

	CATDS CEC-IFREMER v2	CATDS CPDC	CATDS CEC-LOCEAN v2013
$T_b$	L1b Reconstructed on EASE grid	L1b Reconstructed on EASE grid ( $\geq 25\text{km}$ )	ESA L1c (reconstructed on ISEA-15km grid)
SSS retrieval	SSS( $T_{bx}+T_{by}$ ) +: <i>not affected by Faraday rotation</i> -: <i>no check of dwell line consistency</i>	L2OS v5 (Dwell-line; iterative retrieval) +: <i>T<sub>b</sub> weighted by radiometric accuracy; wind adjusted &amp; theoretical error estimate</i> -: <i>complex</i>	L2OS v5 (Dwell-line; iterative retrieval) +: <i>T<sub>b</sub> weighted by radiometric accuracy; wind adjusted &amp; theoretical error estimate</i> -: <i>complex</i>
Wind-model	Model 2	Model 1	Model 1
Calibration	Single OTT + daily $5^\circ \times 5^\circ$ adjustment wrt SSS climato +: <i>single OTT calibration</i> -: <i>need additional bias correction (in time and space) that mask part of interannual variability</i>	Variable OTT (~every 2 weeks) +: <i>correct most seasonal biases (in reprocessed version only)</i> -: <i>remaining latitudinal biases (within <math>\sim \pm 0.5\text{pss}</math>)</i>	Variable OTT (~every 2 weeks) +: <i>correct most seasonal biases</i> -: <i>remaining latitudinal biases (within <math>\sim \pm 0.5\text{pss}</math>)</i>
Flagging	interorbit consistency / RFI % +: <i>more refined than L2OS flags</i>	L2OS 'retrieval flags' -: <i>insufficient sorting of RFI</i>	L2OS 'retrieval flags' and L2OS RFI flag +/-: <i>better RFI sorting than CPDC but less efficient than CEC-IFREMER</i>
Region of FOV considered	AFFOV only +: <i>avoid suspicious <math>T_b</math> in EAFFOV</i> -: <i>reduced number of <math>T_b</math>s</i>	EAFFOV ( $\pm 400\text{km}$ from swath centre) +: <i>keep large incidence angle variation (<math>\Rightarrow</math> better wind adjustment)</i> -: <i>more suspicious <math>T_b</math> in EAFFOV than in AFFOV</i>	EAFFOV provided $130T_b$ in AFFOV ( $\sim \pm 300\text{km}$ from swath centre) +: <i>keep large incidence angle variation (<math>\Rightarrow</math> better wind adjustment) and numerous <math>T_b</math> in AFFOV</i> -: <i>more suspicious <math>T_b</math> in EAFFOV than in AFFOV</i>
Average	Simple average after thorough filtering of inconsistent SSS + <i>interorbit consistency check</i>	Simple average - <i>no interorbit consistency check</i>	Weighted by retrieval error and SSS equivalent resolution + <i>measurement spatial resolution</i> - <i>no interorbit consistency check</i>
Format	Netcdf – rectangular grid	Netcdf – EASE grid	Netcdf – rectangular grid
Access	support@catds.fr	support@catds.fr	support@catds.fr
Period	June 2010-December 2012	Reprocessed: Jan 2010-April 2012/ Real time up to now	Jan 2010-Dec 2012
Resolution	Daily, 10-days, Monthly, $0.25^\circ$ , $0.5^\circ$ , $1^\circ$	Daily, 10-days, Monthly, 50km, 100km, 200km	Monthly, 10-days, $0.25^\circ$ (100kmx100km averages)

Acronyms:

AFFOV: Alias Free Field of View  
EAFFOV: Extended Alias Free Field of View  
ESA: European Space Agency  
EASE-grid: Equal-Area Scalable Earth Grid  
ISEA-grid: Icosahedron Snyder Equal Area Grid  
 $T_{bx}+T_{by}$ : first Stokes parameter  
 $T_b$ : Brightness temperature