

## PECAN Planning Meeting May 12-14, 2014 Action Items

Dana Mueller

Bart Geerts

circulate minutes and action items of this meeting	Mueller
contact / visit Hays soon (local newspaper, Chamber of commerce, Mayor, College ...)	Moore, Wurman, others
<b>Forecasting</b>	
Bore diagnostic scripts: <ul style="list-style-type: none"> <li>• Questions about software, source model data, and access to PECAN forecasters</li> <li>• distinguish between environment (wave ducting) and triggering potential (requires cold pool)</li> <li>• prototype testing in Dry Run early June?</li> </ul>	Koch, Haghi, Gallus
Products you like to see in Dry Run forecasts (info to Gallus, Scott Loehrer)	All
PECAN-specific forecast graphics development for Night 1, 2, 3 (probabilities of MCS, bore, CI ...)	Gallus, Coniglio
Finetuning the daily schedule: main oral forecast for plenary meeting at 4 pm? add'l forecasts posted daily on Field Catalog, e.g. an early one (1 pm)?	Ops Plan developer
Quicklook development and posting on Field Catalog for all experimental data to aid nowcasting	all instrument P/Is
assimilation of PECAN soundings in Xuguang's 12/00Z INIT convection-resolving model? (possible for all QC'ed PECAN soundings that can upload to GTS)	All sounding P/Is to contact Xuguang Wang
<b>Aircraft</b>	
NASA \$\$ limited: preference for the ground-based assets (ALVICE, GLOW) or DC-8?	Parsons to contact NASA
report on King Air home base following site survey (Hays preferred)	French
list of locations of <b>all</b> ground lidars operating within PECAN domain, before start of campaign. Indicate operation mode (scanning/profiling) and min eye-safe range. Request from French	Turner
list of locations and heights of towers and tethered balloons within domain at all FP sites. (Requested by French)	Qing Wang, Clark /Sikora
access aboard UWKA to real-time NEXRAD composite with overlays of lightning data, UWKA and P-3 tracks	Oolman
real-time UWKA, P-3, DC-8 track data available to all	Stossmeister, Moore
transmission of real-time MP and mobile radar mobile soundings and mesonet location data of for use on Catalog Maps and aboard P-3 and UWKA?	MP and MR P/Is
Schematic flight plans submitted to FAA need to have vertical coordinates on diagrams in feet, distance in nautical miles. On Ziegler's plots, the ground instrumentation and	Ziegler

crews need to be removed. Cross sections with flight level info are key (request from Moore)	
FAA liaison	Moore
list of foreign nationals to have access to McConnell AFB for P-3 flights. (Requested by Jorgensen)	P-3 P/Is
decide what instruments (if any) to mount on NOAA-P3 right wing pod	McFarquhar
DC-8 home base: McConnell instead of SLN,	Ismael
<b>IOPs</b>	
IOP types not mutually exclusive. Bore mission may evolve into MCS mission. MCS mission may encounter bores. Lots of linkages between themes in the types of IOPs	Parsons group
early IOP start? AET: influence of boundaries in the late-afternoon CBL on nocturnal CI King Air flight before sunset to scout 700 mb moisture convergence? LLJ deployment of some MPs	Knupp Weckwerth group
late IOPs? investigate significance of secondary peak time in nocturnal elevated CI	Dylan Reif / Bluestein
meso- $\alpha$ environment monitoring upstream conditions? 18 / 21 Z soundings from NWS sites west of PECAN domain? (funding? staffing?)	Koch Rauber group
<u>Procedures</u> daily meeting and forecast guidance IOP decision making (selection process, start/end calling ...) target location and MA relocation process. A:armada MA crew duty limitations mobile crew accommodation process while away from Hays	Ops Plan developer
<b>Fixed PISAs</b>	
siting: 1. Is FP2 (Meade, KS) the best place for LLJ studies? (Turner) 2. Should we do flux measurements at FP3 (La Crosse, KS)? Will this be the best/most capable site? (Turner) 3. Should we move FP4 (currently set for Minden, NE) to the southern part of the radar coverage lobe? (Turner) 4. Do we need a surface mesonet station at FP6 (Hesston, KS)? YES 5. Is FP3 near S-POL a supersite? Does the LLJ King Air flight track go over/near FP3? Basically, Turner to circulate latest FP map (incl. S-POL) to PECAN P/Is before more detailed site selection steps.	FP group coordinated by Turner
designate one lead per FP for site responsibilities	Turner
land access, power, communication, instrument integration, quick look generation, at each FP	FP leads
FP	
<b>radiosondes</b>	
coordination of VHF frequency allocation	Tim Lim
launch frequencies for the three missions	mission

	scientist
Sounding launch plan for FP and MP	Turner
<b>S-POL</b>	
Move slightly closer to Dodge City approved. Do site survey this summer. scanning strategies, ops, personnel ...	Weckwerth, Hubbert
Select S-POL data available on FC	
Real-time Composite/mosaic nexrad / SPOL 3D – may affect site choice	EOL
<b>Mobile radars</b>	
Plan B if complete hexagon is impossible (not all radars available ... RAXPOL?)	Wurman
How useful are the clear-air mobile radar data at night (DOW6, DOW7, SR)? Chance for some obs in June/July 2014, or analysis of existing data?	Kosiba, Biggerstaff?
Clear-air radar deployment and scanning strategies (request from Wurman)	bore and CI P/Is
Install pressure sensors on CSWR tornado pods	Kosiba
Are MM vehicles stationary during bore missions?	Bore P/Is
<b>Mobile PISAs</b>	
time needed to set up and start data collection (request from Turner)	MP P/Is
preferred configuration of 4 MPs for CI, bore, MCS mission, in context of MR hexagon and mobile sounding positions (request from Turner)	group
<b>Operations Center</b>	Moore
siting, space requirement, power, internet bandwidth	Salazar
<b>Communication</b>	
set up x-chat so that auto-login after brief loss of cell reception (Ziegler request)	Stossmeister
best cell service in PECAN domain? Need additional communications carrier besides Verizon?	
<b>Staffing during campaign</b>	Ops Plan developer
<i>Mission Coordination Team</i> <ul style="list-style-type: none"> <li>&gt; a rotating Ops Director</li> <li>&gt; flight scientists from each of the aircraft</li> <li>&gt; scientists representing MCSs, CI, bore, and LLJ missions</li> <li>&gt; mobile radar coordinator</li> <li>&gt; FP and S-POL coordinator, incl. soundings from FP</li> <li>&gt; MP and mobile sounding/mesonet coordinator</li> <li>&gt; Forecast Team Leader</li> </ul>	group
REU proposal for undergrad student participation + SOARS participation	Rauber, Parsons
staffing of DOWs	Kosiba
staffing of SRs and other mobile radars	Respective P/Is
staffing of MPs	respective MP P/Is

staffing of ISSs	Brown
staffing of mobile soundings and mesonets	Parker?
staffing of forecast and nowcast team	Gallus
<b>Field Catalog, data management</b>	
Catalog Map "light" showing nexrad composite, locations of all mobile units and all aircraft, like SASSI (Rasmussen)	Stossmeister
Any composites to be developed during field phase? Request to EOL	all
PECAN logo	competition
<b>Housing</b>	
Hays University apartment bookings for entire field phase, by 21 May. Wurman to circulate email about this	P/Is to contact CSWR
lodging pool away from Hays	ibidem
<b>Operations Plan development</b>	(Diana)
Ops center	Moore
daily schedule	Weckwerth
IOP decision procedures	Weckwerth
UWKA flight plans & ops	Geerts
P-3 flight plans & ops	Jorgensen
MR, MM + MS, MP ops procedures	Wurman Parker Turner
staffing roster (names to positions by date, incl. students)	responsibility of facility manager
contacts and addresses	Salazar
Next meeting	March 2015

Email aliases for  
 PECAN PI (pecan\_pi@eol.ucar.edu)  
 PECAN PARTICIPANTS  
 TBD  
 Bore  
 CI  
 Mobile radar  
 PISA