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| NWS & SPoRT Coordination Call September 16, 2010 |
|  |  |  | Goto Meeting and phone |
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| Meeting called by | NWS Southern Region |
| Type of meeting | Invited Presenter |
| Facilitator | Bernard Meisner |
| Note taker | Kevin Fuell |
| Timekeeper |  |
| Attendees | WFOs: MLB, HOU, OXH, BMX, MRX, ABQ, HUN, MOBSMGSPoRT: Kevin Fuell, Geoffrey Stano, Jon Case |
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| Agenda topics |
|  | BMX summer CI project to improve Pop forecast | Kevin laws (BMX) |
| Discussion |  |
| Intro by Jon Case as to how SPoRT is collaborating Kevin Laws presentation of the project and results (see PPT):* hourly analysis of boundaries became taxing to forecaster – too much to do in operations
* Use of LIS to try to reduce the number of unknown boundaries from summer 1
* products made available via images on website
* Soil plot shows Blackbelt region of clay soils which tended to act like an urban corridor toward the end of summer b/c the soil does not recharge quickly due to the small pore. Hence the area has greater sensible heat flux
* BMX using a 7 person team: boundary ID was done prior to 10AM with CI defined and posted to BMX webpage
* Hard to get historical PoP forecast graphics: need a solution.
* In example the convection seems random but can be explained with detailed analysis/examination
* Method: ID boundary, scored each “product” used to forecast, verify, note missed events, examine forecast
* Difficulty was in scoring (rating) the use of each product
* Charted things like PW, CAPE, and LFC for each day.
* There was a paradigm shift in the thought of what summer wx really is due to the fact that there were only 47 days out of 90 where CI polygons were issued
* Need to examine the resulting POD, FAR, and CSI to understand what this means in terms of improvement to the forecasts.
* 15 polygons based (solely) on LIS and 12 verified. Unknown boundaries cut down by about half.
* Satellite was the most used product, even over radar
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| Conclusions |  |
| In summer 3 want to go more digital with PoP grids in GFE. Try to show improvement in PoP from midnight shift to morning update.Could PoP update influence the weather grid or can the CI polygon be incorporated here in some way? |
| In summer 4 – Can the methodology be transitioned to neighboring and regional sites?Jon Case has done a 3-month review of using LIS in WRF. Less than overwhelming change in precip scores with use of LIS during this case period. Additional steps are needed. For example, a more real-time Greenness Vegetation Index per MODIS composites can help define the surface vegetation state to be more realistic.Key is to find unique factors that motivates each staff member in order to make the project work. |
| Action items | Person responsible | Deadline |
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| Observers |  |
| Resource persons |  |
| Special notes |  |