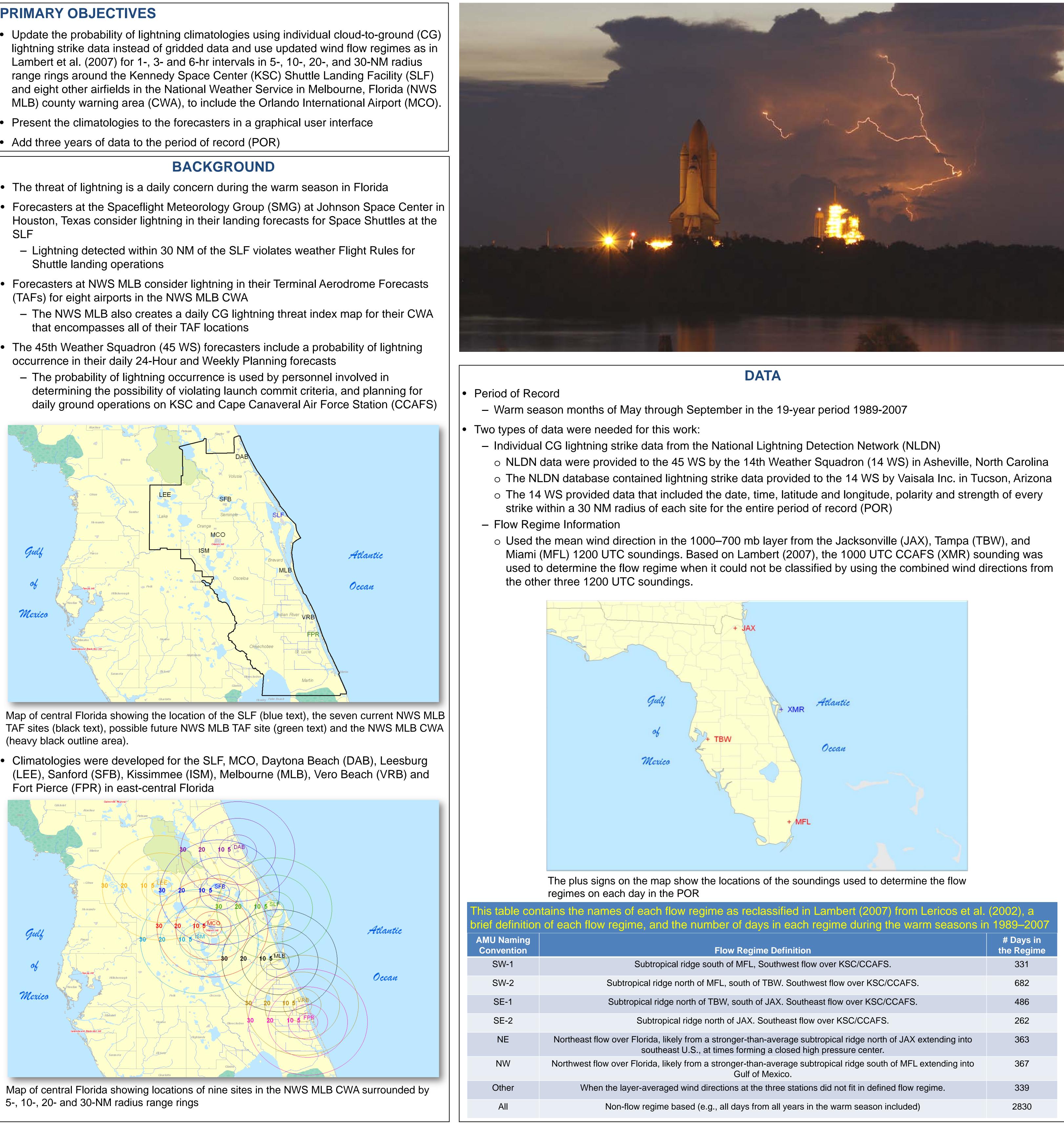


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PRIMARY OBJECTIVES

- SLF
 - Shuttle landing operations
- (TAFs) for eight airports in the NWS MLB CWA
- that encompasses all of their TAF locations
- occurrence in their daily 24-Hour and Weekly Planning forecasts
- Gulf Atlantic Ocean Mexico

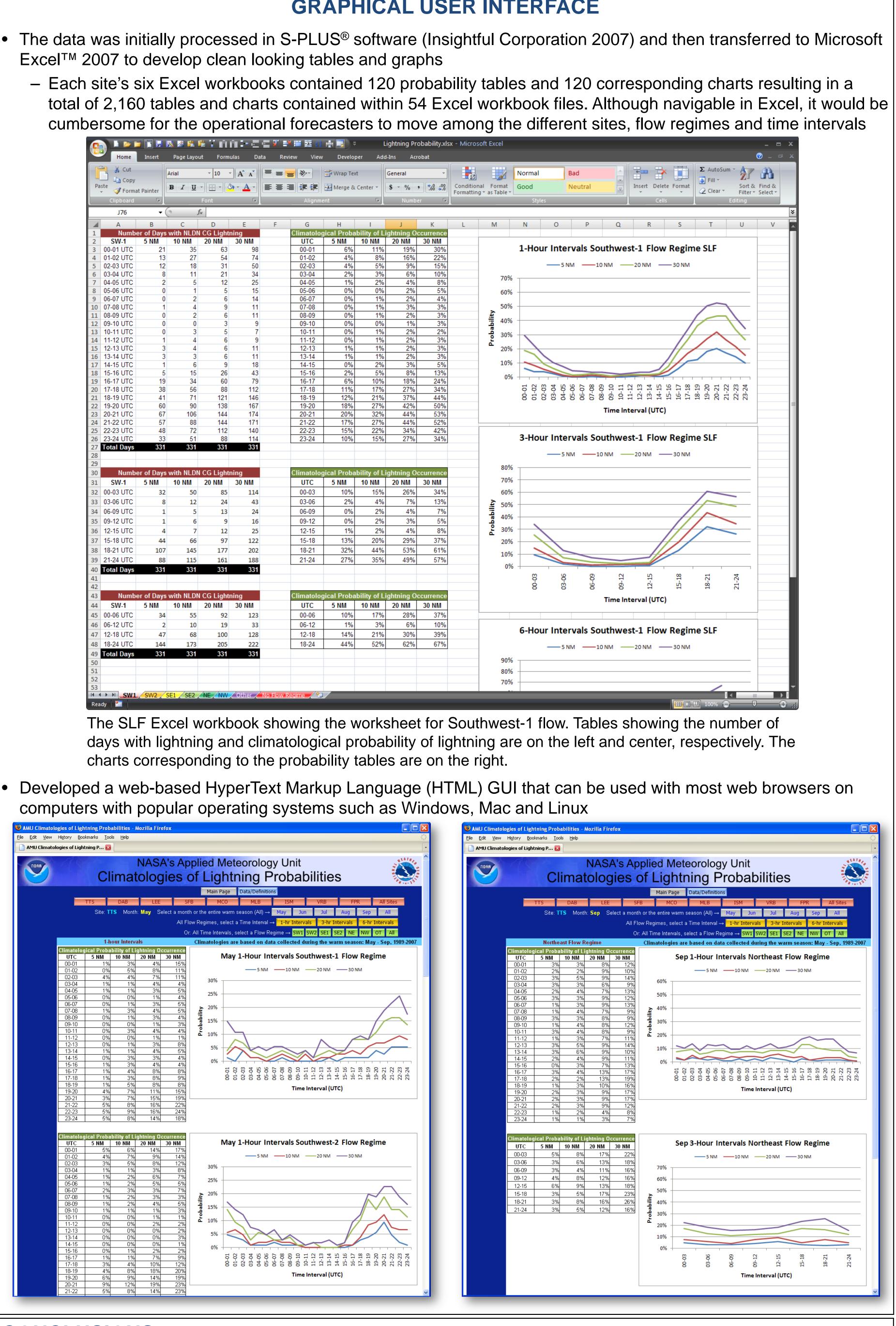


Central Florida Flow Regime Based Climatologies of Lightning Probabilities

Matthew Volkmer and David W. Sharp NOAA/NWS / Melbourne, Florida

Brian Hoeth, Richard A. Lafosse and Kurt M. Van Speybroeck NOAA/NWS Spaceflight Meteorology Group / Houston, Texas

pert (2007) from Lericos et al. (2002), a e during the warm seasons in 1989–2007	
	# Days in the Regime
KSC/CCAFS.	331
w over KSC/CCAFS.	682
v over KSC/CCAFS.	486
(SC/CCAFS.	262
I ridge north of JAX extending into sure center.	363
I ridge south of MFL extending into	367
ot fit in defined flow regime.	339
arm season included)	2830



CONCLUSIONS

- Provided the climatologies to the forecasters in an HTML GUI
- lightning hazard graphics for the public

REFERENCES

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GRAPHICAL USER INTERFACE

• Flow regime based climatologies of lightning strike probabilities have been improved by using individual CG lightning strike data, employing revised wind flow regimes, and extending the POR by three years

• SMG uses the GUI as a briefing tool to mission managers (NASA Flight Directors)

• NWS MLB uses the climatologies to deliver more accurate convective forecasts for area TAFs, and to create daily

Final Report: http://science.ksc.nasa.gov/amu