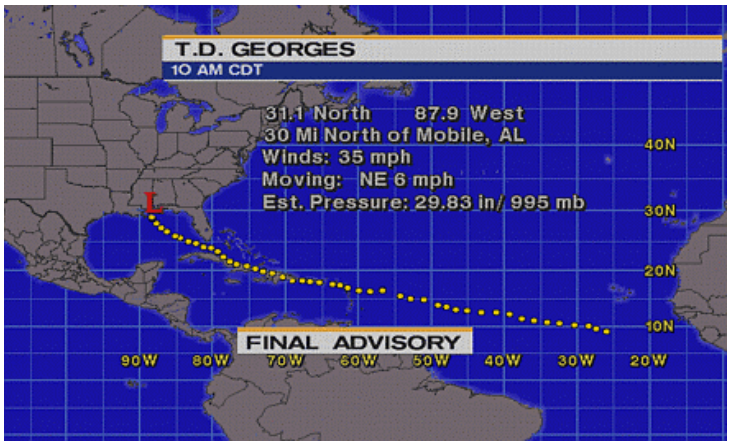
# Hurricane Georges
# September 1998

On September 15th, a tropical depression formed in the far eastern Atlantic Ocean about 400 miles south-southwest of the Cape Verde Islands. The depression had actually evolved from a disturbance that had moved off the African coast several days prior. The depression moved west at 20 mph and was classified as tropical storm Georges the following morning. As the storm system continued westward, steady intensification continued. By late afternoon on September 17th, Georges was updated to a hurricane. Over the next two days, Georges continued to move on a course slightly north of due west. As the hurricane approached to within 400 miles of the Leeward Islands, sudden and rapid intensification ensued. On the afternoon of September 19th, with the storm only a couple of hundred miles east of the Caribbean, Georges was packing 150-mph winds. This made it a dangerous category 4 hurricane on the Saffir-Simpson scale. Inexplicably, the hurricane weakened to a category 2 type storm as it moved westward through the Leeward, U. S., and British Virgin Islands on September 20th and 21st. On the night of the 21st, the hurricane passed directly over the entire island of Puerto Rico with winds in excess of 100 mph. Torrential rainfall, locally up to 20 inches, swamped the island. To date, damage estimates are already over two billion dollars in Puerto Rico alone. During the next three days hurricane Georges tracked further westward across the Dominican Republic, Haiti, and




**The classic long track of the "Cape Verde" hurricane, Georges September 1998.**

AP Photo/Daniel Morel

**La Croix Catholic church which was destroyed by flooding from Hurricane Georges in Fonds Verrettes, about 50 miles (85 kms) west of the capital of Port-au-Prince, Haiti Wednesday, Sept. 30,1998. The village was almost totally wipeout by the floodwaters, and at least 86 people have died.**

Cuba. Weakened only slightly by the mountainous terrain, devastating mudslides killed hundreds of people, especially in the Dominican Republic. Preliminary reports indicate that some 300 have perished and over 500 are missing.

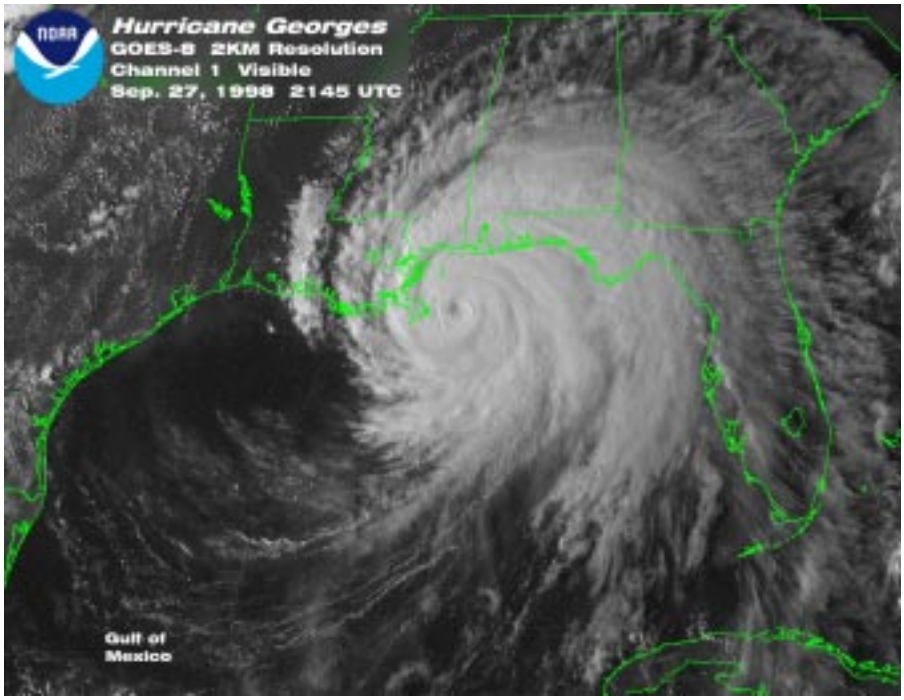
AP Photo/Dave Martin

**Debris from destroyed houseboats is scattered across the road near Houseboat Row in Key West, Fla., on Friday, Sept. 25, 1998 as 90 mph winds batter the island city as the eye of Hurricane Georges passes nearby. The storm destroyed several dozen houseboats and caused considerable damage from wind and flooding.**

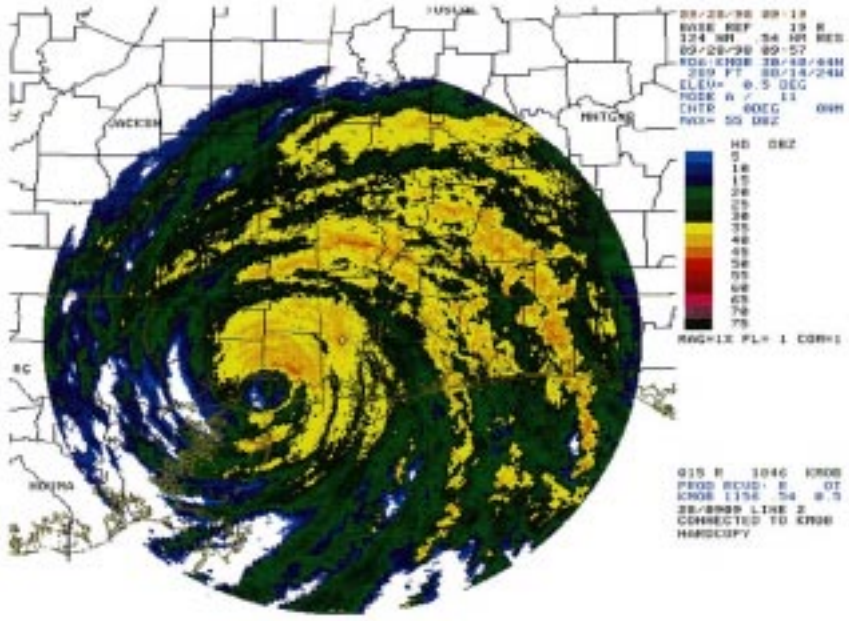
**O**n the afternoon of September 24th, Georges emerged off the north coast of Cuba. Moving into the warm waters of the Florida Straits, the hurricane began to re-intensify. Pursuing a west-northwest track, the eye of the storm passed directly over Key West, Florida on the afternoon of the 25th. Winds gusted up to 115 mph throughout the lower Florida Keys. September 26th found hurricane Georges over the open waters of the southeastern Gulf of Mexico. Gradually, the storm began to turn more to the northwest. By this time, Georges was a large storm with gale force winds extending nearly 200 miles to the north and east of the center. At 10 AM CDT, a hurricane warning was issued for the northern Gulf Coast extending from Morgan City, Louisiana eastward to St. Marks, Florida. Georges intensified only slightly as it approached the middle Gulf Coast on the 27th. By afternoon, the hurricane was centered just east of the mouth of the Mississippi River with maximum sustained winds of 110 mph. However, its movement had slowed to a crawl, drifting to the north at only 7 to 8 mph. Gale force winds were already buffeting the coastal areas.

**Photo/Sara Altmyer**

**The state pier in Gulf Shores, Alabama on Sunday morning at 9:30 am with a huge wave crashing over the end of it. Hurricane Georges did not make landfall for many hours after this.**




**Hurricane Georges Visible Satellite Image, 27 Sep 1998**



**Hurricane Georges Radar Return, 28 Sep 1998 09:19**

**H**urricane Georges made landfall at 6 AM CDT Monday, September 28th in the Ocean Springs/Biloxi, Mississippi area. The large eye was partially over Ocean Springs as clear skies and stars were observed. Maximum sustained winds at landfall were 105 mph in a small area east of the center. This officially made Georges a strong category 2 hurricane. The lowest pressure measured at landfall was 28.37 inches. Keesler Air Force Base reported wind gusts of 90 to 100 mph. Over on the Alabama coast, Dauphin Island measured 80 mph winds. Other peak wind gusts included Mobile, AL with 63 mph; Pensacola, FL with 62 mph; and Destin, FL with 57 mph. Georges stalled on the coast shortly after making landfall, and by Monday evening had drifted only slightly inland. The storm weakened rapidly after moving ashore and was downgraded to a tropical storm at 4 PM Monday. As the weakening system moved slowly east-northeast, the final advisory on the storm was issued at 10 AM Tuesday, September 29th. At this time tropical depression George was centered some 30 miles north-northeast of Mobile, AL. The remnants of Georges then drifted slowly eastward across extreme south Alabama and the Florida panhandle.


AP Photo/The Mobile Register, John David Mercer

**The shell of a swimming pool rests behind the burned remains of Dolphin Condominiums in Orange Beach, Ala. Tuesday Sept. 29, 1998. The complex burned to the ground late Sunday evening as Hurricane Georges made its approach along the Gulf Coast.**

AP **Photo/Mobile Register, G.M.**

**Sailboats and debris clutter the lawn of a home on Dog River on the Mobile Bay tributary by the winds and storm surge of Hurricane Georges south of Mobile, Ala. Wednesday, Sept. 30, 1998.**

**B**ecause of the slow movement of the storm, coastal tidal surge and torrential rainfall was prolonged. Preliminary storm surge estimates included Pascagoula, MS with 9.6 feet; Mobile, AL with 8.5 feet; and Gulf Shores, AL with 9 feet. Locally, up to 20 to 30 inches of rain inundated southwest Alabama and the Florida panhandle. Near Milton, FL an unofficial report measured 38.46 inches. Bay Minette, AL measured 29.66 inches; Andalusia, AL 26.90 inches; Pensacola, FL 26.83 inches; and Eglin Air Force Base 24.24 inches. Every coastal river and stream from Mississippi to the Florida panhandle experienced serious, life-threatening flooding. All-time record flood stages were measured at Flomaton, AL on the Escambia River with 20.4 feet; at Milligan, FL on the Yellow River with 20.3 feet; at Crestview, FL on the Shoal River with 23 feet; and at Baker, FL on the Blackwater River with 28.9 feet. Further east, heavy rains of 10 to 20 inches fell across south/central Alabama on the 28th and 29th. Lesser amounts of 6 to 8 inches reached as far east as southwest Georgia and the Florida Big Bend area.

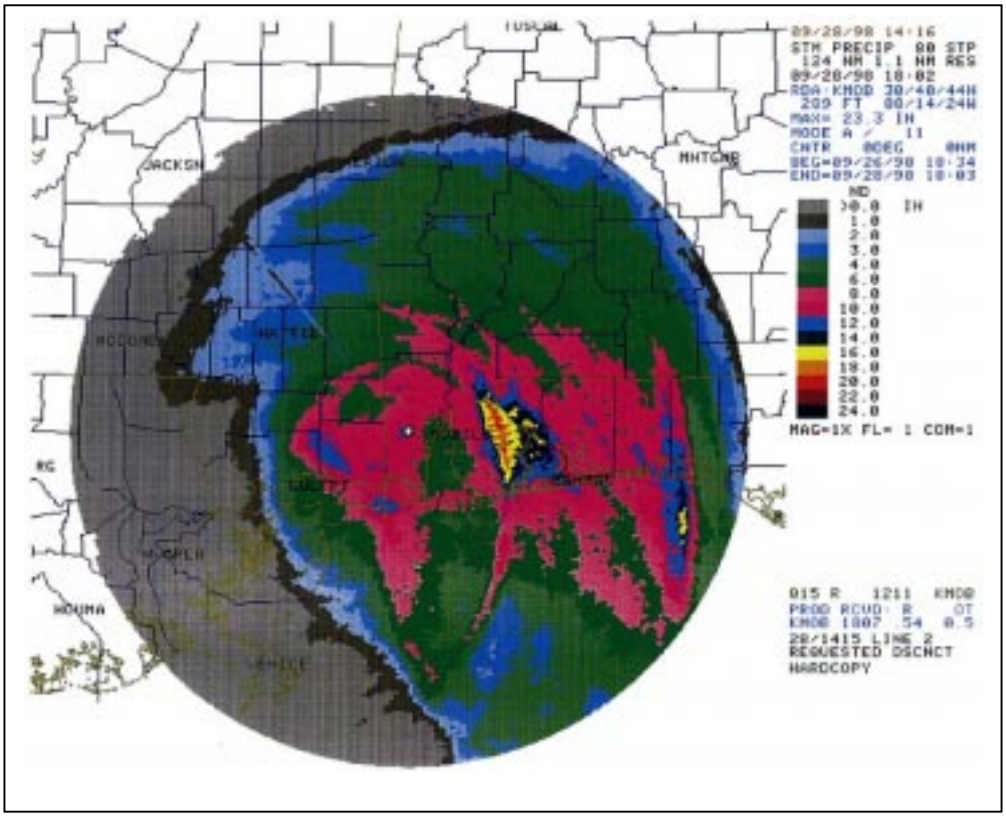

**Record floods occurred on many streams and rivers in the Florida Panhandle.**


AP Photo/Dave Martin

**Cars sit flooded in a parking garage along Water Street in Mobile on Monday, Sept. 28.**

**Water Street in downtown Mobile was under water as Hurricane Georges made landfall along the Mississippi Coast, causing extensive flooding in four states.**

All told, in the United States, there were four storm related fatalities as a result of Georges. Georges was a classic long-track "Cape Verde" hurricane which inflicted a long trail of destruction, death, and human suffering.




**Hurricane Georges Precipitation 26-28 September 1998**

## Hurricane Georges 15-29 September 1998

| ADV | LAT | LON | TIME | WIND (mph) | PR (mb) | STATUS |
|---|---|---|---|---|---|---|
| **1** | 9.0 | 25.9 | 09/15/15Z | 35 | 1006 | TROPICAL DEPRESSION |
| **2** | 9.5 | 27.4 | 09/15/21Z | 35 | 1006 | TROPICAL DEPRESSION |
| **3** | 10.1 | 28.4 | 09/16/03Z | 35 | 1006 | TROPICAL DEPRESSION |
| **4** | 10.2 | 30.3 | 09/16/09Z | 35 | 1006 | TROPICAL DEPRESSION |
| **5** | 10.5 | 32.4 | 09/16/15Z | 40 | 1005 | TROPICAL STORM |
| **6** | 10.7 | 34.0 | 09/16/21Z | 46 | 1004 | TROPICAL STORM |
| **7** | 11.0 | 35.8 | 09/17/03Z | 52 | 1000 | TROPICAL STORM |
| **8** | 11.4 | 37.5 | 09/17/09Z | 52 | 1000 | TROPICAL STORM |
| **9** | 12.2 | 39.2 | 09/17/15Z | 58 | 999 | TROPICAL STORM |
| **10** | 12.5 | 41.1 | 09/17/21Z | 75 | 987 | HURRICANE-1 |
| **11** | 12.6 | 43.1 | 09/18/03Z | 81 | 984 | HURRICANE-1 |
| **12** | 12.9 | 45.2 | 09/18/09Z | 92 | 978 | HURRICANE-1 |
| **13** | 13.1 | 46.6 | 09/18/15Z | 98 | 978 | HURRICANE-2 |
| **14** | 13.7 | 48.5 | 09/18/21Z | 104 | 970 | HURRICANE-2 |
| **14A** | 13.9 | 49.2 | 09/19/00Z | 104 | 970 | HURRICANE-2 |
| **15** | 14.0 | 50.0 | 09/19/03Z | 104 | 970 | HURRICANE-2 |

| | | | | | | |
|---|---|---|---|---|---|---|
| **15A** | 14.1 | 50.7 | 09/19/06Z | 104 | 970 | HURRICANE-2 |
| **16** | 14.4 | 51.3 | 09/19/09Z | 104 | 970 | HURRICANE-2 |
| **16A** | 14.6 | 52.0 | 09/19/12Z | 115 | 960 | HURRICANE-3 |
| **17** | 15.0 | 52.8 | 09/19/15Z | 127 | 948 | HURRICANE-3 |
| **17A** | 15.4 | 53.5 | 09/19/18Z | 127 | 949 | HURRICANE-3 |
| **18** | 15.7 | 54.4 | 09/19/21Z | 132 | 944 | HURRICANE-4 |
| **18A** | 15.8 | 55.0 | 09/20/00Z | 150 | 938 | HURRICANE-4 |
| **19** | 15.8 | 55.8 | 09/20/03Z | 150 | 939 | HURRICANE-4 |
| **19A** | 15.9 | 56.5 | 09/20/06Z | 150 | 939 | HURRICANE-4 |
| **20** | 16.1 | 57.1 | 09/20/09Z | 150 | 939 | HURRICANE-4 |
| **20A** | 16.1 | 57.8 | 09/20/12Z | 150 | 939 | HURRICANE-4 |
| **21** | 16.3 | 58.5 | 09/20/15Z | 150 | 939 | HURRICANE-4 |
| **21A** | 16.4 | 59.2 | 09/20/18Z | 132 | 949 | HURRICANE-4 |
| **22** | 16.5 | 59.9 | 09/20/21Z | 132 | 956 | HURRICANE-4 |
| **22A** | 16.7 | 60.6 | 09/21/00Z | 127 | 963 | HURRICANE-3 |
| **23** | 16.9 | 61.4 | 09/21/03Z | 115 | 966 | HURRICANE-3 |
| **23A** | 17.0 | 62.1 | 09/21/06Z | 115 | 966 | HURRICANE-3 |
| **24** | 17.4 | 63.1 | 09/21/09Z | 109 | 967 | HURRICANE-2 |
| **24A** | 17.5 | 63.7 | 09/21/12Z | 109 | 966 | HURRICANE-2 |
| **25** | 17.7 | 64.3 | 09/21/15Z | 109 | 966 | HURRICANE-2 |
| **25A** | 17.9 | 65.2 | 09/21/19Z | 109 | 972 | HURRICANE-2 |
| **26** | 18.0 | 65.6 | 09/21/21Z | 109 | 967 | HURRICANE-2 |
| **26A** | 18.1 | 66.0 | 09/21/23Z | 115 | 967 | HURRICANE-3 |
| **26B** | 18.2 | 66.4 | 09/22/01Z | 115 | 975 | HURRICANE-3 |
| **27** | 18.1 | 66.9 | 09/22/03Z | 109 | 978 | HURRICANE-2 |
| **27A** | 18.1 | 67.5 | 09/22/05Z | 109 | 978 | HURRICANE-2 |
| **27B** | 18.0 | 67.6 | 09/22/07Z | 109 | 974 | HURRICANE-2 |
| **28** | 18.1 | 68.0 | 09/22/09Z | 109 | 970 | HURRICANE-2 |
| **28A** | 18.2 | 68.3 | 09/22/11Z | 109 | 970 | HURRICANE-2 |
| **29** | 18.3 | 69.1 | 09/22/15Z | 121 | 962 | HURRICANE-3 |
| **29A** | 18.6 | 69.7 | 09/22/18Z | 121 | 965 | HURRICANE-3 |
| **30** | 18.8 | 70.3 | 09/22/21Z | 109 | 970 | HURRICANE-2 |
| **30A** | 18.9 | 71.3 | 09/23/00Z | 92 | 985 | HURRICANE-1 |
| **31** | 19.1 | 71.9 | 09/23/03Z | 81 | 986 | HURRICANE-1 |
| **31A** | 19.2 | 72.5 | 09/23/06Z | 75 | 986 | HURRICANE-1 |
| **32** | 19.5 | 73.3 | 09/23/09Z | 75 | 986 | HURRICANE-1 |
| **32A** | 19.8 | 73.8 | 09/23/12Z | 75 | 987 | HURRICANE-1 |
| **33** | 19.7 | 74.2 | 09/23/15Z | 75 | 996 | HURRICANE-1 |
| **33A** | 19.5 | 74.7 | 09/23/18Z | 75 | 995 | HURRICANE-1 |
| **34** | 19.8 | 75.1 | 09/23/21Z | 75 | 995 | HURRICANE-1 |
| **34A** | 20.3 | 75.3 | 09/24/00Z | 75 | 992 | HURRICANE-1 |
| **35** | 20.6 | 75.7 | 09/24/03Z | 75 | 992 | HURRICANE-1 |
| **35A** | 20.7 | 76.0 | 09/24/06Z | 75 | 992 | HURRICANE-1 |
| **36** | 21.1 | 76.7 | 09/24/09Z | 75 | 992 | HURRICANE-1 |
| **36A** | 21.1 | 77.0 | 09/24/12Z | 75 | 989 | HURRICANE-1 |
| **37** | 21.5 | 77.5 | 09/24/15Z | 81 | 989 | HURRICANE-1 |
| **37A** | 22.1 | 77.9 | 09/24/18Z | 81 | 989 | HURRICANE-1 |
| **38** | 23.8 | 80.7 | 09/25/09Z | 98 | 985 | HURRICANE-2 |
| **38A** | 22.9 | 79.0 | 09/25/00Z | 86 | 987 | HURRICANE-1 |
| **39** | 23.2 | 79.6 | 09/25/03Z | 92 | 985 | HURRICANE-1 |

| | | | | | | |
|---|---|---|---|---|---|---|
| **39A** | 23.4 | 80.0 | 09/25/05Z | 92 | 985 | HURRICANE-1 |
| **39B** | 23.5 | 80.3 | 09/25/07Z | 92 | 985 | HURRICANE-1 |
| **40** | 23.8 | 80.7 | 09/25/09Z | 98 | 985 | HURRICANE-2 |
| **40A** | 24.0 | 81.1 | 09/25/11Z | 98 | 984 | HURRICANE-2 |
| **40B** | 24.2 | 81.5 | 09/25/13Z | 98 | 982 | HURRICANE-2 |
| **41** | 24.3 | 81.7 | 09/25/15Z | 104 | 981 | HURRICANE-2 |
| **41A** | 24.7 | 82.1 | 09/25/17Z | 104 | 981 | HURRICANE-2 |
| **42B** | 24.7 | 82.5 | 09/25/19Z | 104 | 979 | HURRICANE-2 |
| **42** | 24.9 | 82.9 | 09/25/21Z | 104 | 975 | HURRICANE-2 |
| **42A** | 24.7 | 83.1 | 09/26/00Z | 104 | 974 | HURRICANE-2 |
| **43** | 24.9 | 83.5 | 09/26/03Z | 104 | 974 | HURRICANE-2 |
| **44** | 25.5 | 84.5 | 09/26/09Z | 104 | 974 | HURRICANE-2 |
| **45** | 26.1 | 85.6 | 09/26/15Z | 104 | 974 | HURRICANE-2 |
| **45A** | 26.3 | 85.9 | 09/26/18Z | 104 | 974 | HURRICANE-2 |
| **46** | 26.6 | 86.2 | 09/26/21Z | 109 | 968 | HURRICANE-2 |
| **46A** | 27.0 | 86.5 | 09/27/00Z | 109 | 970 | HURRICANE-2 |
| **47** | 27.3 | 86.8 | 09/27/03Z | 109 | 968 | HURRICANE-2 |
| **47A** | 27.6 | 87.2 | 09/27/06Z | 109 | 970 | HURRICANE-2 |
| **48** | 28.1 | 87.6 | 09/27/09Z | 109 | 970 | HURRICANE-2 |
| **48A** | 28.2 | 87.8 | 09/27/12Z | 109 | 962 | HURRICANE-2 |
| **49** | 28.4 | 88.0 | 09/27/15Z | 109 | 963 | HURRICANE-2 |
| **49A** | 28.6 | 88.2 | 09/27/17Z | 109 | 963 | HURRICANE-2 |
| **49B** | 28.9 | 88.3 | 09/27/19Z | 109 | 962 | HURRICANE-2 |
| **50** | 29.0 | 88.5 | 09/27/21Z | 109 | 961 | HURRICANE-2 |
| **50A** | 29.2 | 88.4 | 09/27/23Z | 109 | 962 | HURRICANE-2 |
| **50B** | 29.3 | 88.5 | 09/28/01Z | 109 | 961 | HURRICANE-2 |
| **51** | 29.5 | 88.6 | 09/28/03Z | 104 | 961 | HURRICANE-2 |
| **51A** | 29.6 | 88.6 | 09/28/05Z | 104 | 964 | HURRICANE-2 |
| **51B** | 29.9 | 88.7 | 09/28/07Z | 104 | 964 | HURRICANE-2 |
| **52** | 30.2 | 88.8 | 09/28/09Z | 104 | 962 | HURRICANE-2 |
| **52A** | 30.4 | 88.9 | 09/28/11Z | 104 | 961 | HURRICANE-2 |
| **52B** | 30.4 | 89.0 | 09/28/13Z | 98 | 965 | HURRICANE-2 |
| **53** | 30.5 | 88.9 | 09/28/18Z | 75 | 972 | HURRICANE-1 |
| **53A** | 30.5 | 88.9 | 09/28/18Z | 75 | 972 | HURRICANE-1 |
| **54** | 30.8 | 88.9 | 09/28/21Z | 69 | 975 | TROPICAL STORM |
| **54A** | 30.7 | 89.0 | 09/29/00Z | 52 | 977 | TROPICAL STORM |
| **55** | 30.5 | 88.9 | 09/29/03Z | 46 | 985 | TROPICAL STORM |
| **55A** | 30.6 | 88.4 | 09/29/06Z | 46 | 992 | TROPICAL STORM |
| **56** | 30.8 | 88.1 | 09/29/09Z | 40 | 993 | TROPICAL STORM |
| **56A** | 31.0 | 88.0 | 09/29/12Z | 40 | 993 | TROPICAL STORM |
| **57** | 31.1 | 87.9 | 09/29/15Z | 35 | 995 | TROPICAL DEPRESSION |

| Rainfall Totals from Hurricane Georges | |
|---|---|
| ***Location*** | ***Rainfall (inches)*** |
| *Munson (NE of Milton)* | *38.46* |
| *Bay Minette* | *29.66* |
| *Andalusia* | *26.90* |
| *Gulf Breeze* | *26.87* |
| *Pensacola* | *26.83* |
| *Eglin AFB* | *24.24* |
| *Crestview* | *19.98* |
| *Brett, Florida* | *19.97* |
| *Spanish Fort* | *19.86* |
| *Niceville* | *19.53* |
| *Georgiana* | *19.15* |
| *Brewton* | *18.44* |
| Whiting Field (Milton) | *18.41* |
| Daphne | *18.24* |
| Jay | *18.19* |
| Greenville | *18.15* |
| Semmes | *17.84* |
| Hurlburt Field | *17.08* |
| Pascagoula | *16.68* |
| Fairhope | *15.82* |
| *Pensacola Airport* | *15.78* |
| *Ocean Springs* | *15.68* |
| *Whatley* | *15.15* |
| *Atmore* | *15.15* |
| *Mobile Regional Airport* | *15.02* |
| *Vancleave* | *14.81* |
| *Alabama Port* | *13.66* |
| *Wiggins* | *13.25* |
| *Mobile Downtown* | *13.13* |
| *Pensacola NAS* | *12.84* |
| *Jackson, AL* | *12.76* |
| *Leakesville* | *11.44* |
| *Camden* | *10.77* |
| *Thomasville* | *10.20* |
| *Alberta* | *9.90* |
| *Lyman* | *9.85* |
| *Keesler AFB* | *9.18* |
| *Pass Christian Harbor* | *8.79* |
| *Evergreen* | *7.67* |
| *Destin* | *6.21* |
| *Waveland* | *4.42* |
| *Bogalusa* | *2.98* |
| Source: National Weather Service Mobile/Slidell | |

| Wind Data from Hurricane Georges | | |
|---|---|---|
| *Location* | *Wind(mph)* | |
| | *Sustained* | *Peak Gust* |
| ***Mobile Regional Airport*** | ***51*** | ***83*** |
| ***Mobile Brookley Field*** | ***54*** | ***62*** |
| ***Pensacola Regional Airport*** | ***51*** | ***67*** |
| ***Crestview*** | ***32*** | ***49*** |
| ***Destin*** | ***38*** | ***56*** |
| ***Evergreen*** | ***36*** | ***45*** |
| ***Hurlburt Field*** | ***51*** | ***79*** |
| ***Eglin AFB*** | ***48*** | ***91*** |
| ***Pensacola NAS*** | ***46*** | ***70*** |
| ***Whiting Field (Milton)*** | ***44*** | ***58*** |
| ***Fairhope*** | | ***64*** |
| ***Grand Bay*** | | ***60*** |
| ***Semmes*** | | ***49*** |
| ***Brewton*** | | ***31*** |
| ***New Orleans International Airport*** | ***40*** | ***53*** |
| ***New Orleans Lakefront Airport*** | ***48*** | ***72*** |
| ***Pascagoula Trent Lott Airport*** | ***41*** | ***54*** |
| ***Gulfport Harbor*** | ***61*** | ***79*** |
| ***Gulfport Downtown – MS Power & Light*** | | ***117*** |
| **Source: National Weather Service Mobile/Slidell** | | |

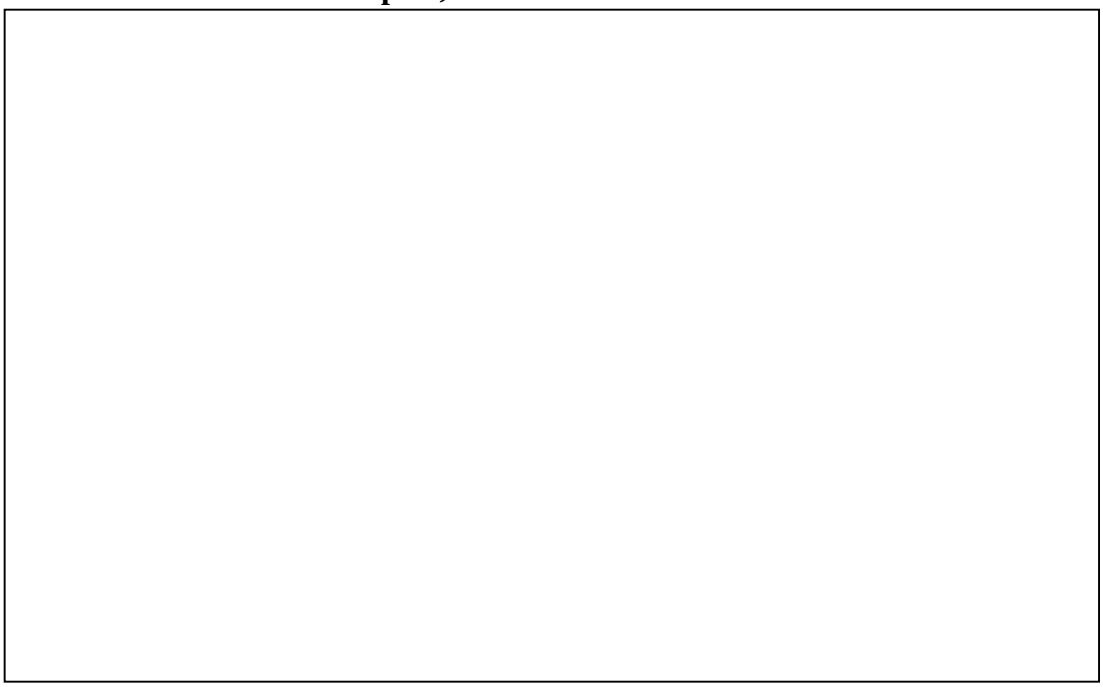
**Representative Storm Surge Elevations**
**Hurricane Georges**

| *Location* | *Surge Elevation, (Ft-NGVD)* | *Wave Height Run-up Elevation, (Ft-NGVD)* |
|---|---|---|
| ***Mississippi*** | | |
| *Pearlington* | 5.3 | |
| *Waveland* | 5.7 | |
| *Bay St. Louis* | 5.8 | |
| *Pass Christian* | 6.4 | |
| *Gulfport* | 7.6 | |
| *Biloxi – Pt Cadet* | 8.2 | |
| *Biloxi – Back Bay* | 8.8 | |
| *Pascagoula – Hwy 90* | 8.6 | |
| *Pascagoula – I-10* | 9.0 | |
| *Pascagoula – Bayou Chico* | 9.6 | |
| ***Alabama*** | | |
| *Bayou La Batre* | 8.8 | |
| *Dauphin Island, Gulf* | --- | |
| *Dauphin Island, Bay* | 5.3 | |
| *Mobile Bay - Belle Fontaine* | 8.3 | |
| *Downtown Mobile* | 8.5 | |
| *Mobile Bay - Causeway* | 8.0 | |
| *Weeks Bay* | 6.5 | |
| *Fort Morgan – Gulf* | 8.5 | |
| *Fort Morgan – Bay* | 5.8 | |
| *Gulf Shores* | 9.0 | |
| *Ono Island* | 5.4 | |
| ***Florida*** | | |
| *Pensacola* | 5.4 | |
| *Pensacola Beach* | 7.7 | |
| *Navarre – Santa Rosa Sound* | 5.0 | |
| *Choctawhatchee Bay* | 5.2 | |
| *Destin Harbor* | 5.2 | |
| *Grayton Beach* | --- | 10.00 |
| *Panama City Beach* | 5.2 | |
| *Panama City Harbor* | 3.5 | |
| *Mexico Beach* | --- | 6.8 |
| *Port St. Joe – Gulf Side* | --- | 6.7 |
| *Port St. Joe – North Side* | 2.3 | |
| *Apalachicola Bay* | 4.5 | |
| *Carrabelle* | 4.6 | |

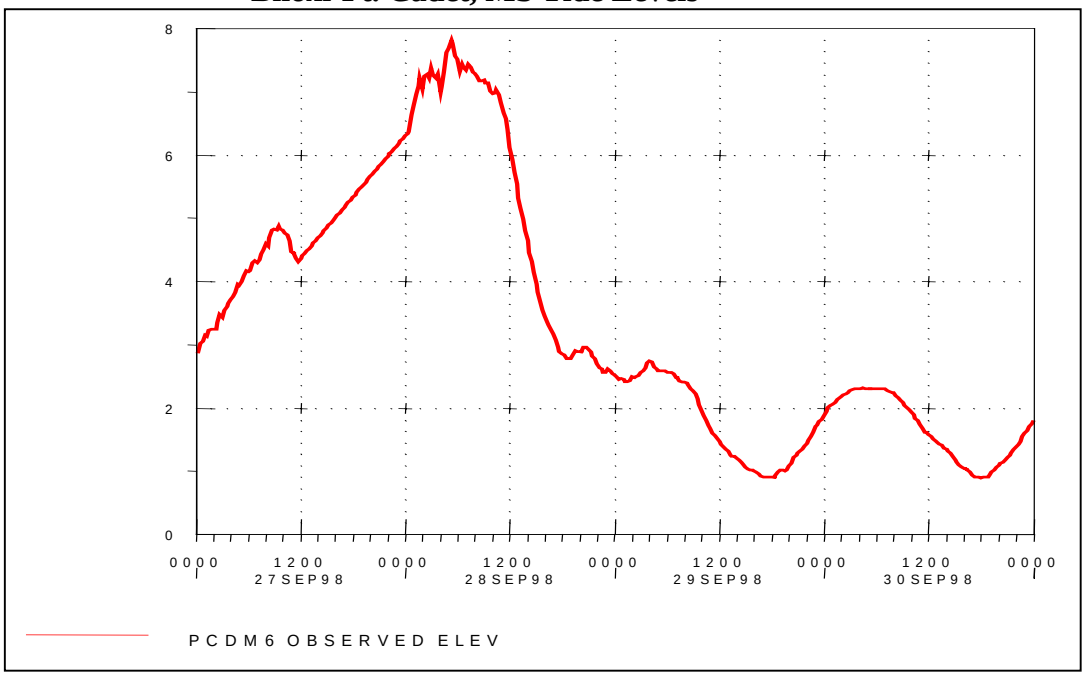
Source: U. S. Army Corps of Engineers, Mobile District

***Note: The following real-time data have undergone gross error checking only. Please use with discretion.***

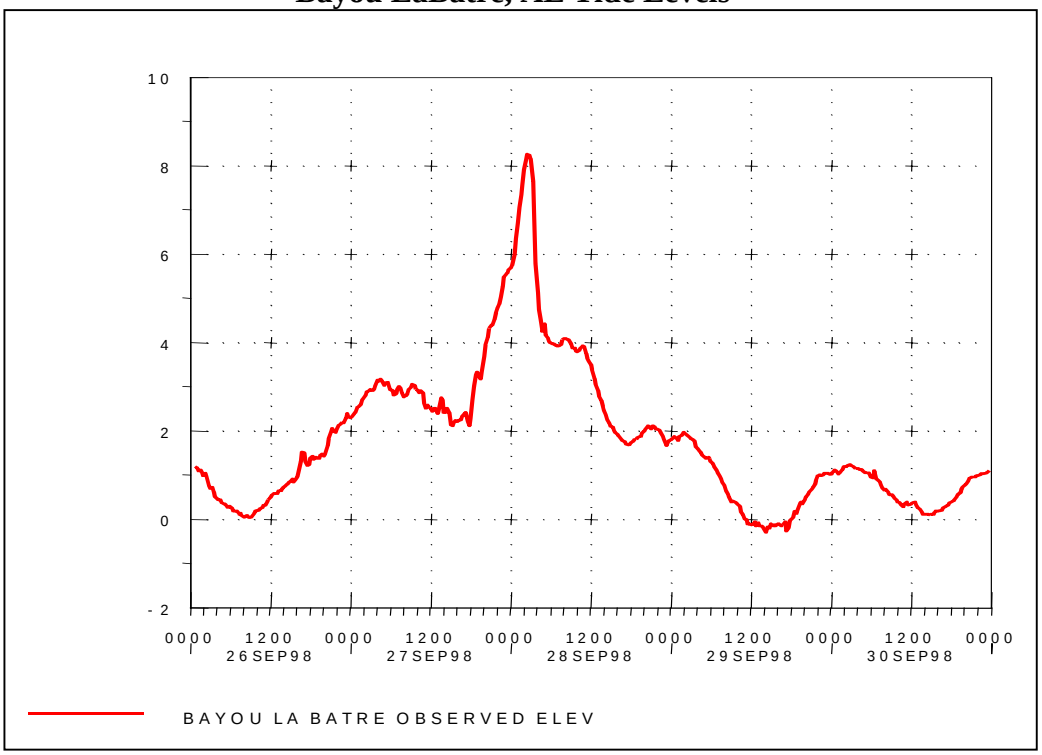
**Gulfport, MS Tide Levels**



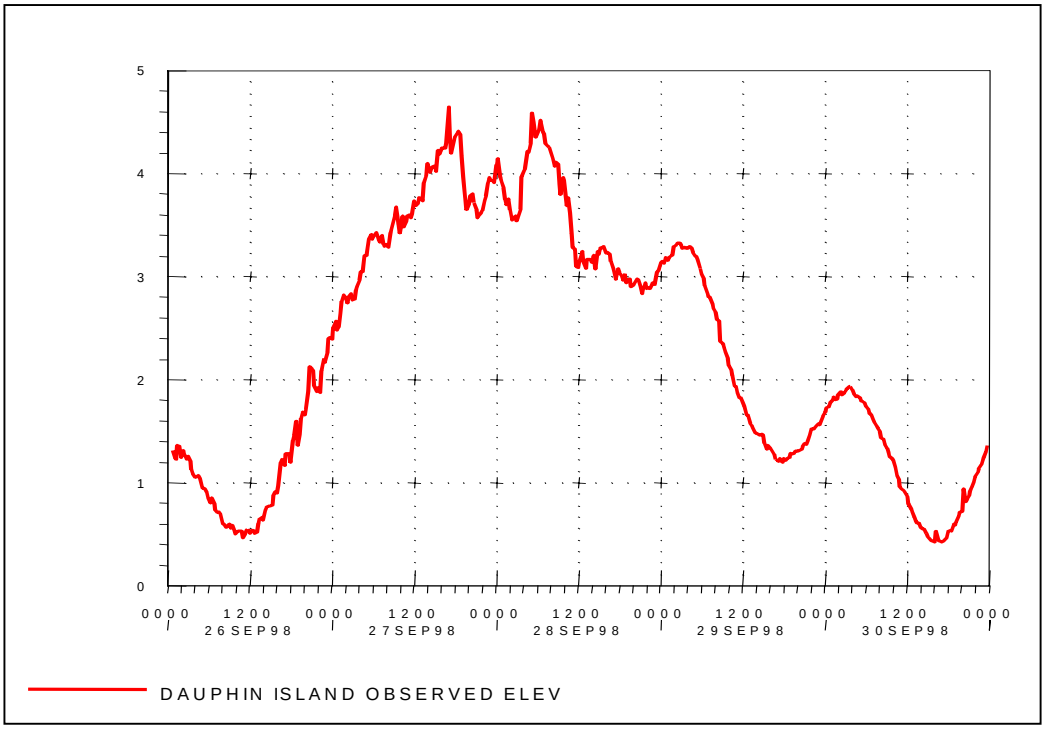
**Biloxi-Pt. Cadet, MS Tide Levels**



## Bayou LaBatre, AL Tide Levels

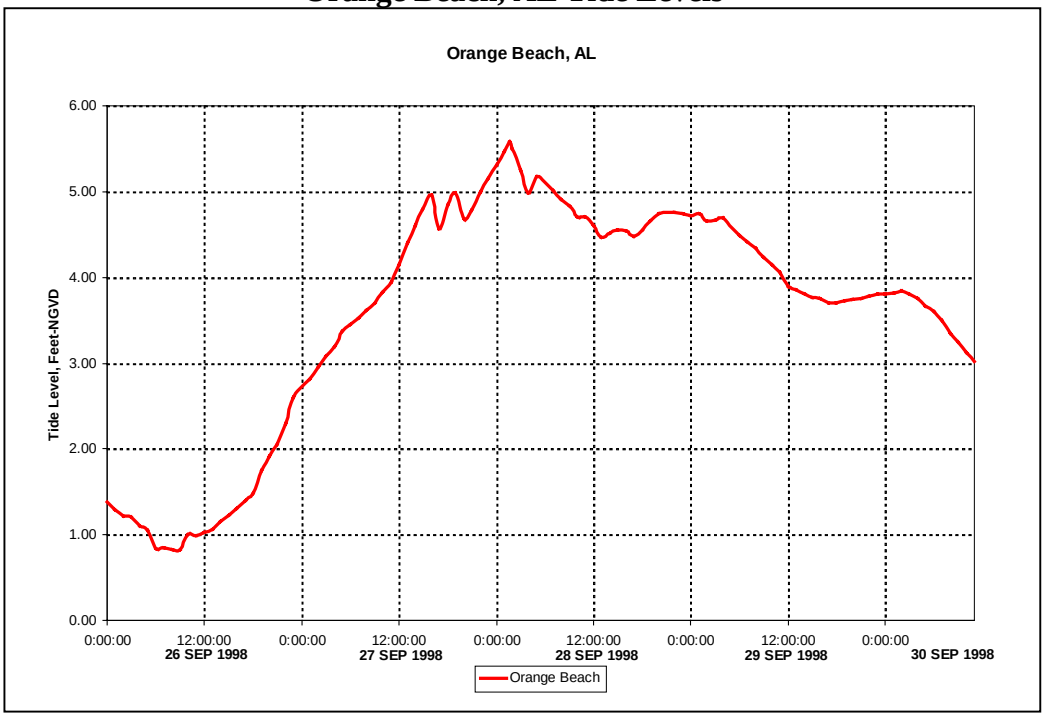



## Dauphin Island, AL Tide Levels



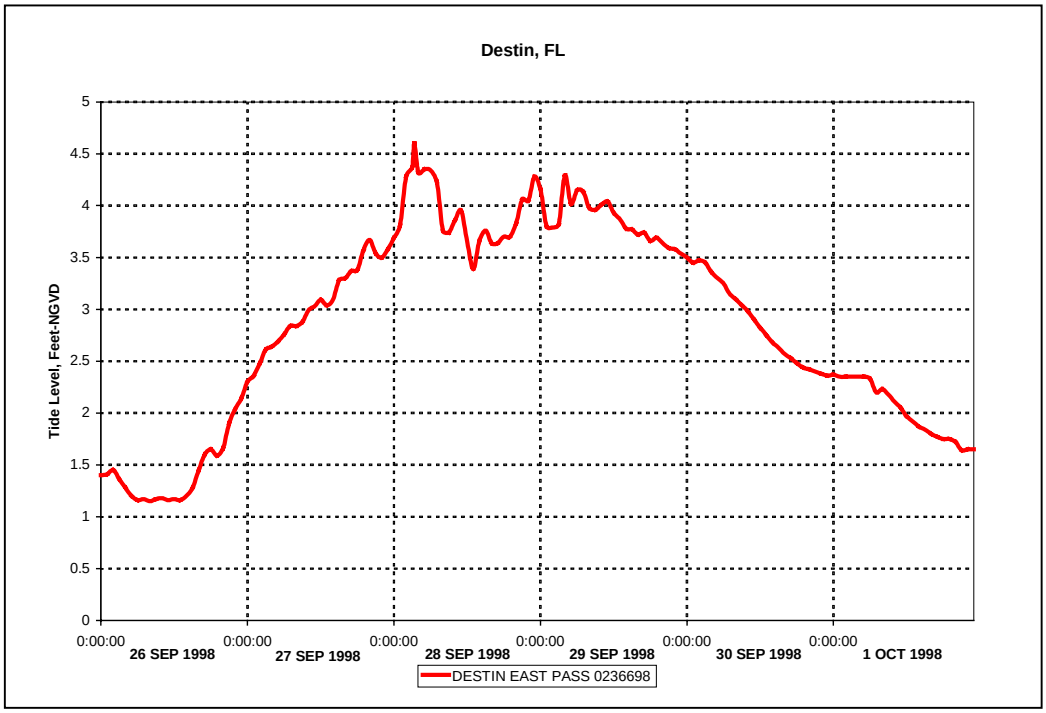

U. S. Army Corps of Engineers, Mobile District
Hydrology & Hydraulics Branch

## Orange Beach, AL Tide Levels

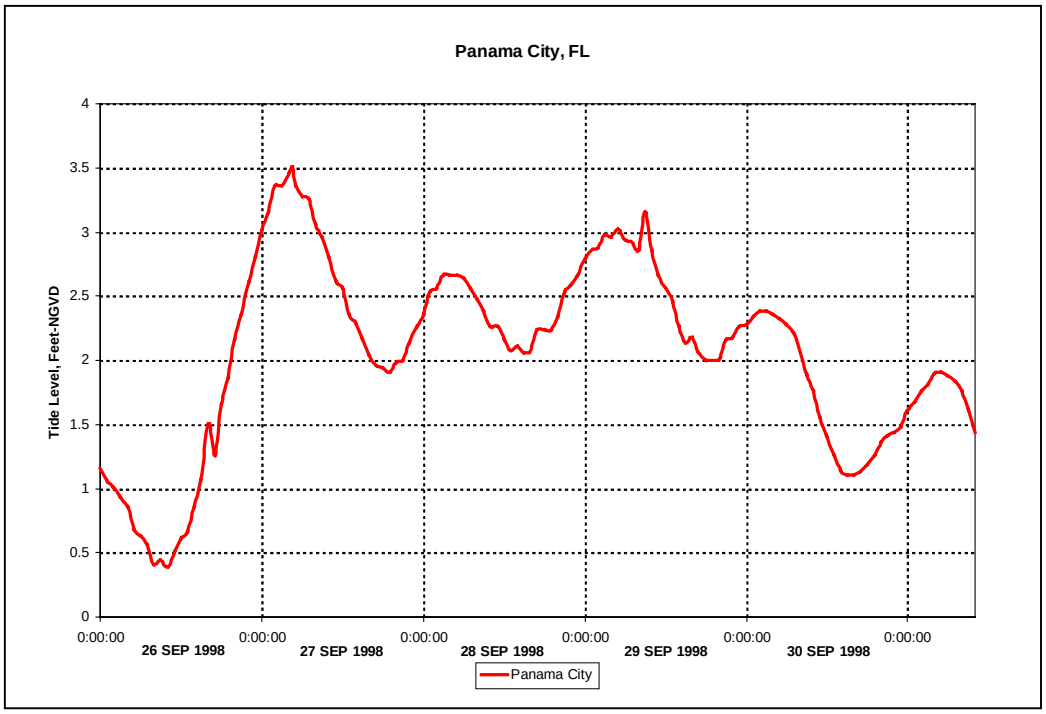



## Pensacola Gulf Beach, FL Tide Levels

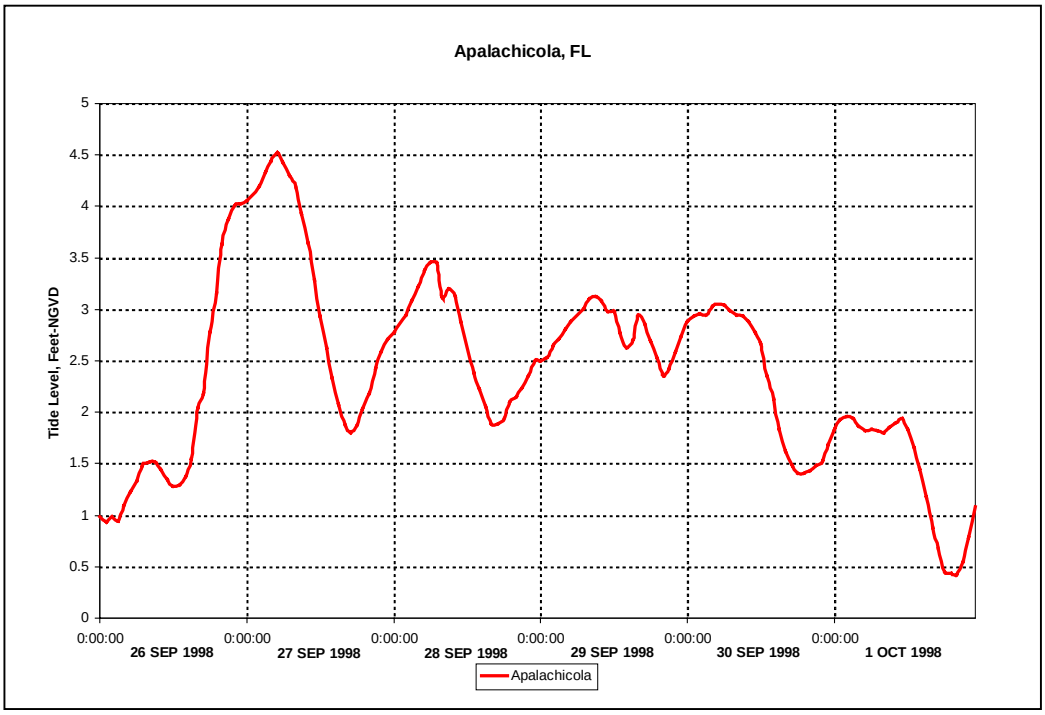
## Destin, FL Tide Levels




## Panama City, FL Tide Levels



## Apalachicola, FL Tide Levels




## Carabelle, FL Tide Levels