



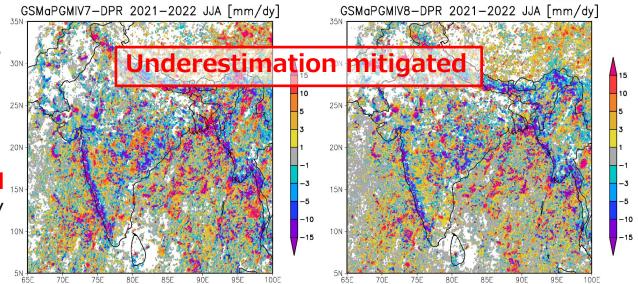
## Evaluation of the latest version of the Global Satellite Mapping of Precipitation (GSMaP) focused on orographic rainfall

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## **Contents**

- Precipitation estimates from PMW are often underestimated over mountainous regions such as Western Ghats (WG) due to presence of shallow but heavy precipitation associated with warm rain processes.
- To improve the underestimation of orographic precipitation, the orographic/nonorographic rainfall classification scheme has been implemented globally in the GSMaP algorithm.



- Overview & history of the scheme
- Updates of the latest version
- Evaluation of the scheme
  - ✓ Bias of monthly mean rainfall is mitigated
  - ✓ Overestimation is also mitigated
  - ✓ Rainfall detection is one of remaining issue

Performance indices against GSMaP\_ISRO (IMD gauge corrected GSMaP)

	NUM			RAIN AMOUNT	
	POD	FAR	MISS	/ISRO	MISS
GMIV04	0.22	0.04	0.78	1.44	0.53
GMIV05	0.23	0.04	0.77	1.01	0.51

