A Generalized Rapid Intensification Prediction Framework

Jonathan L. Vigh (NCAR) and coauthors

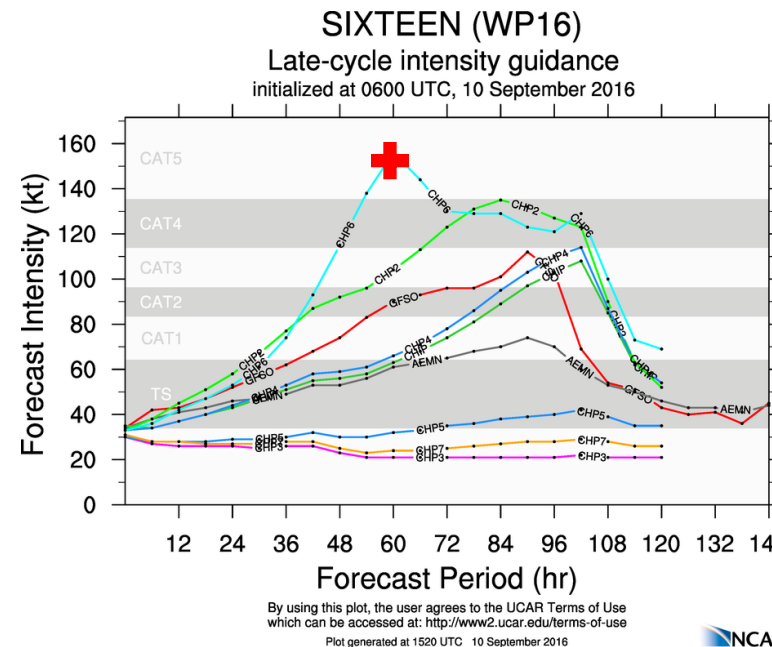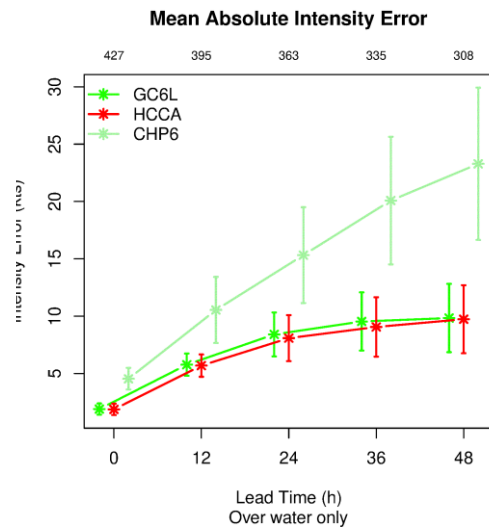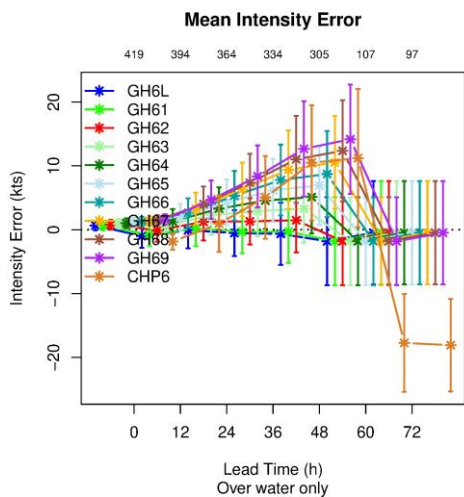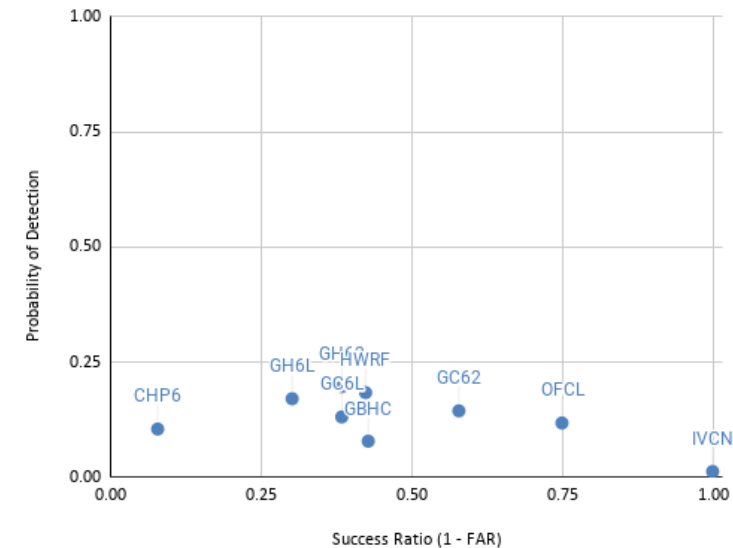- Objective: Formulate a post-processing framework
  - Improves deterministic predictions of RI without degrading performance of base model in non-RI periods
  - Improve the Probability of Detection without significantly increasing the False Alarm Rate
  - Account for the probabilistic nature of RI
- GRIP is a new type of blended consensus:
  - Deterministic model (or consensus)
  - Upper bound model
  - Weight from by probabilistic RI model

Questions / comments:

jvigh@ucar.edu

	PODY	FAR	FBIAS	Goodness_distance
CHP6	0.10526	0.92079	1.32895	1.283905718
GBHC	0.078947	0.57143	0.18421	1.083914600
GC62	0.14474	0.42105	0.25	0.953285251
GC6L	0.13158	0.61538	0.34211	1.064352311
GH62	0.19737	0.61538	0.513166	1.011388877
GH6L	0.17105	0.69767	0.56579	1.083467365
HWRF	0.18421	0.57576	0.43421	0.998505333
IVCN	0.013158	0	0.013158	0.986842
OFCL	0.11842	0.25	0.15789	0.916342346

Mean Intensity Error — Over water only

Mean Absolute Intensity Error — Over water only

SIXTEEN (WP16)
Late-cycle intensity guidance
initialized at 0600 UTC, 10 September 2016

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Plot generated at 1520 UTC 10 September 2016

Poor person's Performance Diagram