

Symposium:

**Supplemental Mosquito
Control Programs in Alabama,
Mississippi, Louisiana, and
Texas Following Hurricanes
Katrina and Rita.**

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CDC-DVBID

AMCA 2008, Reno, Nevada



120° 115° 110° 105° 100° 95° 90° 85° 80° 75° 70° 65° 60° 55° 50° 45° 40° 35° 30° 25° 20° 15° 10° 5° West 0° East 5°

NATIONAL HURRICANE CENTER

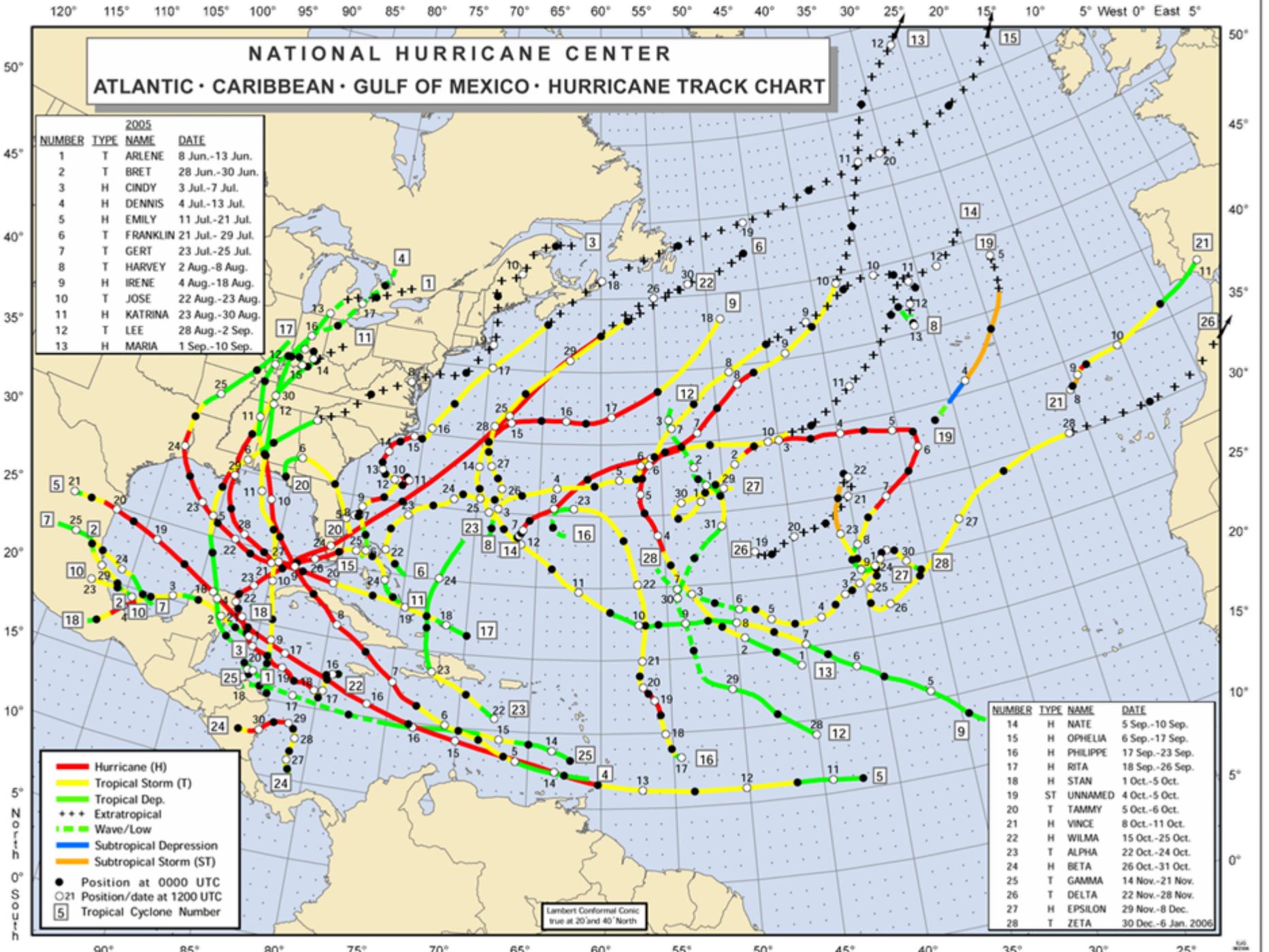
ATLANTIC • CARIBBEAN • GULF OF MEXICO • HURRICANE TRACK CHART

NUMBER	TYPE	2005 NAME	DATE
1	T	ARLENE	8 Jun.-13 Jun.
2	T	BRET	28 Jun.-30 Jun.
3	H	CINDY	3 Jul.-7 Jul.
4	H	DENNIS	4 Jul.-13 Jul.
5	H	EMILY	11 Jul.-21 Jul.
6	T	FRANKLIN	21 Jul.-29 Jul.
7	T	GERT	23 Jul.-25 Jul.
8	T	HARVEY	2 Aug.-8 Aug.
9	H	IRENE	4 Aug.-18 Aug.
10	T	JOSE	22 Aug.-23 Aug.
11	H	KATRINA	23 Aug.-30 Aug.
12	T	LEE	28 Aug.-2 Sep.
13	H	MARIA	1 Sep.-10 Sep.

- Hurricane (H)
- Tropical Storm (T)
- Tropical Dep.
- +++ Extratropical
- Wave/Low
- Subtropical Depression
- Subtropical Storm (ST)
- Position at 0000 UTC
- Position/date at 1200 UTC
- 5 Tropical Cyclone Number

NUMBER	TYPE	NAME	DATE
14	H	NATE	5 Sep.-10 Sep.
15	H	OPHELIA	6 Sep.-17 Sep.
16	H	PHILIPPE	17 Sep.-23 Sep.
17	H	RITA	18 Sep.-26 Sep.
18	H	STAN	1 Oct.-5 Oct.
19	ST	UNNAMED	4 Oct.-5 Oct.
20	T	TAMMY	5 Oct.-6 Oct.
21	H	VINCE	8 Oct.-11 Oct.
22	H	WILMA	15 Oct.-25 Oct.
23	T	ALPHA	22 Oct.-24 Oct.
24	H	BETA	26 Oct.-31 Oct.
25	T	GAMMA	14 Nov.-21 Nov.
26	T	DELTA	22 Nov.-28 Nov.
27	H	EPSILON	29 Nov.-8 Dec.
28	T	ZETA	30 Dec.-6 Jan. 2006

Lambert Conformal Conic true at 20 and 40 North



North
South



National Hurricane Center Disclaimer: 'Wind Range Contours show the maximum extent of winds expected in each quadrant. Users are cautioned that winds vary greatly within each quadrant. For quadrants extending over land and water, over-water values are used, which may make the extent of inland wind radii appear unrealistically large'







Rita – Before & After Landfall







Hurricane Impacts

- **Short Term**
 - Produce large mosquito populations
 - Increase mosquito-borne disease potential
 - Disrupt mosquito surveillance and control capacity
- **Long Term**
 - Alter drainage patterns
 - Create new and/or different larval habitats
 - Potentially change arbovirus transmission patterns
 - Cause human population shifts
 - Disrupt mosquito surveillance and control capacity
 - Create need for mosquito control in new areas

**2006 Emergency Supplemental
Appropriations Act for Defense, the Global
War on Terror, and Hurricane Recovery
-- Conference Report --**

***CENTERS FOR DISEASE CONTROL AND PREVENTION
DISEASE CONTROL, RESEARCH, AND TRAINING***

***For an additional amount for "Disease Control,
Research, and Training", \$8,000,000, to remain
available until expended, for mosquito and other pest
abatement activities in States affected by Hurricane
Katrina and other hurricanes of the 2005 season:
Provided, That the amount provided under this
heading is designated as an emergency requirement
pursuant to section 402 of H. Con. Res. 95 (109th
Congress), the concurrent resolution on the budget for
fiscal year 2006.***

2006 Emergency Supplemental Appropriations Act for Defense, the Global War on Terror, and Hurricane Recovery

- **Signed into law as 109-234 on June 15, 2006.**
- **Made funds available to CDC for mosquito and other pest abatement activities in states affected by hurricanes of the 2005 season.**
- **Intent of funds was to provide financial support to county and local governments to conduct mosquito and other pest abatement activities.**

CDC Responsibilities

- **Execute Congressional mandate**
- **Develop grant program, solicit applications**
- **Determine funding levels for applicants**
- **Define applicant activities**
- **Monitor process and outcome**

Develop Grant Program

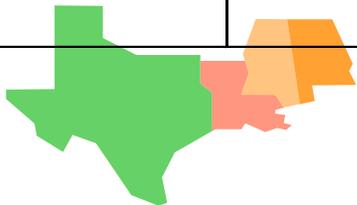
- **Use existing ELC program to distribute funds**
 - **Special solicitation to 4 states**
 - Alabama
 - Mississippi
 - Louisiana
 - Texas



Determine Funding Levels

- Based on the percentage of each state's population residing in counties approved for FEMA assistance in that state.

State	Population in IA and PA counties	Population in remaining counties	Total population	Prop of pop in disaster counties	Indexed Prop of total	State Allocation	Total Available
AL	858810	3698998	4557808	0.19	0.10	\$797,927	\$7,980,000
LA	3420774	1102854	4523628	0.76	0.40	\$3,202,283	
MS	1980531	940557	2921088	0.68	0.36	\$2,871,172	
TX	5984608	16875360	22859968	0.26	0.14	\$1,108,619	
Grand Total	12244723	22617769	34862492				
			Sum	1.88			



Define Applicant Activities

- **Determine local hurricane-related mosquito and pest control needs**
- **Distribute funds to local and county agencies.**
- **Monitor activities supported by funds.**
- **Assist local and county governments**
 - **enhance existing**
 - **and/or establish new mosquito and pest control programs.**
- **Document activities supported with these funds and provide summary reports.**

Summary Report (This Symposium)

Supplemental Mosquito Control Programs

- Alabama
 - Parrish Pugh
 - Alabama Department of Public Health
- Mississippi
 - Kristine Edwards
 - Mississippi Department of Health
- Louisiana
 - Kyle Moppert
 - Louisiana Department of Health and Hospitals
- Texas
 - Roy Burton
 - Texas Department of State Health Services