macbook	vate: 9/12/08 8:18:32 PM	
0		
Author: n42rf HRD macbook	ate: 9/12/08 8:19:04 PM	
Author: n42rf HRD macbook	ate: 9/12/08 8:23:33 PM	
Author: n42rf HRD macbook n42rf HRD macbook - Sep 12, 20	ate: 9/12/08 8:57:01 PM	
NW eyewall combo bad AXBT		
2nd NW eyewall combo bad AXE		
	ate: 9/12/08 7:37:47 PM	
n42rf HRD macbook - Sep 12, 20 Combo eyewall BT failed	08 7:37 PM	
Author: n42rf HRD macbook	ate: 9/12/08 8:24:37 PM	
Author. 114211 HAD IIIacbook	ate. 9/12/06 6.24.37 FW	
	ate: 9/12/08 9:54:43 PM	
n42rf HRD macbook - Sep 12, 20 NW eyewall Combo SST 27.3	8 9:54 PM	
Author: n42rf HRD macbook	ate: 9/12/08 8:24:54 PM	
Author: n42rf HRD macbook	ate: 9/12/08 8:34:28 PM	
n42rf HRD macbook - Sep 12, 20 combo W eyewall SST=27.5	98 8:34 PM	
Author: n42rf HRD macbook	ate: 9/12/08 7:01:54 PM	
n42rf HRD macbook - Sep 12, 20 combo 1 SST=25.9		
Author: n42rf HRD macbook	ate: 9/12/08 6:51:02 PM	
n42rf HRD macbook - Sep 12, 20 AXBT#1 SST 26.5		
Author: n42rf HRD macbook	ate: 9/12/08 8:27:43 PM	
Author: n42rf HRD macbook	ate: 9/12/08 9:27:12 PM	
n42rf HRD macbook - Sep 12, 20 S eyewall combo SST 27.5	8 9:27 PM	







National Weather Service

National Hurricane Center



Home

News

Organization

Search

Go

Local forecast by "City, St" or "ZIP" Go

Alternate versions Text-only | PDA | Cell

Get Storm Info

Satellite | Radar **Aircraft Recon Advisory Archive** Experimental **Mobile Products** E-mail Advisories Audio/Podcasts GIS Data | RSS 🔯 Help with Advisories

Marine Forecasts

Forecast and **Analysis Tools Help with Marine**

Hurricane Awareness

Be Prepared | Learn **Frequent Questions AOML Research Hurricane Hunters** Saffir-Simpson Scale **Forecasting Models Eyewall Wind Profiles** Glossary/Acronyms Storm Names **Breakpoints**

Hurricane History

Seasons Archive Forecast Accuracy Climatology **Most Extreme**

About the NHC

Mission and Vision Personnel | Visitors **NHC Virtual Tour** Library Joint Hurr Testbed The NCEP Centers

Contact Us - Help



Hurricane IKE Forecast Discussion

Home Public Adv Fcst/Adv Discussion Wind Probs Maps/Charts Archive

US Watch/Warning Storm Surge Position Estimate

999 WTNT44 KNHC 130259 TCDAT4

HURRICANE IKE DISCUSSION NUMBER 48 NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL AL092008

1100 PM EDT FRI SEP 12 2008

Atlantic and E Pacific A PLETHORA OF DATA FROM NOAA DOPPLER WEATHER RADARS...NOAA AND AIR FORCE RECONNAISSANCE AIRCRAFT...AND SATELLITE IMAGERY ALL INDICATE THAT THE STRUCTURE OF IKE HAS IMPROVED MARKEDLY OVER THE PAST 6 HOURS...AND A 40 NMI DIAMETER EYE HAS BECOME PROMINENT. THE LOWEST PRESSURE REPORTED BY RECON HAS BEEN 952 MB. DOPPLER RADAR VELOCITIES IN THE NORTHERN EYEWALL AT 6500 FT HAVE BEEN AS HIGH AS 114 KT...AND A DROPSONDE IN THAT SAME AREA MEASURED A PEAK WIND VALUE OF 116 KT. MAXIMUM FLIGHT-LEVEL WINDS AT 700 MB HAVE RANGED FROM 103-105 KT...AND A RELIABLE SFMR SURFACE WIND SPEED OF 90 KT WAS MEASURED IN THE SOUTHERN EYEWALL AROUND 0140Z. ALL OF THIS INFORMATION CORRESPONDS TO A MAXIMUM SURFACE WIND SPEED ESTIMATE OF 95 KT.

> THE LARGE EYE OF IKE HAS BEEN WOBBLING CONSIDERABLY OVER THE PAST 6 HOURS...BUT A GENERAL MOTION OF 315/10 SEEMS TO HAVE BEEN THE PREFERRED DIRECTION OF TRAVEL. SHORT TERM EXTRAPOLATION WOULD PLACE THE CENTER OF IKE ALONG GALVESTON ISLAND AND/OR THE UPPER-TEXAS COAST SHORTLY BEFORE SUNRISE SATURDAY MORNING. AFTER LANDFALL...IKE IS EXPECTED TO CONTINUE MOVING AROUND THE WESTERN PERIPHERY OF A SUBTROPICAL RIDGE SITUATED EAST-WEST ALONG THE NORTHERN GULF COAST AND TURN NORTHWARD IN ABOUT 12-18 HOURS...AND THEN RECURVE RAPIDLY TO THE NORTHEAST BY 24 HOURS AHEAD OF A FAST APPROACHING FRONTAL SYSTEM. BY 36-48 HOURS...IKE MAY BECOME ABSORBED BY THE FRONTAL SYSTEM OVER THE UPPER MIDWEST. THE OFFICIAL FORECAST TRACK IS ESSENTIALLY JUST AN UPDATE OF THE PREVIOUS TRACK...AND IS DOWN THE MIDDLE OF THE TIGHTLY CLUSTERED NHC MODEL GUIDANCE.

IKE STILL HAS ABOUT A 6-HOUR WINDOW OF OPPORTUNITY TO STRENGTHEN INTO A 100-KT MAJOR HURRICANE. EQUALLY IMPORTANT...HOWEVER...IS THE EFFECT THAT STRONGER WINDS ALOFT WILL HAVE ON HIGH RISE BUILDINGS. WIND DATA FROM LAND-BASED DOPPLER RADARS AND AIRCRAFT DROPSONDES INDICATE THAT WINDS NEAR CATEGORY 4 STRENGTH...115 KT OR 130 MPH ...EXIST JUST A FEW HUNDRED FEET ABOVE THE SURFACE. THERE COULD BE A REPEAT OF DAMAGE TO WINDOWS IN HIGH RISE STRUCTURES SIMILAR TO WHAT OCCURRED DURING HURRICANE ALICIA IN 1983. THE PEAK WIND SPEED AND VARIOUS WIND RADII WERE HELD HIGHER THAN OUR INLAND WIND DECAY MODELS ARE PREDICTING DUE TO THE MUCH LARGER SIZE OF IKE.

ONE SHOULD EMPHASIZE THAT IKE IS A VERY LARGE HURRICANE AND REGARDLESS OF WHERE THE CENTER OF THE HURRICANE MAKES LANDFALL...THE EFFECTS WILL BE FELT AT LARGE DISTANCES FROM THE CENTER. IN ADDITION...THE LARGEST STORM SURGE WILL OCCUR WITHIN THE ONSHORE FLOW NEAR OR JUST AFTER LANDFALL. WATER LEVELS HAVE ALREADY RISEN MORE THAN 9 TO 12 FEET ACROSS A LARGE AREA OF THE NORTHWESTERN GULF OF MEXICO...INCLUDING GALVESTON ISLAND.

FORECAST POSITIONS AND MAX WINDS

INITIAL	13/0300Z 28.6N	94.4W	95 KT
12HR VT	13/1200Z 30.3N	95,4W	70 KTINLAND
24HR VT	14/0000Z 33.2N	95.3W	35 KTINLAND
36HR VT	14/1200Z 36.6N	92.3W	30 KTBECOMING EXTRATROPICAL
48HR VT	15/0000Z 40.5N	86.0W	25 KTEXTRATROPICAL INLAND
72HR VT	16/0000ZABS0	RBED BY A	FRONTAL ZONE

\$\$ FORECASTER STEWART/BLAKE/BERG

Quick Navigation Links:

NHC Active Storms - Atlantic and E Pacific Marine - Storm Archives

Hurricane Awareness - How to Prepare - About NHC - Contact Us

N OAA/ N ational Weather Service
N ational Centers for Environmental Prediction
N ational H urricane Center
Tropical Prediction Center
11691 SW 17th Street
M iami, Florida 33165-2149 USA
nhcwebmaster@noaa.gov
Page last modified: Saturday, 13-Sep-2008 03: 00: 25 GM T

Disclairrer Privacy Policy
Credits Freedomof Information Act (FOIA)
Information Quality About Us
Glossary Career Opportunities