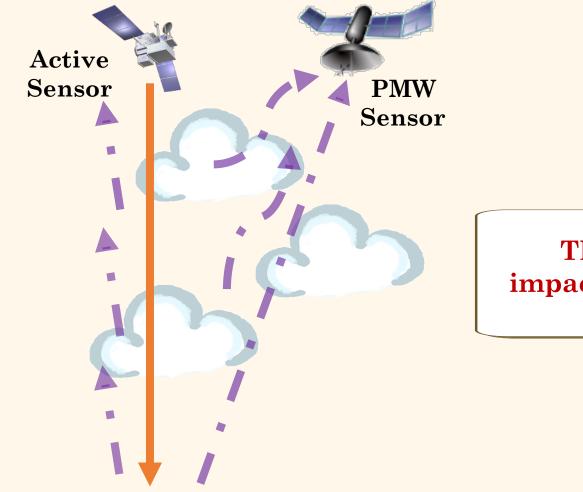
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Unraveling the Impact of Multi-Layered Precipitation Systems on Satellite-based Quantitative Precipitation Estimates

Malar Arulraj, Veljko Petković, Shruti Upadhyaya, Huan Meng, Ralph R. Ferraro

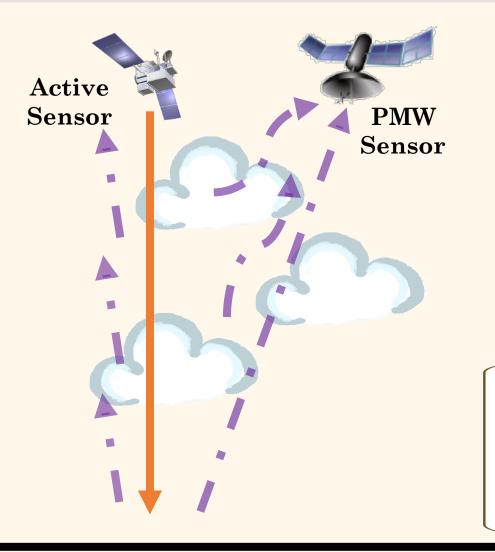


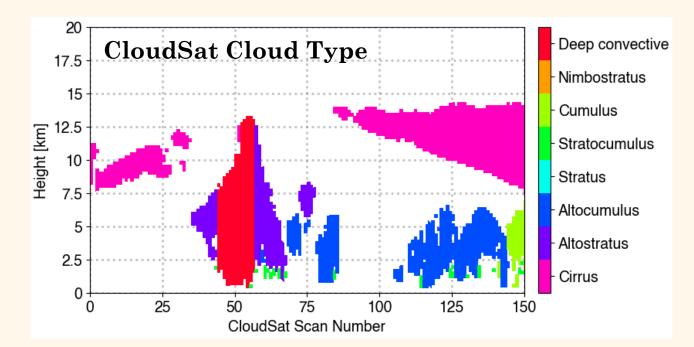
Three-dimensional structure of clouds impacts retrievals from remote-sensing-based sensors

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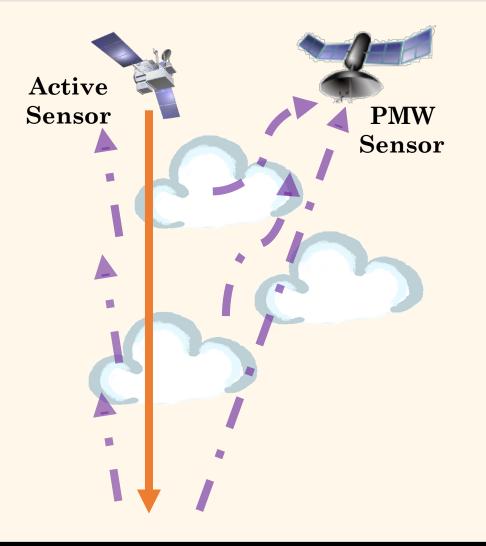


- Characterize multi-layered precipitation systems.
- Investigate the link between satellite-based QPEs and precipitation vertical structure.

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Key Takeaways:

- Multi-layered clouds are found to be spatially organized over the Southeast, Midwest and Western US regions.
- When comparing the two (single vs. multi), higher biases of both DPR and GMI QPE products are observed in multi-layered systems.

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