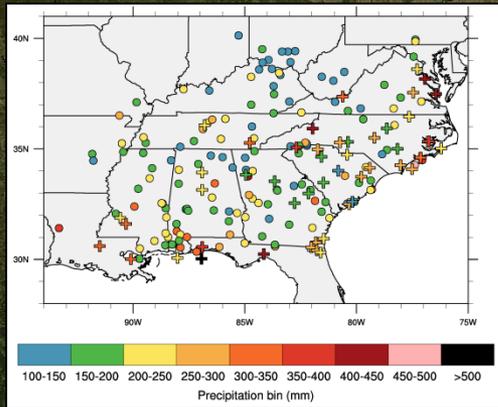
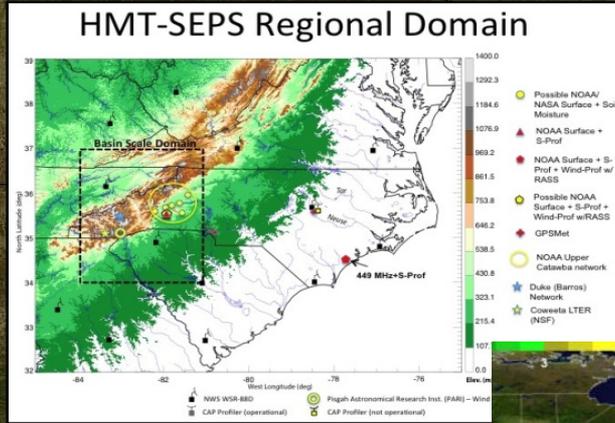


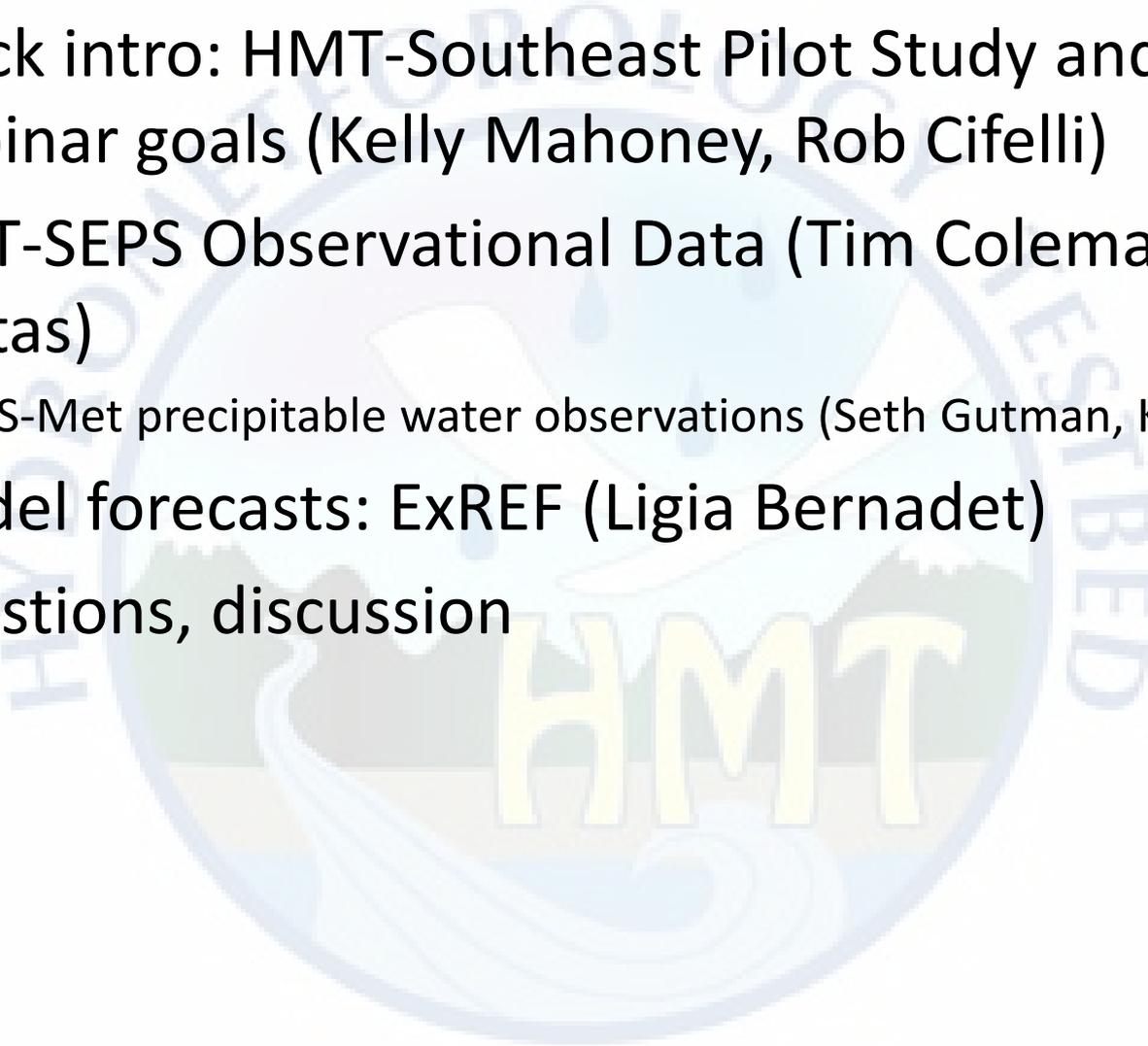
HMT-Southeast Pilot Study Data and Model Forecast Training Webinar



31 July 2013

Agenda

- I. Quick intro: HMT-Southeast Pilot Study and webinar goals (Kelly Mahoney, Rob Cifelli)
- II. HMT-SEPS Observational Data (Tim Coleman, Dan Gottas)
 - GPS-Met precipitable water observations (Seth Gutman, Kirk Holub)
- III. Model forecasts: ExREF (Ligia Bernadet)
- IV. Questions, discussion

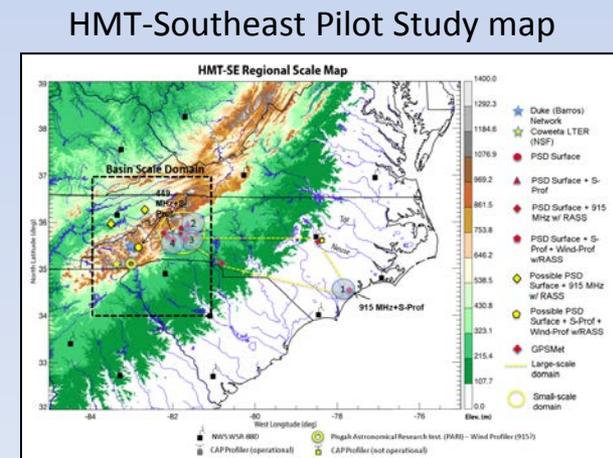
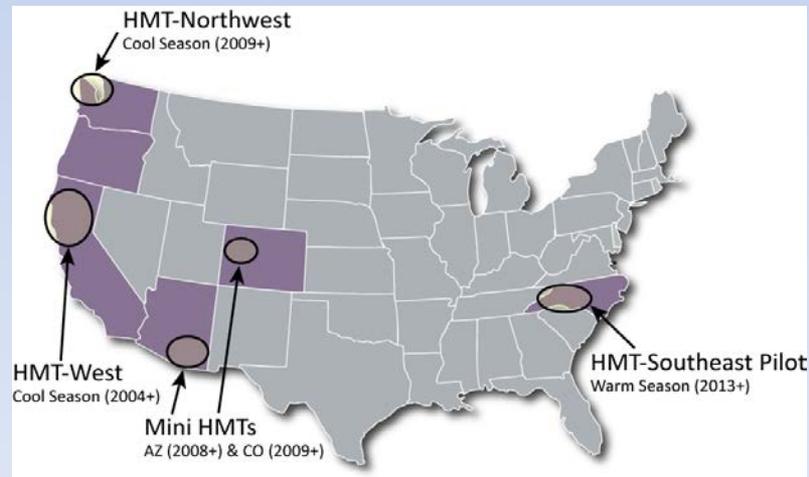


NOAA's Hydrometeorology Testbed (HMT)

- HMT conducts research on precipitation and weather conditions that can lead to flooding
- Aims to foster transition of scientific advances and new tools into forecasting operations
- Accelerates development, prototyping of advanced hydrometeorological observations, models, and physical process understanding
- HMT-Southeast: 2 parts
 1. Pilot Study in western North Carolina (Spring 2013 – Fall 2014)
 2. Operationally-oriented research on extreme precipitation and forecast challenge identification

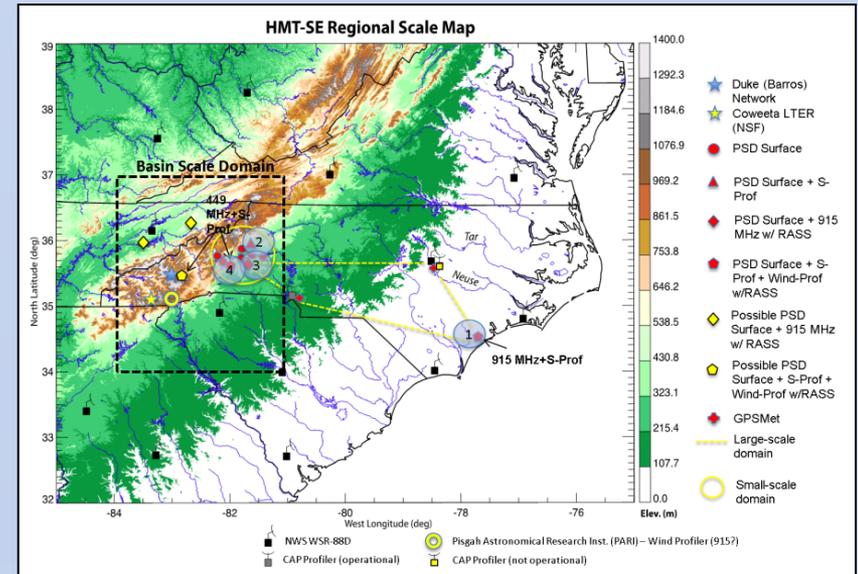


Mobile atmospheric river observatory (as used in HMT-West and HMT-Northwest)



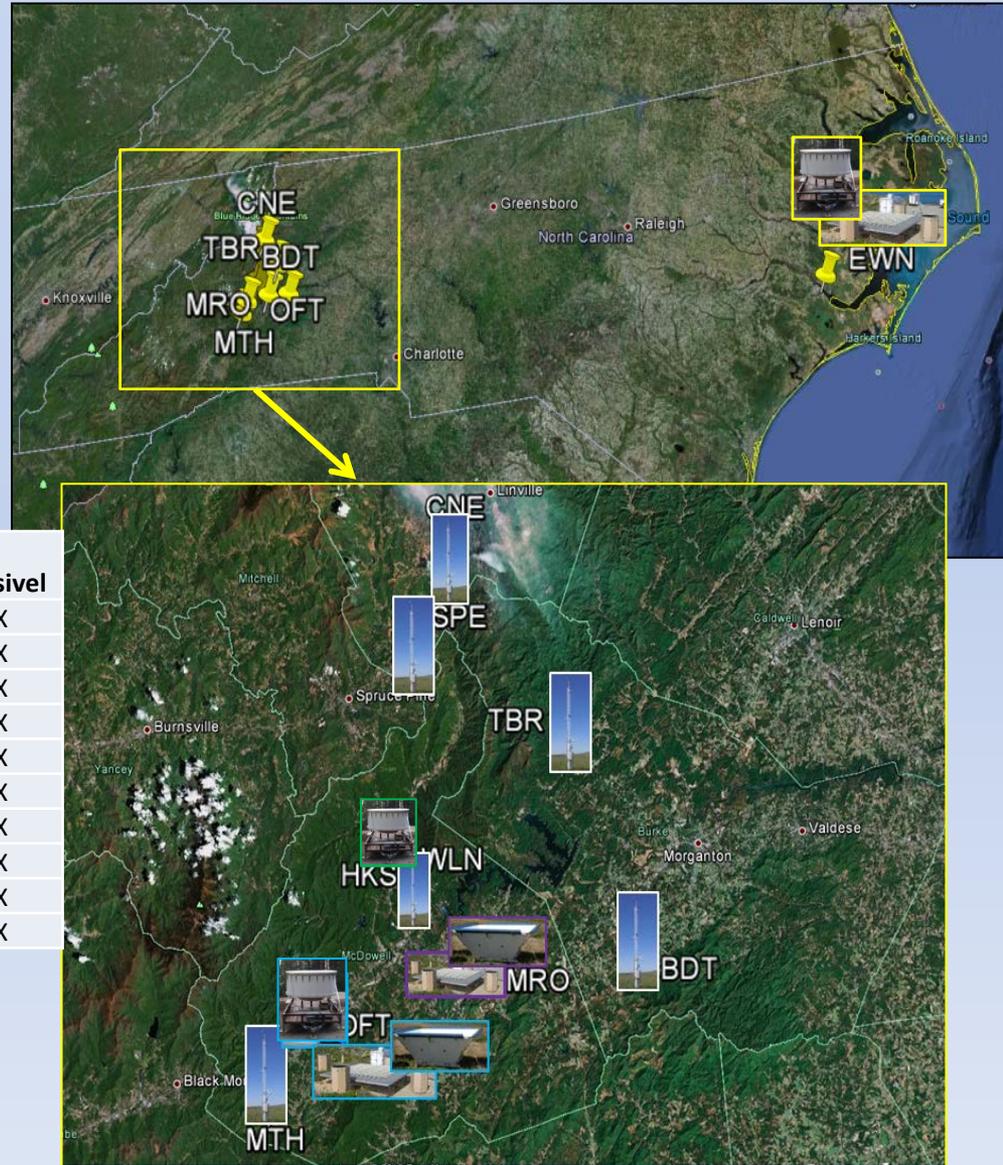
HMT-Southeast Pilot Study (“HMT-SEPS”)

- Spring 2013 – Fall 2014 in western North Carolina (largest instrument focus in Upper Catawba watershed)
- QPE evaluations largely focused in western NC (but some instrumentation in central and eastern NC), QPF improvement goals region-wide.
- NOAA providing instrumentation and leveraging additional assets from NASA ground validation campaign, IPHEX
- Deployment began in June, will be completed in coming weeks.
- “Pilot study”: Long-term plan, vision unclear at this time; *if* value is demonstrated, could consider expanding, prolonging (provided external support could be garnered)



HMT-SEPS instrument deployment

- NOAA's HMT-SEPS deployment: 4 profiler sites and 6 surface meteorology sites
- Additional NASA precipitation gauge and disdrometer to be added to each of the surface sites in August/September
- Restoration of/upgrades to existing NC Div. of Air Quality Clayton, NC and Charlotte, NC wind profilers. Possible inclusion of new profiler in RTP at US EPA's campus.



Site Name	Site ID	Elev (m)	449	915	RASS	S-band	Met	Soil Moisture	Parsivel
Brindletown	BDT	355					X	X	X
Crossnore	CNE	1008					X	X	X
Hankins	HKS	379				X	X		X
Marion	MRO	384		X	X		X		X
Mount Hebron	MTH	519					X	X	X
New Bern	EWN	3	X			X	X		X
Old Fort	OFT	421	X		X	X	X		X
Spruce Pine	SPE	833					X	X	X
Table Rock	TBR	356					X	X	X
Woodlawn	WLN	523					X	X	X

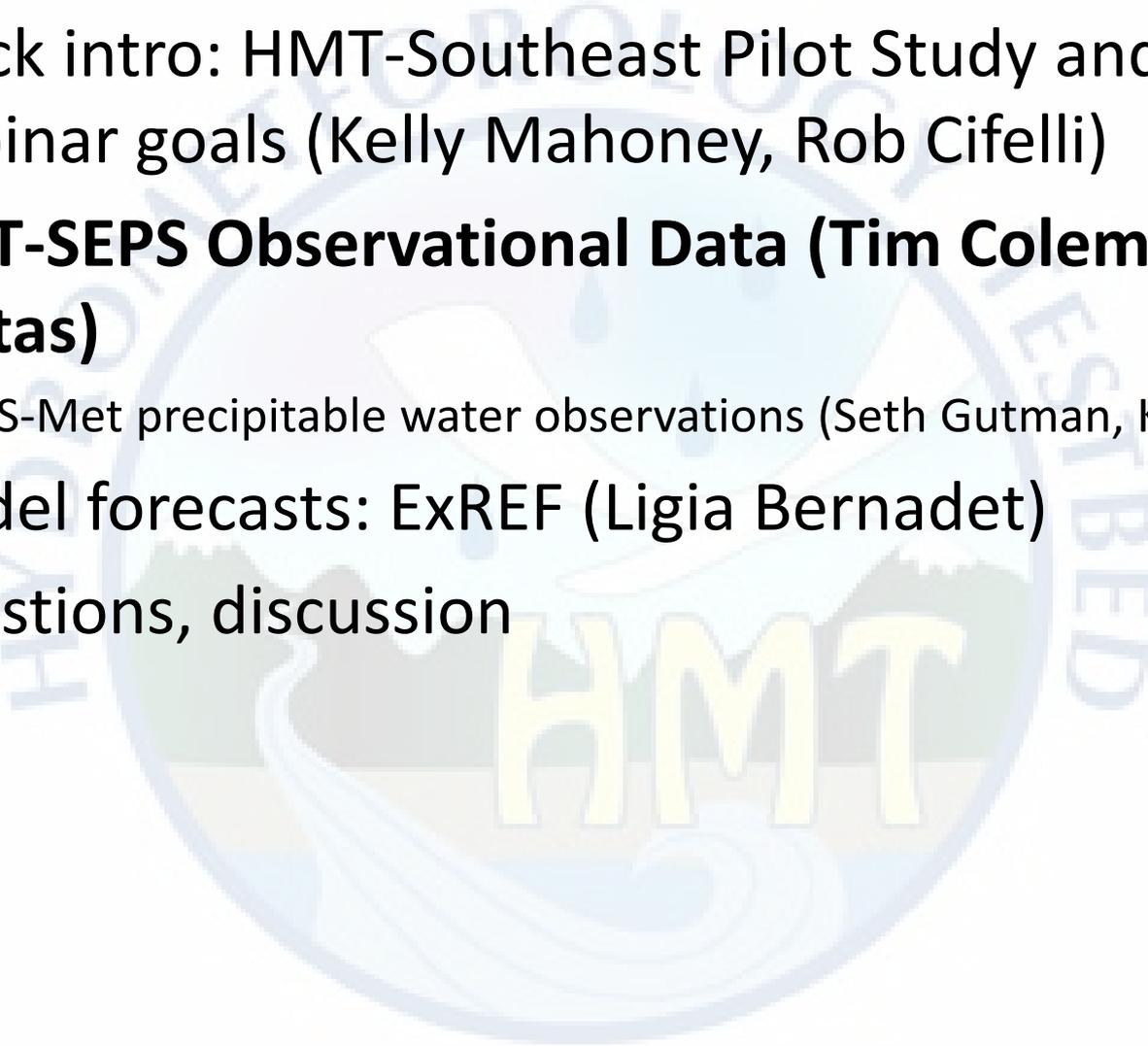
Goals of Webinar

1. Inform user community of available HMT-SEPS observational and model forecast data
2. Demonstrate how information can be most easily accessed and used to address specific user needs
3. Answer community questions, address concerns, suggestions for improvement

- *The data collected is only useful if potential users know that it's there and how to use it*
- *We can only make the products better with feedback from users*
- *The funding for HMT-SEPS is limited, and we can make the most progress by working with users, collaborating and leveraging common interests and goals*

Agenda

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Concluding notes & time for questions, discussion

- Feedback is welcome and encouraged. Please tell us how we can make the data, displays, and products more useful to you.
- If you use the data and find it useful, please tell us that too
 - Important for quantifying/tracking utility, justifying potential extension/expansion of project
- Our Facebook page is meant to be interactive - please share thoughts, questions, information with us (and the community) there!



- Webinar is being recorded; we will send access information ASAP.
- Questions, comments, discussion?

Other news from HMT and HMT collaborators

- HMT WPC, HMT ESRL partners with NSSL/OU for Flash Flood and Intense Rainfall (FFaIR) experiment (July 2013)
- QPE validation planning underway: in collaboration OHD, NESDIS, NSSL, NCDC, CPC, others
- NC-Division of Air Quality and HMT repair and upgrade of Clayton, NC profiler; Charlotte, NC upgrade planned in coming months.
- NASA IPHEX planning underway
- NCSU graduate student to begin QPF error climatology work Fall 2013
- Additional potential projects and collaborations underway with specific WFOs, NASA SPoRT, other universities, NCAR

Contact information

- Facebook: <https://www.facebook.com/NOAAHMTSoutheast> (frequent updates, news interactive sharing between community members)
- Webpage: http://hmt.noaa.gov/field_programs/hmt-se/ (background information, science plan, documentation)
- Project manager: Rob Cifelli (rob.cifelli@noaa.gov)
- Lead Scientist: Kelly Mahoney (kelly.mahoney@noaa.gov)
- Data, observations, webpage:
 - Tim Coleman (timothy.coleman@noaa.gov)
 - Dan Gottas (daniel.gottas@noaa.gov)
- ExREF model forecasts: Ligia Bernardet (ligia.bernardet@noaa.gov)
 - GPS-met precipitable water obs: Seth Gutman (seth.i.gutman@noaa.gov)