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Four Decades of Microwave Satellite Soil Moisture Observations:  
Part 1. A Review of Retrieval Algorithms

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**Highlights:**

- Review of developments of microwave soil moisture retrieval algorithms
- Passive and active microwave soil moisture retrieval algorithms are presented
- Emphasis on physics based models used in the soil moisture retrieval process
- Discussed current research efforts to improve individual aspects of the algorithms
- Alternate retrieval methodologies have also been presented

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