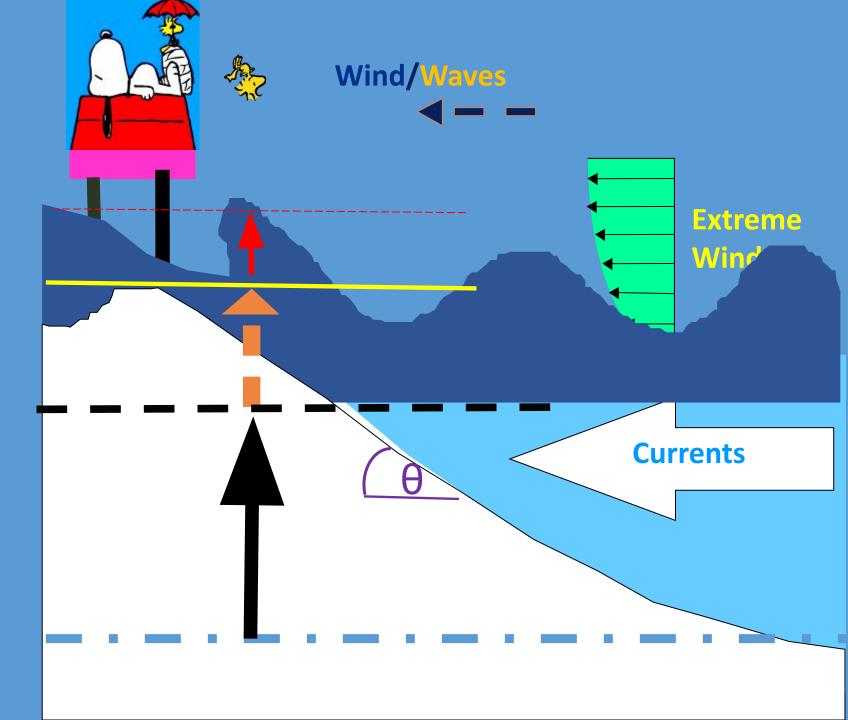


Storm Surge

ave Runup **WIND Set-Up WATER DEPTH**



HURRICANE CATEGORY

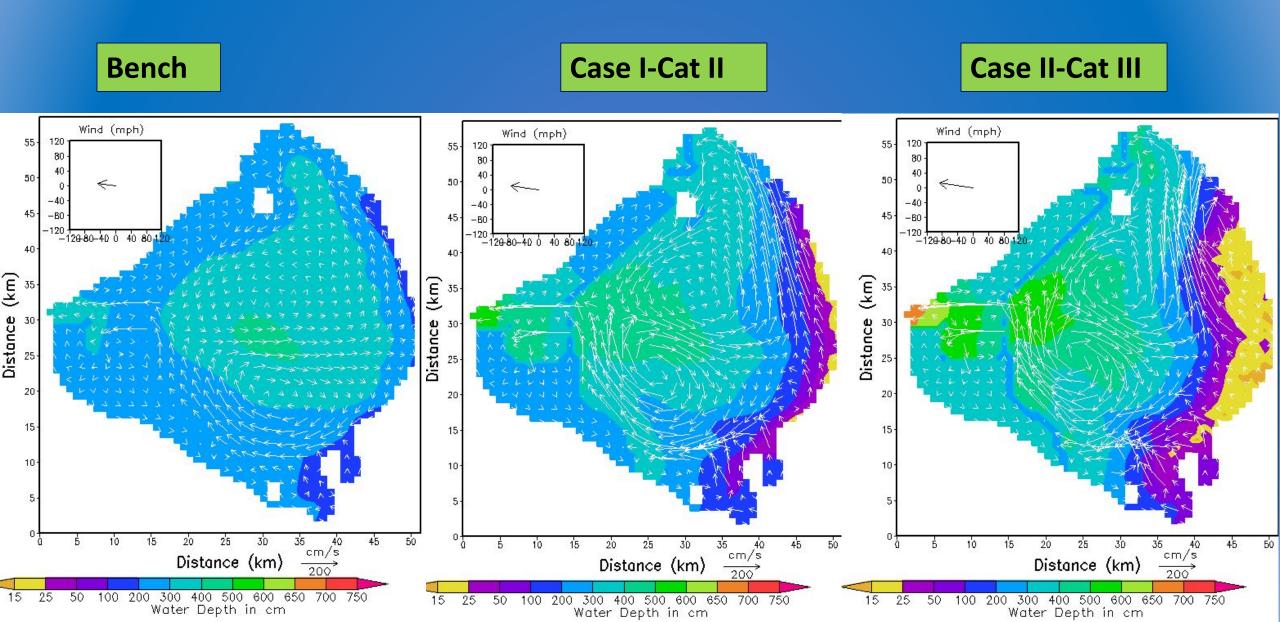
- Category 1 Sustained winds 74-95 mph
- Category 2 Sustained winds 96 to 110 mph
- Category 3 Sustained winds 111-130 mph (178-208 kph)
- Category 4 Sustained winds 131 to 155 mph
- Category 5 Sustained winds over 155 mph



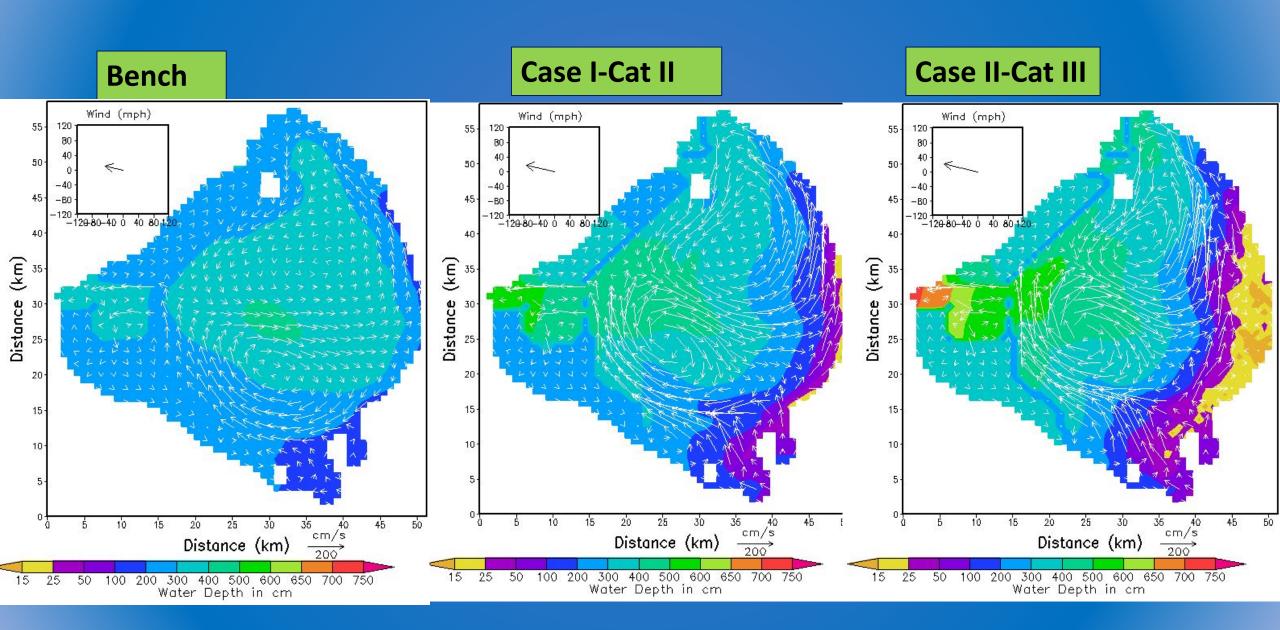


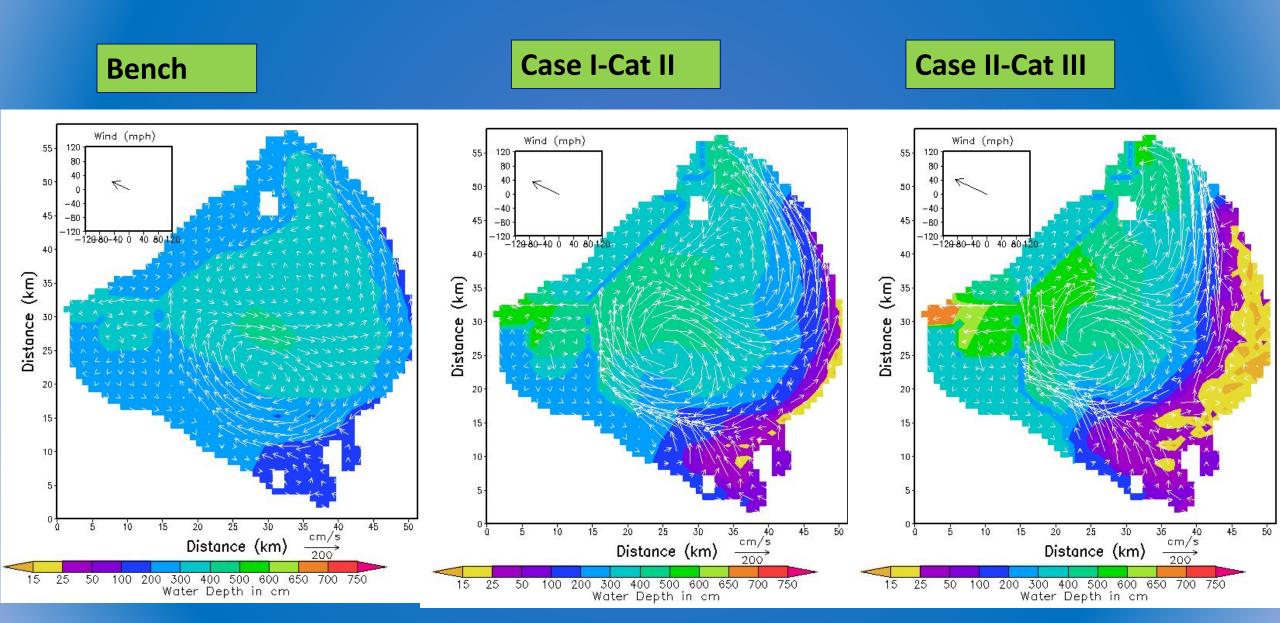
4:00PM, 9/10/2017.

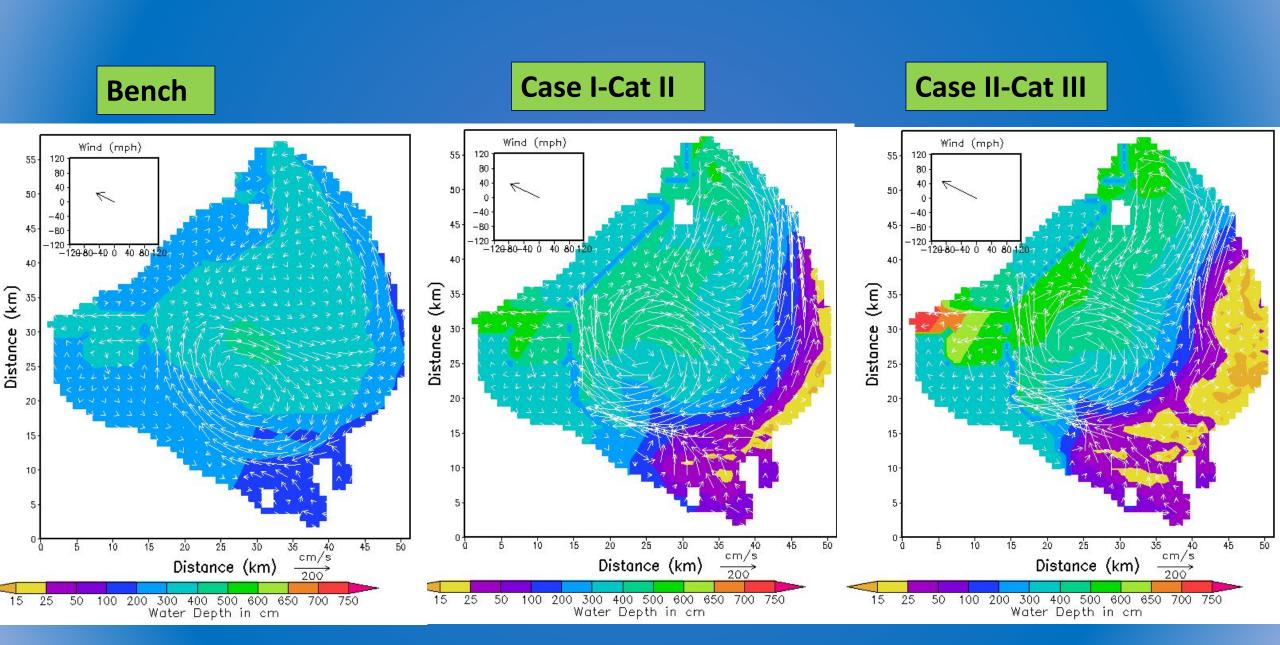
Bench =63mph; Case I=Bench*1.58=100mph; Case II =Bench*1.9=120mph

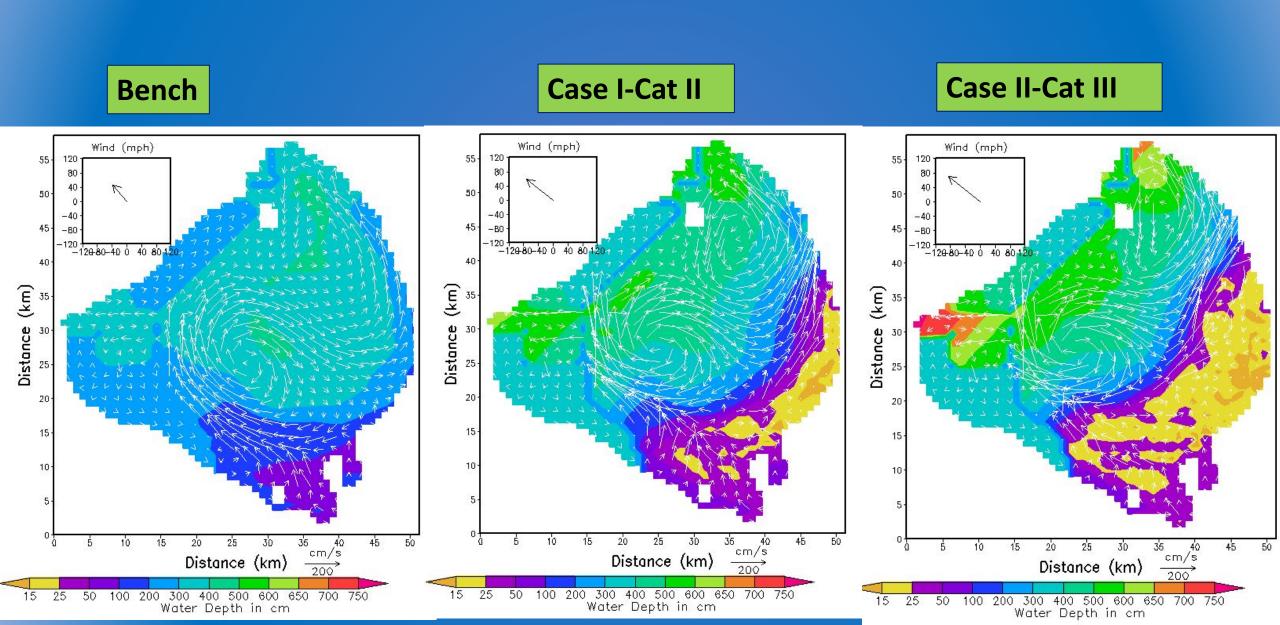


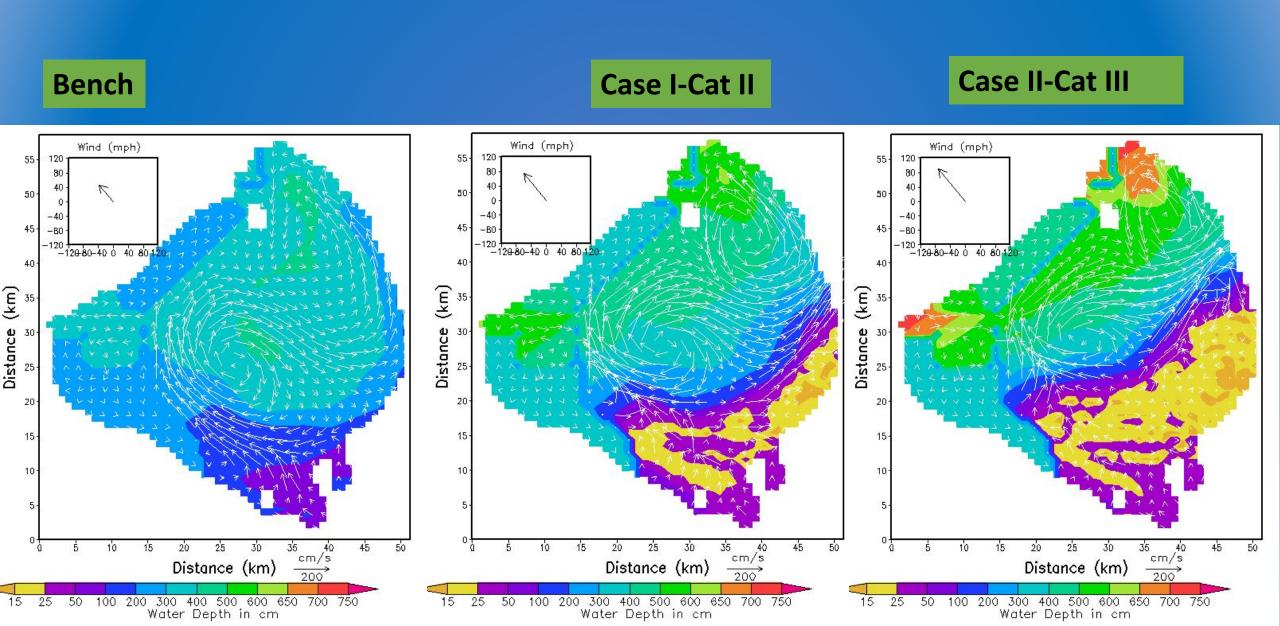
5:00PM, 9/10/2017.



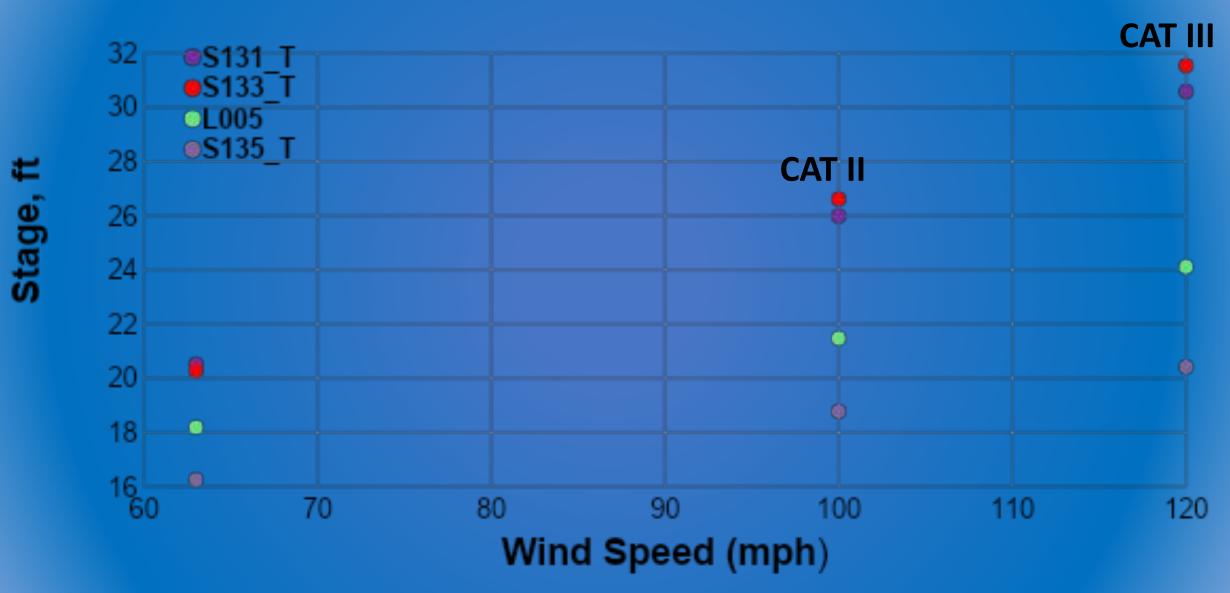


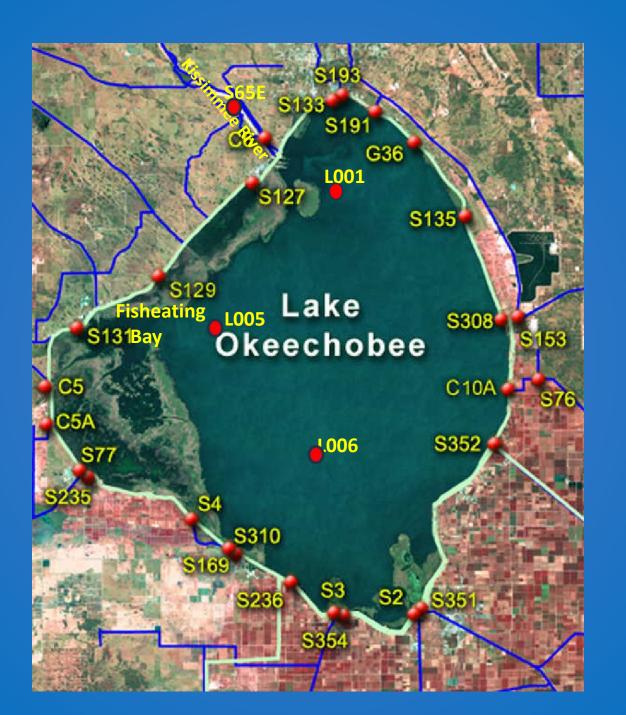






Stage/Wind Speed under Hurricane Irma

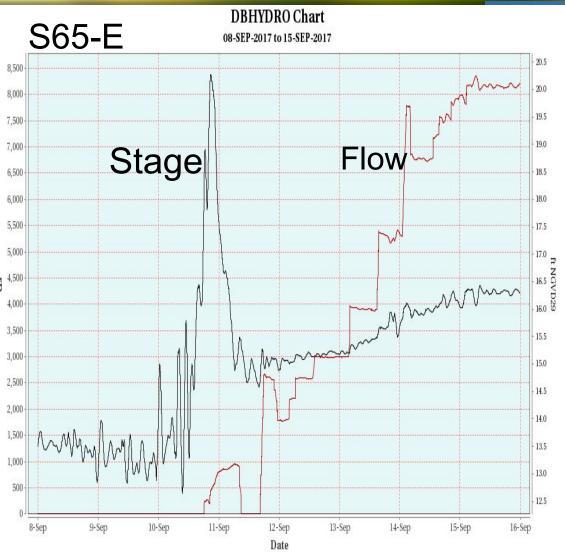




Velocity Current / Wind Speed

Wind Speed			63 mph			100mph			120mph
Current Velocity	u '	v	V (cm/s)	u y	v	V (cm/s)	u	v	V (cm/s)
S352_H	25.24	23.49	34.48	44.07	-37.67	57.98	80.92	48.42	94.30
\$135_T	7.56	74.01	74.40	83.05	90.52	122.85	134.00	160.05	208.74
S131_T	22.96	25.18	34.08	32.63	32.98	46.39	34.89	33.54	48.40
S133_T	8.38	14.49	16.74	7.03	22.45	23.52	8.74	27.71	29.06
S308_H	22.19	103.10	105.46	22.19	106.30	108.59	80.92	107.72	134.73

Hurricane-induced Lake storm surge/erosion in inflow canals







Current Erosion WILMA 2005

SUMMARY

(1) Storm Surge Significant -NW/N/NE side of Lake Okeechobee

	Hurricane Irma		
Normal Condition	(63mph)	Cat II (100mph)	Cat III (120mph)
13 ft	20 ft	26 ft	31 ft

- (1) Significant erosion along the lake due to the circulation pattern, current velocity ~ 1m/s (2 m/s) from S308 to S135
- (2) Calibrated/Verified LOEM RMSE/VAR< 3% (12 Sites)