

MBL cloud rain rate retrievals during MAGIC

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MAGIC Breakout Session

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Stony Brook University

BROOKHAVEN
NATIONAL LABORATORY

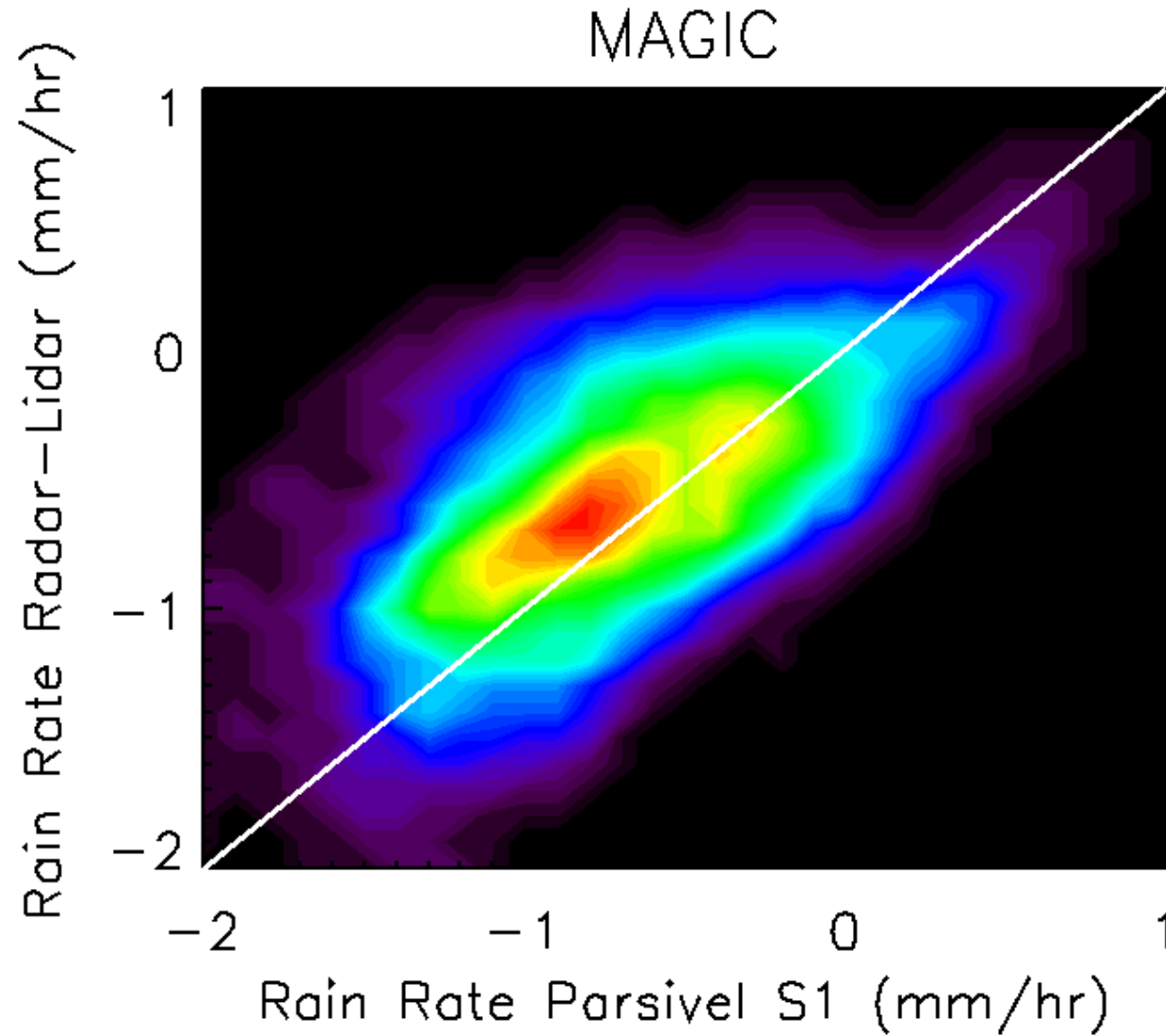
a passion for discovery



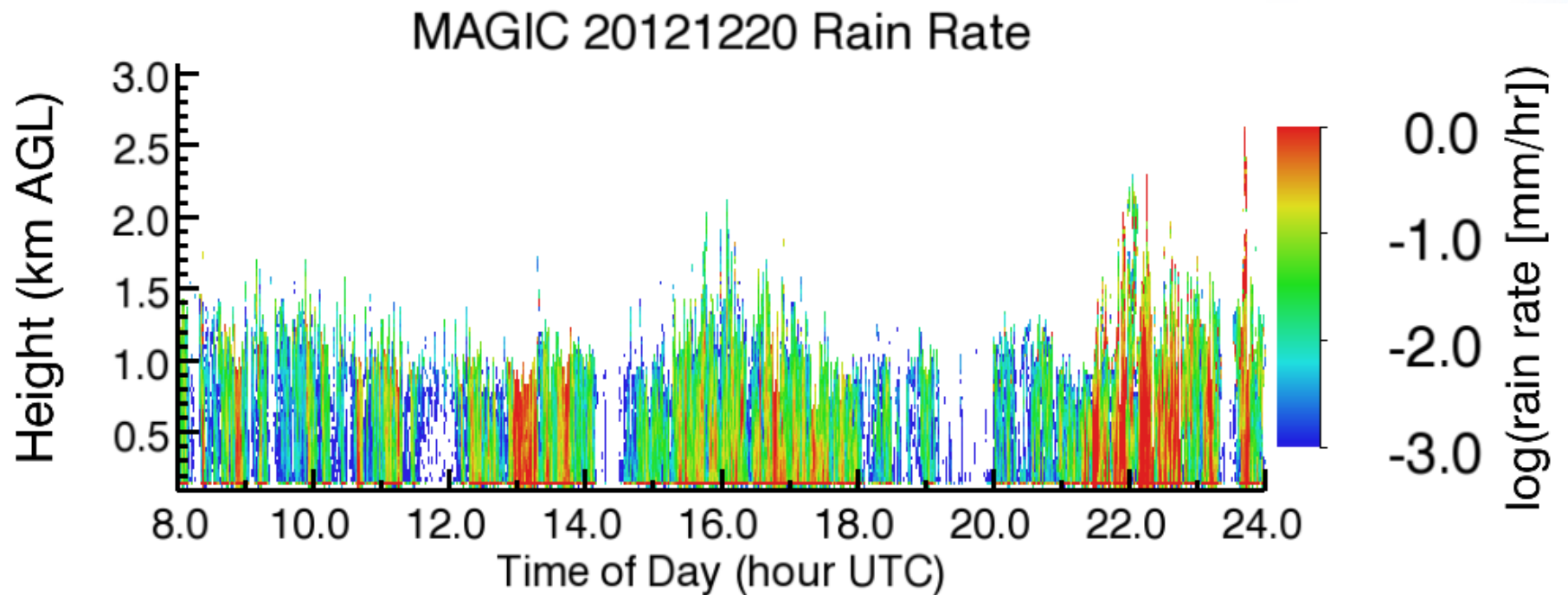
Introduction

- ❑ Rain rate retrievals compared with Parsivel2
- ❑ 30 days of stratiform and cumuliform conditions
- ❑ Radar-Lidar retrievals based on O'Connor 2005
- ❑ PI product in preparation

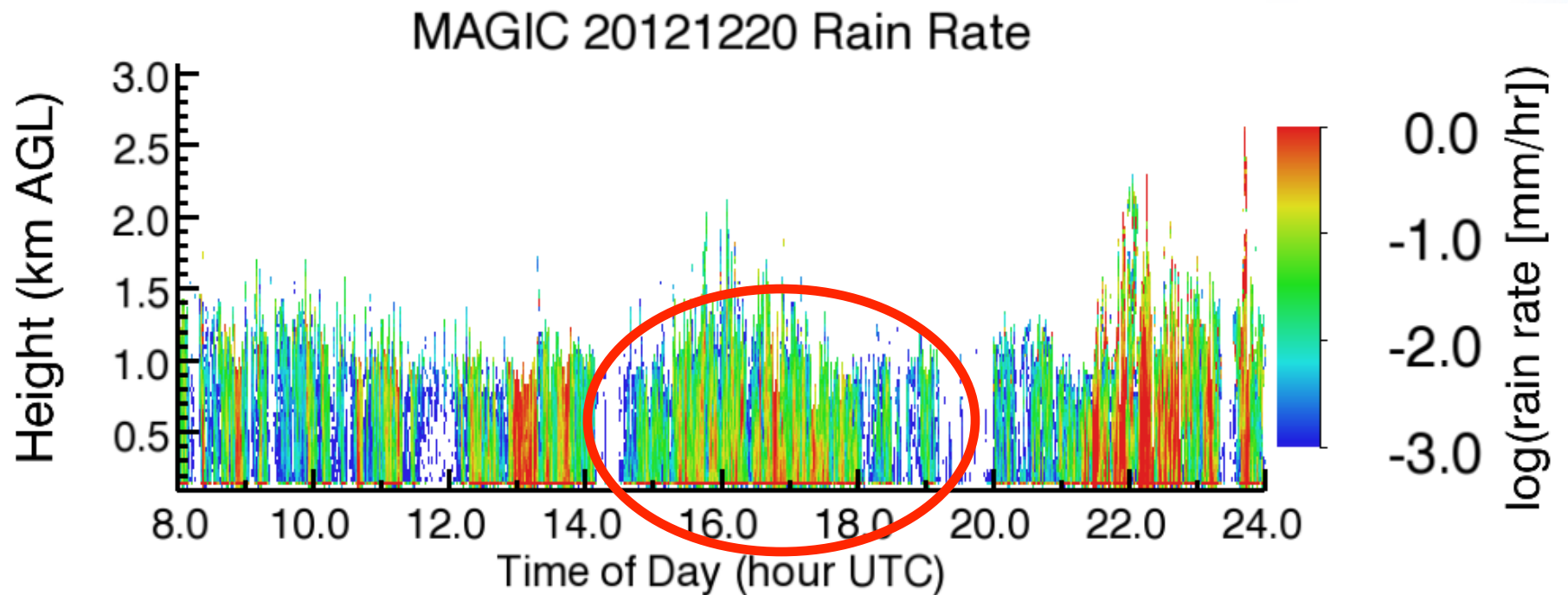
Rain Rate Retrievals vs Parsivel



Rain Rate Retrieval 20121220



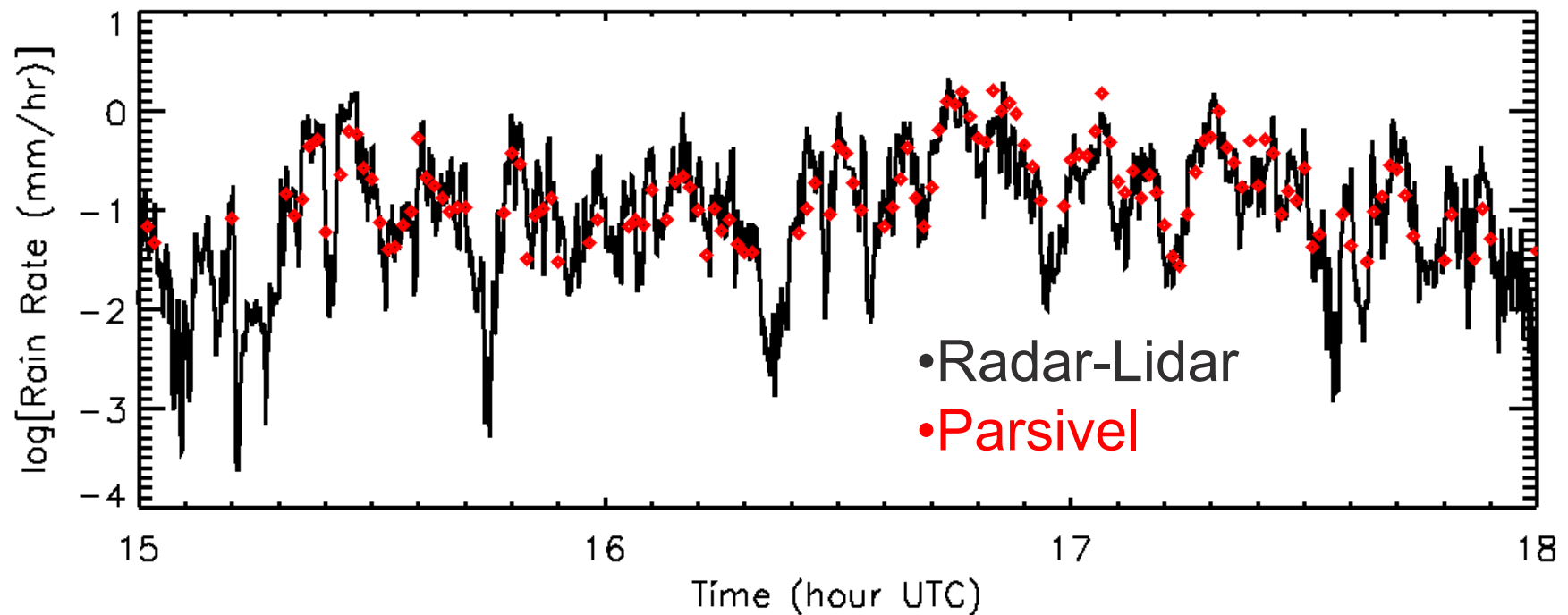
Rain Rate Retrieval 20121220



Rain Rate Retrieval vs Parsivel

Rain Rate

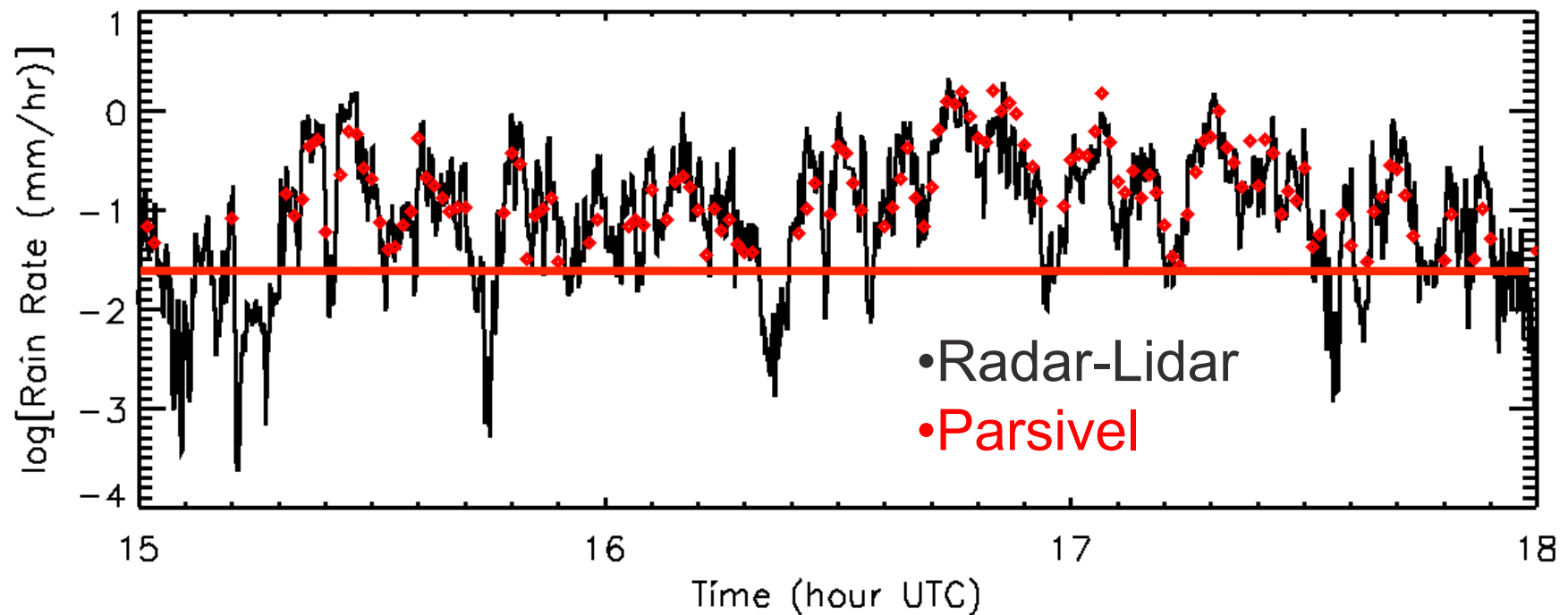
MAGIC 20121220 @ 190 meters



Rain Rate Retrieval vs Parsivel

Rain Rate

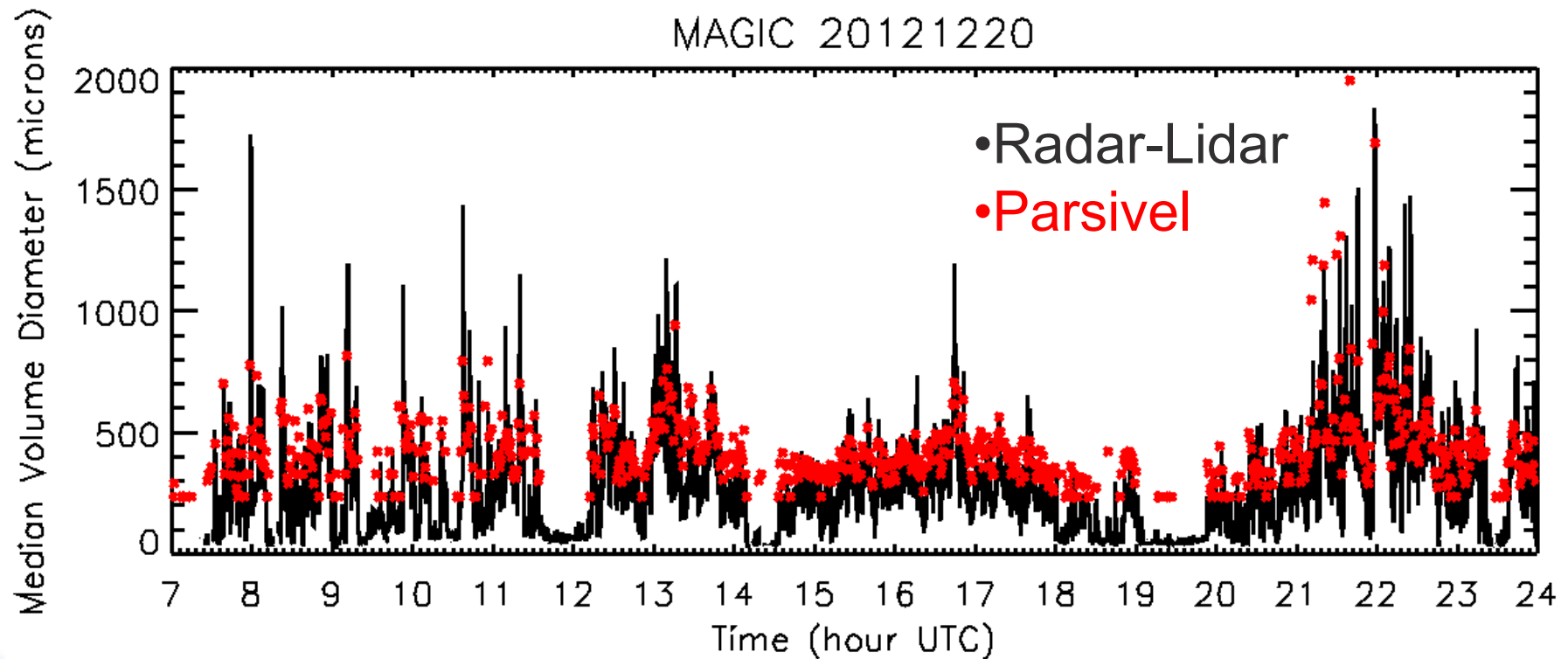
MAGIC 20121220 @ 190 meters



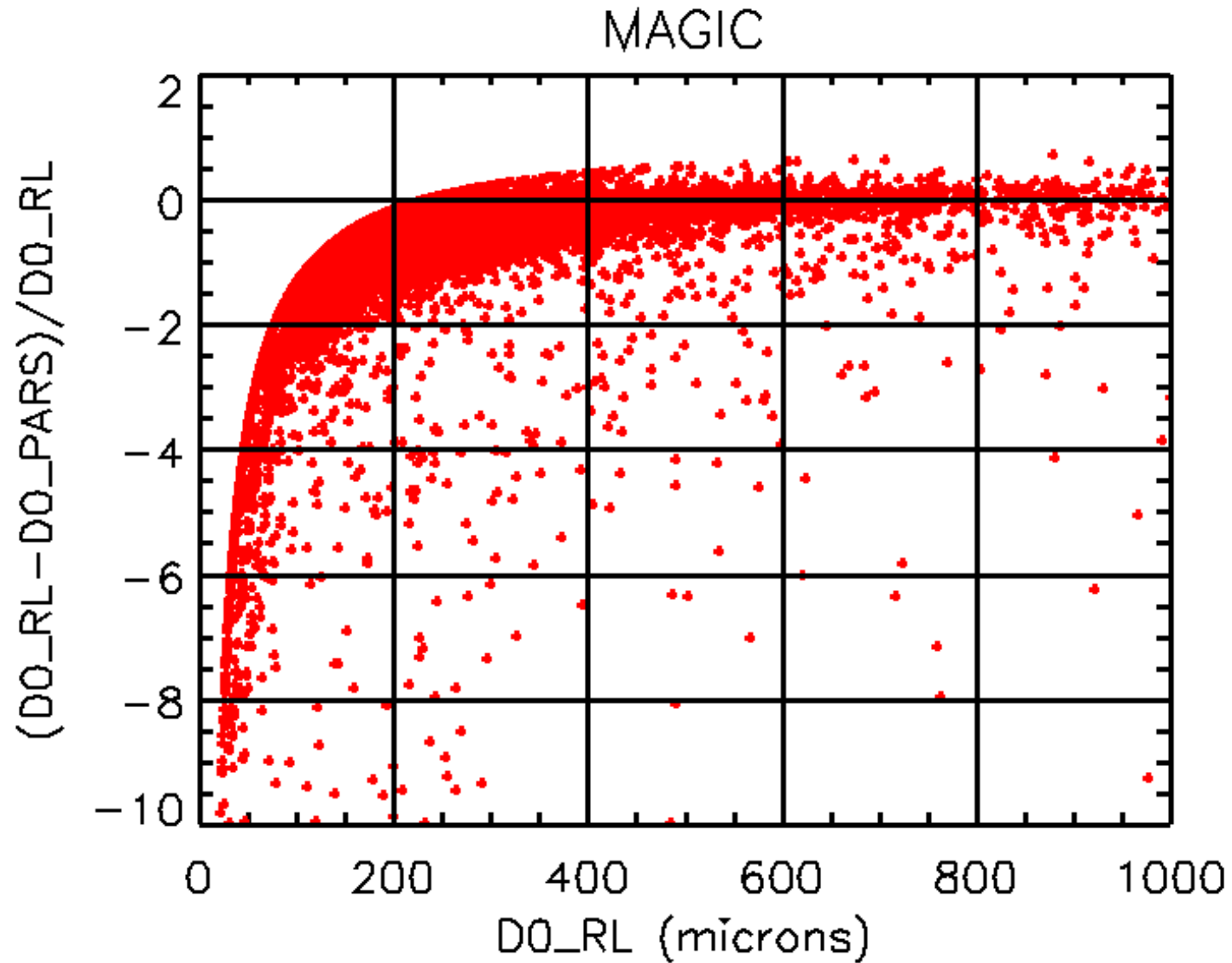
D₀ Retrieval vs Parsivel

Median Volume Diameter

MAGIC 20121220



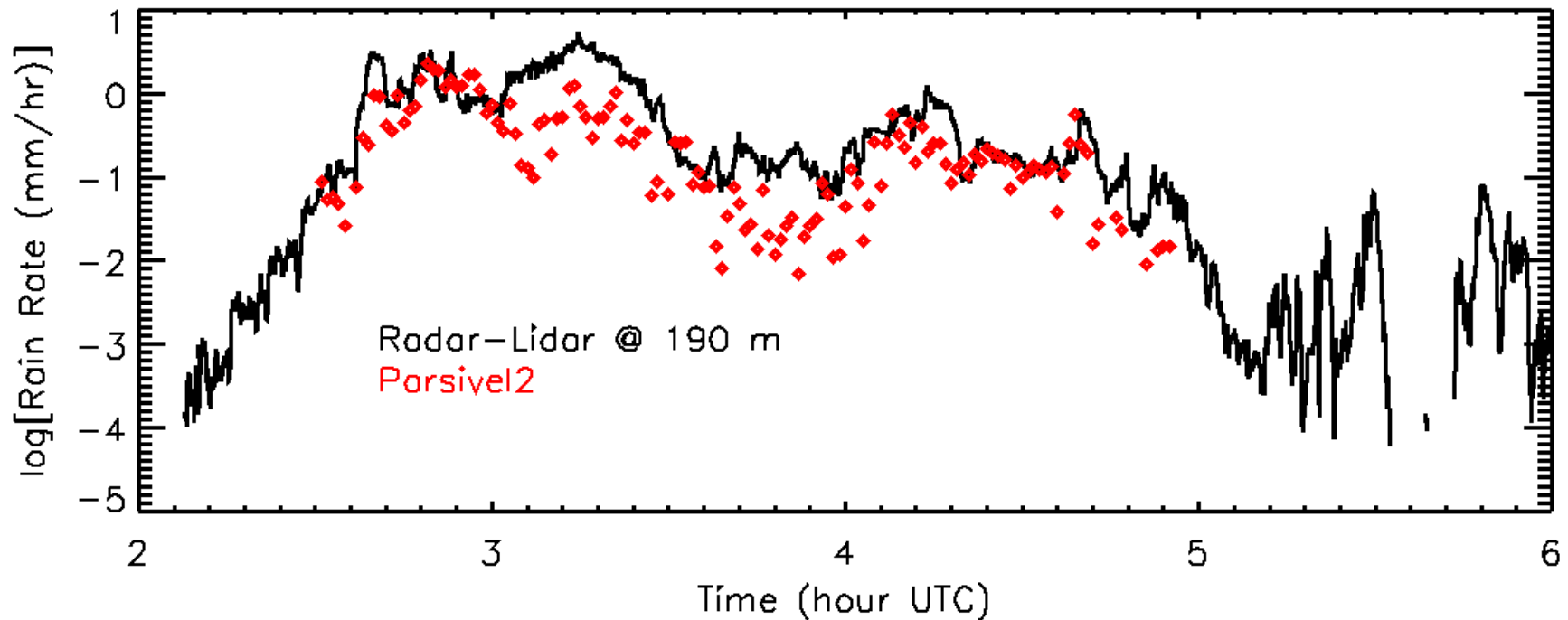
Parsivel D_0 departure wrt Retrieval



Rain Rate Retrieval vs Parsivel

Rain Rate

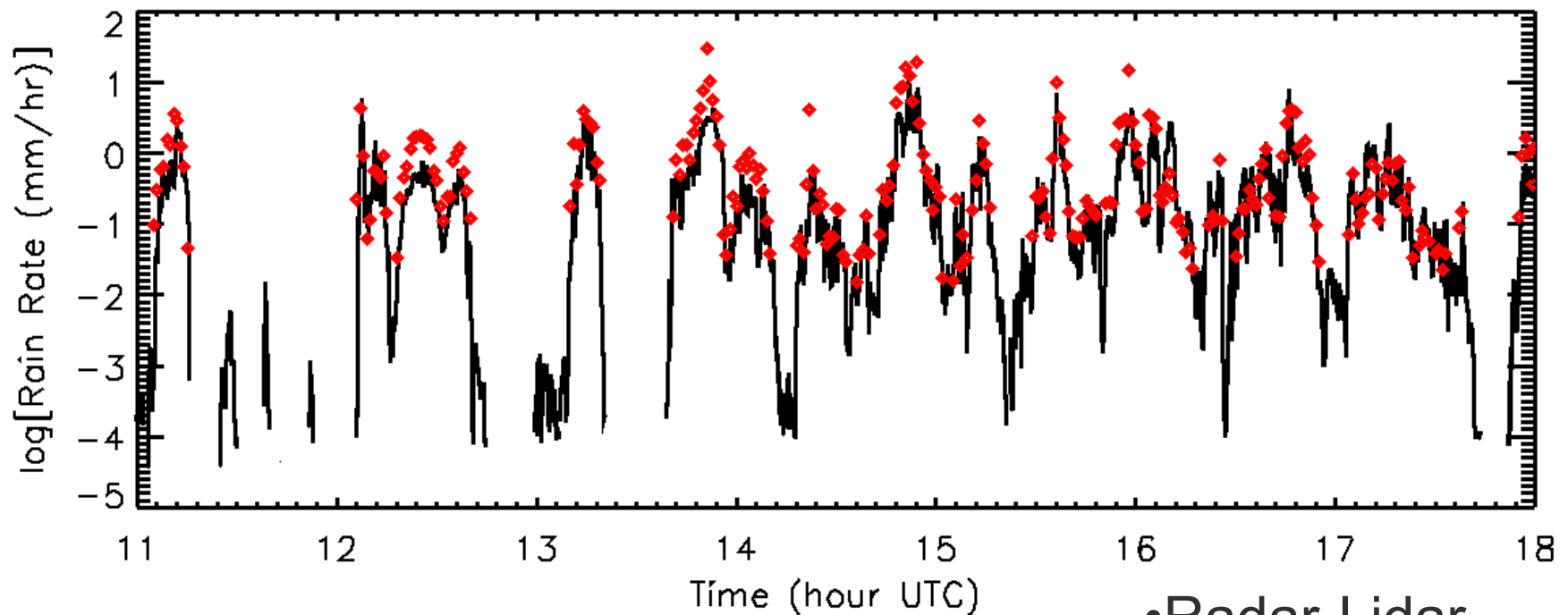
MAGIC 20121213



Rain Rate Retrieval vs Parsivel

Rain Rate

MAGIC 20121218 @ 190 meters

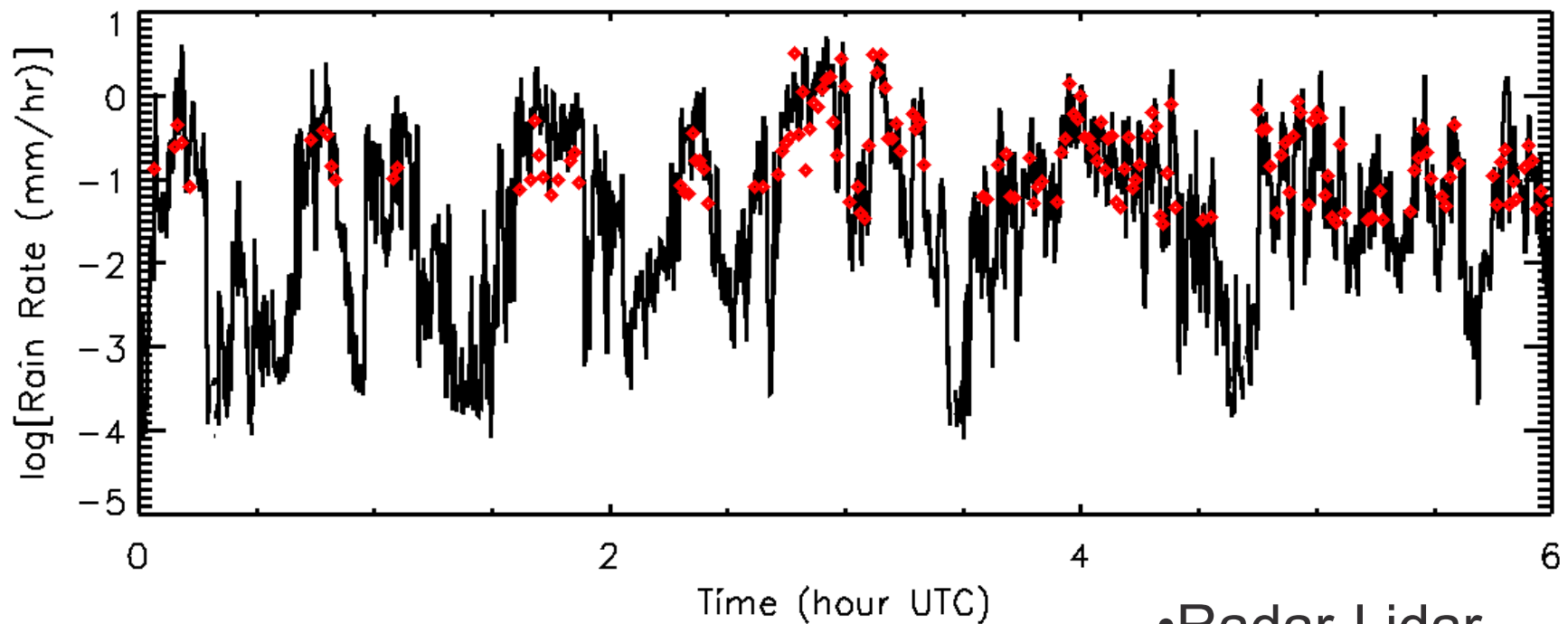


- Radar-Lidar
- Parsivel

Rain Rate Retrieval vs Parsivel

Rain Rate

MAGIC 20121221 @ 190 meters



- Radar-Lidar
- Parsivel

Rain Rate Retrieval vs Parsivel

Rain Rate

MAGIC 20121128 @ 190 meters

