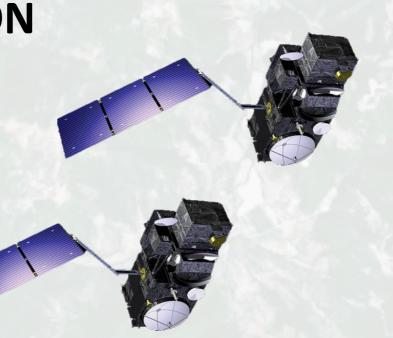
NEW SENTINEL-3 INLAND WATER L2 THEMATIC PRODUCTS

FULL MISSION REPROCESSING (FMR) WITH BASELINE COLLECTION 005 (BC005)

MISSION INFORMATION

TWO SATELLITES MISSION S3A & S3B SAR ALTIMETRY Ku & C BAND ALTITUDE 815 km INCLINATION 98.6 deg **GROUND TRACK DEVIATION 1km REVISIT TIME 27 days** DATA SINCE 2016 (S3A) 2018 (S3B)



BC005 VALIDATION RESULTS OVER RIVERS IDEAL SINGLE RIVER CASE

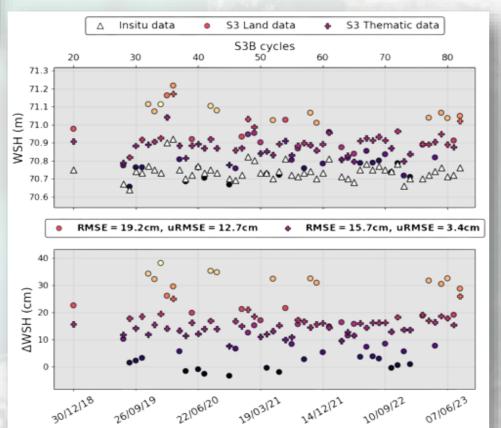


CASE SHOWN FOR OISE RIVER (FR) STATISTICAL ANALYSIS BASED ON THIN RIVER WITH LOW SLOPE.

PERFORMANCES OVER IDEAL RIVERS ARE SIMILAR TO LAKES. uRMSE

uRMSE OVER **LOW SLOPE RIVERS REDUCED BY** A FACTOR OF 4

smaller S3 Thematic data





DEDICATED MASK

AREAS

PROCESSING TO IMPROVE

ZERO-PADDING

WAVE SURFACE

HEIGHT (WSH)

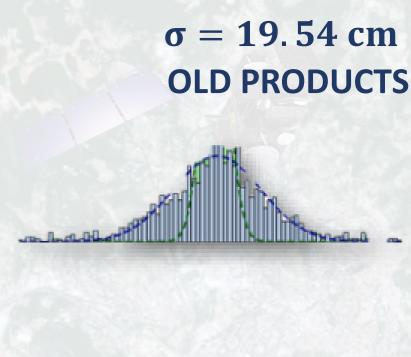
FOR INLAND WATER

HAMMING WINDOW

FILTER TO REDUCE

CONTAMINATION

WAVEFORM



WHAT'S

NEW IN

BC005

 $\sigma = 5.84$ cm **NEW PRODUCTS**

RETRACKING NOISE DISTRIBUTION

OFF-SET CENTER OF GRAVITY (OCOG) RETRACKING **NOISE OVER LAKES REDUCED BY** A FACTOR OF 4

RETRACKING NOISE

LAKES: 1 TO 5 km^2 @ LOW LAT.

BC005 IN-SITU COMPARISON



DISCREPANCIES WITH RESPECT TO IN-SITU DECREASED BY 3 cm. MEDIAN uRMSE

STATISTICAL RESULT BASED ON COMPARISON WITH 22 IN-SITU SCHAPI STATIONS INCLUDING 2 COMPLEX RIVERS

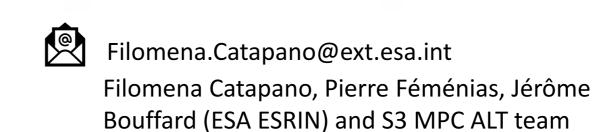


NADIR ACQUISITION FOR **HYDROLOGICAL TARGETS OPEN LOOP TRACKING** MODE USED ON-BOARD MORE THAN 65K TARGETS 97% PERFORMANCE OF **WAVEFORM ACQUISITION** IMPROVE/DEFINE YOUR OWN TARGET @

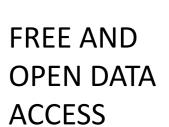


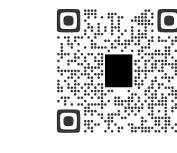






S3 THEMATIC **PRODUCTS DATA USER HANDBOOK**





FULL MISSION REPROCESSING NEWS

