



**Utilizing Weather Data And GIS To Inform,
Alert, And Look Forward**
OKSCAUG SUMMER USER GROUP MEETING



OVERVIEW

- Access Midstream overview
- Weather data and service vendors
- How ACMP currently consumes weather data
- Future integration possibilities
- Q&A – the geekiest segment

ACCESS MIDSTREAM OVERVIEW

- HQ in Oklahoma City
- Operating in 9 states
- Midstream operations only – no E&P, no distribution
- Onshore and domestic projects only
- Officially Access Midstream 1 January 2013
 - Previously Chesapeake Midstream

GIS AT ACCESS

- **Departmental Support**
- **ESRI, XMap**
- **MAV – Midstream Asset Viewer webmap**
- **2 GIS IT Folks**

WEATHER VENDORS

- **Weather Decision Technologies (WDT) – Norman, OK**
 - Hazardous weather outlooks
 - 7-day planning outlooks for each operating area
 - Weather event support
 - iMap Pro weather mapping application with alerting capabilities
 - Real-time weather data in GIS formats

- **EarthRisk Technologies – Chicago, IL**
 - Weather event support
 - Weekly model run analysis
 - Long term forecasting (front season)
 - Executive summer and winter outlook presentations
 - Max / Min temperature and gas supply matrix

■ Access-specific weather mapping application:

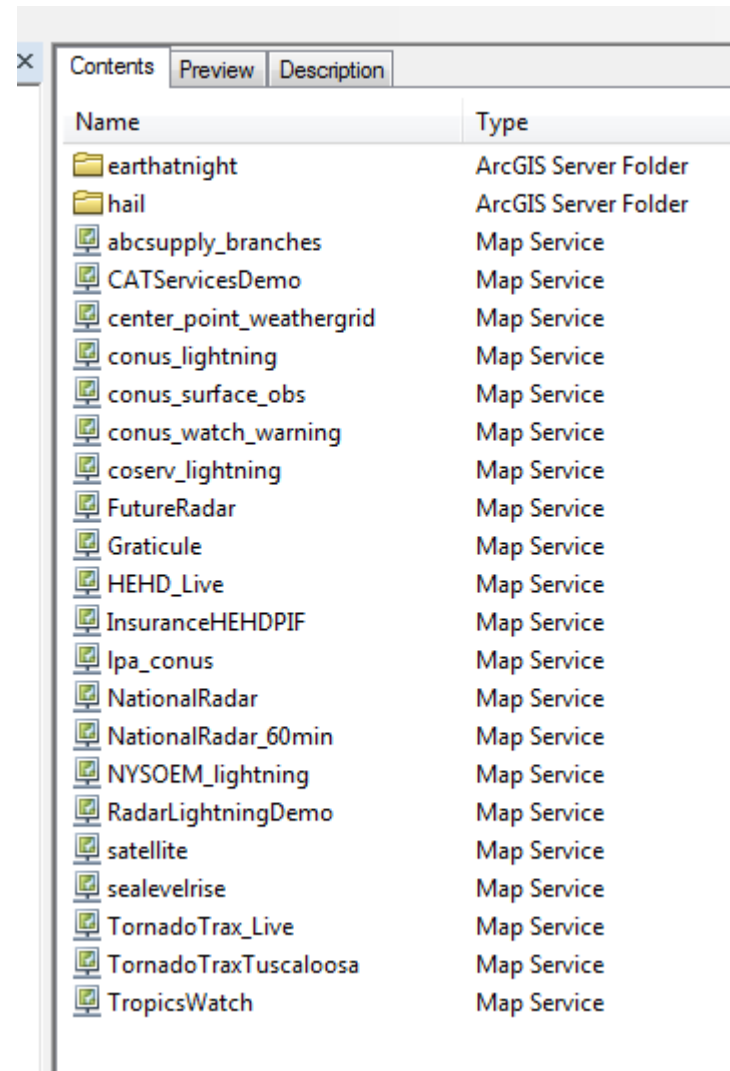
- Unlimited internal use
- Includes our major above-ground assets
- Employee version – no alerting panel
- Alerting version for Security Operations Center and Pipeline Control teams
- Data is refreshed rapidly and has already gone through QA/QC
- Future radar and lightning predictor products help give field employees lead time
- Quarterly updates provided, alerts managed internally



iMap Pro Demo

WEATHER DATA IN ARCGIS

- Currently used in our new Operations Dashboard
- SWARM tiles include:
 - CONUS Radar Mosaic (5 min update)
 - CONUS High Precision Lightning Strike (1 min update)
 - CONUS Lightning Prediction (5 min update)
 - CONUS NWS Watches and Warnings (1 min update)
 - Rotation Tracking (5 min update)



Name	Type
earthatnight	ArcGIS Server Folder
hail	ArcGIS Server Folder
abcsupply_branches	Map Service
CATServicesDemo	Map Service
center_point_weathergrid	Map Service
conus_lightning	Map Service
conus_surface_obs	Map Service
conus_watch_warning	Map Service
coserv_lightning	Map Service
FutureRadar	Map Service
Graticule	Map Service
HEHD_Live	Map Service
InsuranceHEHDPIF	Map Service
lpa_conus	Map Service
NationalRadar	Map Service
NationalRadar_60min	Map Service
NYSOEM_lightning	Map Service
RadarLightningDemo	Map Service
satellite	Map Service
sealevelrise	Map Service
TornadoTrax_Live	Map Service
TornadoTraxTuscaloosa	Map Service
TropicsWatch	Map Service

HOW ACCESS CURRENTLY CONSUMES WEATHER DATA

- **Real-time data and alerting**
 - Field and office employees – seek shelter
 - Field employees change behaviors and equipment based on excessive heat, high wind, lightning, etc
- **Short term and mid range forecasts (up to 15 days)**
 - Helps plan for OSHA regulations pertaining to safe working conditions
 - Allows for project timeline considerations such as rain days, construction delays, planning maintenance, type and quantity of chemical, transportation issues
- **Front Season forecasts**
 - Forecast potential demand in population centers
 - Helps predict rig count
 - Long term material and bulk ordering

FUTURE PLANS

- Increase forecast locations to include 24-hour manned facilities
- Building e-mail distribution lists for alerting – mobile and floating personnel
- Mobile alerting
- Integrate weather data into truck tracking to utilize geofence triggered alerting
- Continue company-wide weather training

QUESTIONS OR COMMENTS?

