Midwest Mesonets for Climate Monitoring and Assessment Workshop
The Hyatt Place, Champaign, IL
September 28-29, 2015

Objective: To collaborate on ways to have a consortium of local and regional observational data networks that provide sustained, organized, and reliable high-resolution observational data for the long-term monitoring and assessment of surface climate conditions. “Harmonization”

Goals:
- Identify observational network protocols that could be affordably managed and implemented
- Leverage shared experiences from other sustained, long-term local and regional networks to identify future actions and priorities towards the development of a Midwestern Mesonet Consortium
- Identify product deliverables that would elevate the value of local and regional mesonets when integrated as a consortium
- Identify a business plan that would help support a consortium through funding of individual mesonet efforts

MONDAY, SEPTEMBER 28, 2015

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<th>Key Questions</th>
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| 1:00-1:15 PM | Beth Hall
Director, MRCC                                              | Introduction; Why we have gathered; Workshop Objective and Goals      | Why are we here?                                                              |
|            | Stu Foster
Kentucky State Climatologist; Kentucky Mesonet, Western Kentucky University |                                                                      |                                                                                 |
| 1:15-1:35 PM | Jeff Andresen
Michigan State Climatologist, Michigan Mesonet, Michigan State University | Highlights of ASABE and AASC Measurement, Instrumentation, and Data Standards | What technical standards and protocols have already been researched and published? |
| 1:35-1:50 PM | Chris Fiebrich
Oklahoma Mesonet, Oklahoma University                       | Technical lessons learned: Oklahoma Mesonet
Getting OK Mesonet into ACIS, precipitation and winter-freeze issues.
Mesonet site becoming Co-op? Benefits? Drawbacks? | What are some technical lessons learned from other mesonets? Choosing instruments, siting challenges, standardizing data to blend with other data networks, QA/QC of data. What are some problems/issued faced with putting data into a more regionally accessible resource/database? |

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<td>1:50-2:05 PM</td>
<td><strong>Nathan Edwards</strong>&lt;br&gt; <em>South Dakota Mesonet, South Dakota State University</em></td>
<td>Technical lessons learned: SD Mesonet?</td>
<td>• What are some technical lessons learned from other mesonets?</td>
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| 2:05-2:40 PM | **ALL**                                  | Discussion on priorities, short-term and long-term investments of instrumentation standards and protocols | • Should the various mesonets seek to conform? Why or why not?  
• At what rate should technical standards be implemented?  
• What are the costs (monetary, scientific, promotional value) to standardizing?  
• What are some frustrations and things we like about the various instruments/sensors? Precipitation, wind, solar, temperature? (if we make some standardizing standards, how does this impact / help our headaches, happiness?). Calibration issues? Radiation shields? |
| 2:40-2:55 PM | BREAK                                   |                                                                      |                                               |
| 2:55-3:15 PM | **Pat Guinan**<br> *Extension Missouri State Climatologist; Missouri Mesonet, University of Missouri*  
**John Travlos**<br> *Missouri Mesonet, University of Missouri* | Data delivery and accessibility - a Missouri Mesonet perspective | • Is there value to standardizing data delivery and accessibility of mesonet data?  
• How is QA/QC being addressed across mesonet? (will throw up a teaser about this for future discussion) |
| 3:15-3:50 PM | **Leslie Stoecker**<br> *Climatologist; Applications Developer, MRCC* | ACIS overview and mapping interface Hourly Database plans for privacy | • How can ACIS work to advance product development and delivery across larger spatial scales?  
• How can a consortium database preserve privacy while promoting mesonet data value? |
| 3:50-4:10 PM | **Paul Heppner**<br> *National Mesonet, Global Science and Technology, Inc.* | National Mesonet - What is it and how can it help local/state mesonets? | • Who shares their data regularly state/federal organizations (e.g., NWS, DNR, Corps). Do people have formal relationships with any groups?  
• Any idea how this has impacted marketing/promotion of mesonets?  
• Who is a regular user of National Mesonet and MADIS? How are mesonets being used or considered compared to other networks on MADIS/National Mesonet? |
| 4:10-4:45 PM | **ALL**                                  | Discussion on data delivery and accessibility for regional product development QA/QC Challenges | • Is Intellectual Property an issue with product development? If so, at what point?  
• Who shares their data regularly state/federal organizations (e.g., NWS, DNR, Corps). Do people have formal relationships with any |

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### Session 2: Midwest Mesonet Business Plan Considerations

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| 8:30-9:45 AM    | ALL                     | Sustaining a mesonet: challenges, costs, risks                       |  ● What resources are requested in the startup phase of a mesonet?  
  ● What are some lessons learned in the process?  
  ● What source of funding do you rely upon to cover operating and maintenance costs?  
  ● What is the value each station provides and to whom?  
  ● How are mesonets currently being marketed?  
  ● Who should invest in sustaining an observation network and why? |
| 9:45-10:00 AM   |                         | BREAK                                                                |                                                                                                                                               |
| 10:00-11:00 AM  | Stu Foster              | Building a business model to unlock the value of a mesonet           |  ● What is the value proposition for a mesonet?  
  ● What are the building blocks of a business model?  
  ● What are some frameworks for structuring a mesonet as a viable business? |
| 11:00-11:45 AM  | ALL                     | Consideration of a regional approach to mesonet marketing and promotion |  ● What are the benefits and drawbacks to developing a regional, multi-mesonet consortium from a (1) scientific / technical, and a (2) business perspective?  
  ● What is the next step in developing a regional, multi-mesonet consortium in the Midwest? |
| 11:45 AM        |                         | Adjourn Workshop                                                     |                                                                                                                                               |


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