

— *Working Group Summary* —



Weather Related Service Management (WRSM)

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Session Goals

- Address weather-related needs of satellite industry for Earth/space link management
 - Forecasting of weather and its application to satellite link management
 - Weather data observation, modeling, and statistical analysis



Presenters/Panelists

- Wallace Tai, JPL
- Faramaz Davarian, JPL
- Shervin Shambayati, JPL
- Robert Sniffin, JPL
- Wayne Baggett, NOAA
- Russell Fang, HNS
- Robert Watson, University of Bath
- Tom Shaw, OITC



Key Points

- Weather forecasting is a promising approach for the mitigation of weather-related anomalies
- Commercial, scientific, and military satellite systems are in the process of employing weather-related services for the management of K-band and higher frequency links



Conclusions

- High temporal and spatial resolutions are necessary to reduce forecasting errors
- The use of local mesonets will improve performance
- Challenges
 - Conversion of weather forecasts to channel forecasts
 - Paradigm shift in link management and spacecraft operation



Future of the Working Group

- Will meet annually at future GSAW sessions
- Will invite a broader participation in our next meetings
 - Mission managers
 - Spacecraft developers
 - Science instrument PIs
 - Military representation