



## **Some Definitions**

- **Mitigation:** Capital investment in buildings or infrastructure to decrease vulnerability **Emergency Response:** Actions taken before or during a specific event to reduce human and economic impact
- Forecast: Prognostication of future me
- conditions Advisory: Periodic summary of current and exp weather. Watch: Expect hurricane conditions within 48h
- Warning: Expect hurricane conditions within 36h
  (Change from 36 and 24h)

## **Forecast Attributes**

- Track –where is it going?
- Intensity –how strong?
- · Storm surge -wind-driven rise of the see
- Distributions of wind and rainfall
- Probabilistic?
- Must be on-time Must be on-time Tradeoff between lead-time and warning area
  - · How best to communicate with users?







02/10/00 10000 02Hm CHAN 05/10/00 17122 00Hm-6 10

Lab ......

- similar properties









## 2



















Cat	Winds	Effects
One	74-95 mph	No real damage to building structures.
Two	96-110 mph	Some roofing material, door, and window damage to buildings. Considerable damage to vegetation, mobile homes, and piers.
Three	111-130 mph	Some structural damage to small residences and utility buildings with a minor amount of curtainwall failures. Mobile homes are destroyed.
Four	131-155 mph	More extensive curtainwall failures with some complete roof structure failure on small residences. Major erosion of beach. Major damage to lower floors of structures near the shore.
Five	> 155 mph	Complete roof failure on many residences and industrial buildings. Some complete building failures with small utility buildings blown over or away.









