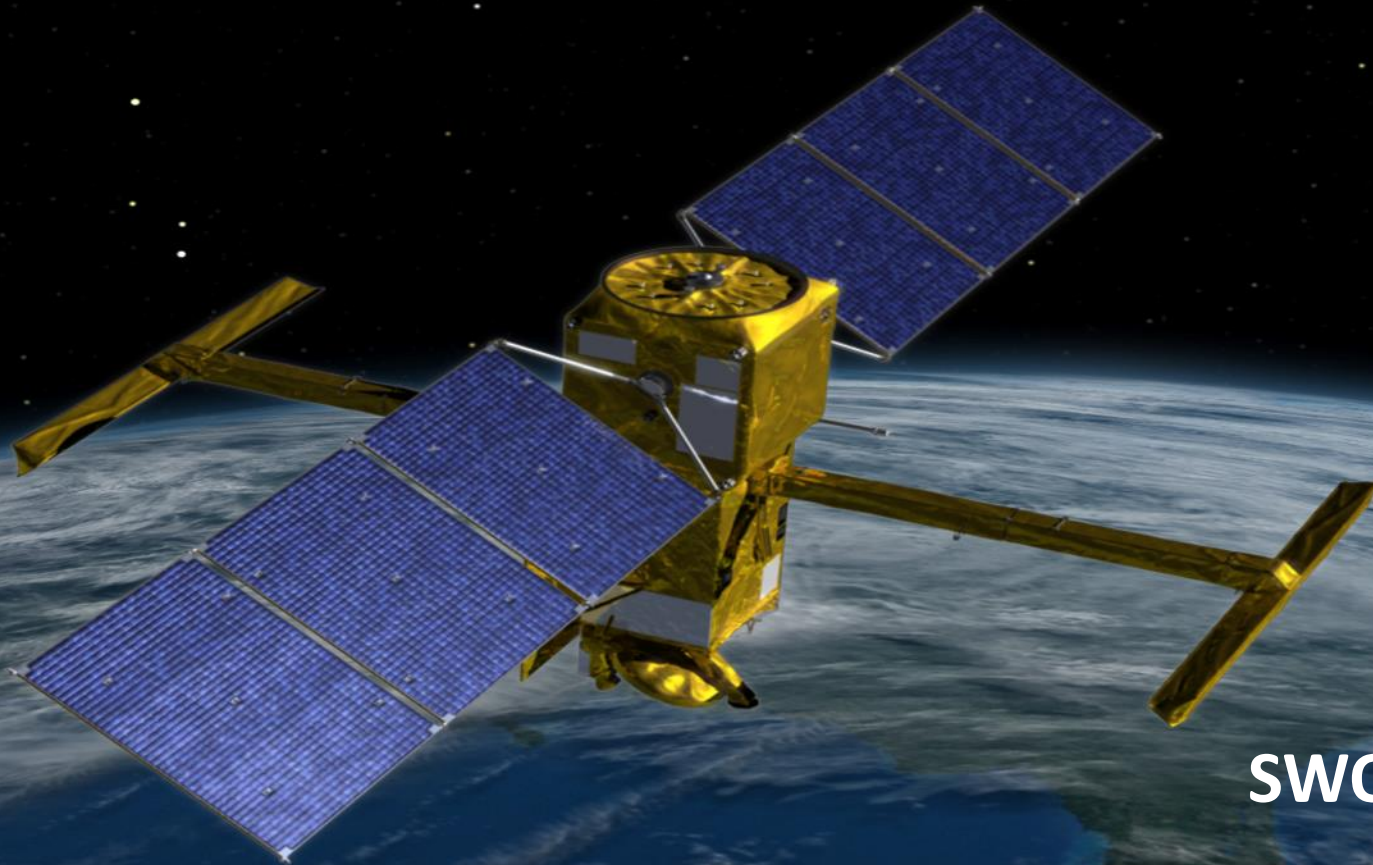




Oceanography: LR SWOT Data and Ocean CalVal

October 15th, 2025



SWOT Science Team meeting

Alejandro Bohe (CNES)

on behalf of the CNES/JPL algorithm team

Oceanography: LR SWOT Data and Ocean CalVal

Session chairs: Alejandro Bohé, Curtis Chen

(Wed, Oct 15 2025, 08:45 - 10:45)

Splinter room for Oceanography (Auditorium)

08:45 - 08:50:

[Introduction of the LR SWOT Data and Ocean CalVal session](#)

Alejandro Bohé (CNES, France), Curtis Chen (JPL, USA)

08:50 - 09:00:

[Impacts of FPGA Reconfigurations on Data Availability Over Polar Regions](#)

Albert Chen (JPL), Curtis Chen (JPL, USA), Alejandro Bohé (CNES, France)

09:00 - 09:10:

[Phase unwrapping over ice sheets](#)

Albert Chen (JPL), Curtis Chen (JPL, USA), Alejandro Bohé (CNES, France)

09:10 - 09:20:

[Doppler centroid jumps, potential performance improvement near coasts](#)

Albert Chen (JPL), Alex Fore (JPL), Curtis Chen (JPL, USA), Alejandro Bohé (CNES, France)

09:20 - 09:30:

[Improving the rain, ice and xcal flags](#)

Mathias Raynal (CNES, France)

09:30 - 09:40:

[Status on KaRIn's wind speed estimates](#)

Alejandro Bohé (CNES, France), Bryan Stiles (JPL, USA)

09:40 - 09:55:

[Refining KaRIn's SWH estimates \(open ocean and coastal\)](#)

Alejandro Bohé (CNES, France)

09:55 - 10:15:

[Sea State Bias: current work towards improving the model](#)

Alejandro Bohé (CNES, France)

10:15 - 10:30:

[Sea State Bias: using KaRIn's wind speed and SWH estimates as inputs to the correction](#)

Beatriz Molero (CLS, France)

10:30 - 10:45:

[Validation and calibration of the 2km x 2km mitigation Doppler](#)

Pierre Dubois (CLS, France)

Oceanography: LR SWOT Data and Ocean CalVal

Session chairs: Alejandro Bohé, Curtis Chen

(Wed, Oct 15 2025, 08:45 - 10:45)

Splinter room for Oceanography (Auditorium)

08:45 - 08:50:

[Introduction of the LR SWOT Data and Ocean CalVal session](#)

Alejandro Bohé (CNES, France), Curtis Chen (JPL, USA)

cryosphere

08:50 - 09:00:

[Impacts of FPGA Reconfigurations on Data Availability Over Polar Regions](#)

Albert Chen (JPL), Curtis Chen (JPL, USA), Alejandro Bohé (CNES, France)

09:00 - 09:10:

[Phase unwrapping over ice sheets](#)

Albert Chen (JPL), Curtis Chen (JPL, USA), Alejandro Bohé (CNES, France)

09:10 - 09:20:

[Doppler centroid jumps, potential performance improvement near coasts](#)

Albert Chen (JPL), Alex Fore (JPL), Curtis Chen (JPL, USA), Alejandro Bohé (CNES, France)

09:20 - 09:30:

[Improving the rain, ice and xcal flags](#)

Mathias Raynal (CNES, France)

09:30 - 09:40:

[Status on KaRIn's wind speed estimates](#)

Alejandro Bohé (CNES, France), Bryan Stiles (JPL, USA)

09:40 - 09:55:

[Refining KaRIn's SWH estimates \(open ocean and coastal\)](#)

Alejandro Bohé (CNES, France)

09:55 - 10:15:

[Sea State Bias: current work towards improving the model](#)

Alejandro Bohé (CNES, France)

10:15 - 10:30:

[Sea State Bias: using KaRIn's wind speed and SWH estimates as inputs to the correction](#)

Beatriz Molero (CLS, France)

10:30 - 10:45:

[Validation and calibration of the 2km x 2km mitigation Doppler](#)

Pierre Dubois (CLS, France)

Oceanography: LR SWOT Data and Ocean CalVal

Session chairs: Alejandro Bohé, Curtis Chen

(Wed, Oct 15 2025, 08:45 - 10:45)

Splinter room for Oceanography (Auditorium)

08:45 - 08:50:

[Introduction of the LR SWOT Data and Ocean CalVal session](#)

Alejandro Bohé (CNES, France), Curtis Chen (JPL, USA)

08:50 - 09:00:

[Impacts of FPGA Reconfigurations on Data Availability Over Polar Regions](#)

Albert Chen (JPL), Curtis Chen (JPL, USA), Alejandro Bohé (CNES, France)

09:00 - 09:10:

[Phase unwrapping over ice sheets](#)

Albert Chen (JPL), Curtis Chen (JPL, USA), Alejandro Bohé (CNES, France)

09:10 - 09:20:

[Doppler centroid jumps, potential performance improvement near coasts](#)

Albert Chen (JPL), Alex Fore (JPL), Curtis Chen (JPL, USA), Alejandro Bohé (CNES, France)

coastal

09:20 - 09:30:

[Improving the rain, ice and xcal flags](#)

Mathias Raynal (CNES, France)

09:30 - 09:40:

[Status on KaRIn's wind speed estimates](#)

Alejandro Bohé (CNES, France), Bryan Stiles (JPL, USA)

09:40 - 09:55:

[Refining KaRIn's SWH estimates \(open ocean and coastal\)](#)

Alejandro Bohé (CNES, France)

09:55 - 10:15:

[Sea State Bias: current work towards improving the model](#)

Alejandro Bohé (CNES, France)

10:15 - 10:30:

[Sea State Bias: using KaRIn's wind speed and SWH estimates as inputs to the correction](#)

Beatriz Molero (CLS, France)

10:30 - 10:45:

[Validation and calibration of the 2km x 2km mitigation Doppler](#)

Pierre Dubois (CLS, France)

Oceanography: LR SWOT Data and Ocean CalVal

Session chairs: Alejandro Bohé, Curtis Chen

(Wed, Oct 15 2025, 08:45 - 10:45)

Splinter room for Oceanography (Auditorium)

08:45 - 08:50:

[Introduction of the LR SWOT Data and Ocean CalVal session](#)

Alejandro Bohé (CNES, France), Curtis Chen (JPL, USA)

08:50 - 09:00:

[Impacts of FPGA Reconfigurations on Data Availability Over Polar Regions](#)

Albert Chen (JPL), Curtis Chen (JPL, USA), Alejandro Bohé (CNES, France)

09:00 - 09:10:

[Phase unwrapping over ice sheets](#)

Albert Chen (JPL), Curtis Chen (JPL, USA), Alejandro Bohé (CNES, France)

09:10 - 09:20:

[Doppler centroid jumps, potential performance improvement near coasts](#)

Albert Chen (JPL), Alex Fore (JPL), Curtis Chen (JPL, USA), Alejandro Bohé (CNES, France)

09:20 - 09:30:

[Improving the rain, ice and xcal flags](#)

Mathias Raynal (CNES, France)

09:30 - 09:40:

[Status on KaRIn's wind speed estimates](#)

Alejandro Bohé (CNES, France), Bryan Stiles (JPL, USA)

09:40 - 09:55:

[Refining KaRIn's SWH estimates \(open ocean and coastal\)](#)

Alejandro Bohé (CNES, France)

09:55 - 10:15:

[Sea State Bias: current work towards improving the model](#)

Alejandro Bohé (CNES, France)

10:15 - 10:30:

[Sea State Bias: using KaRIn's wind speed and SWH estimates as inputs to the correction](#)

Beatriz Molero (CLS, France)

10:30 - 10:45:

[Validation and calibration of the 2km x 2km mitigation Doppler](#)

Pierre Dubois (CLS, France)

data quality

Oceanography: LR SWOT Data and Ocean CalVal

Session chairs: Alejandro Bohé, Curtis Chen

(Wed, Oct 15 2025, 08:45 - 10:45)

Splinter room for Oceanography (Auditorium)

08:45 - 08:50:

[Introduction of the LR SWOT Data and Ocean CalVal session](#)

Alejandro Bohé (CNES, France), Curtis Chen (JPL, USA)

sea state measurements

08:50 - 09:00:

[Impacts of FPGA Reconfigurations on Data Availability Over Polar Regions](#)

Albert Chen (JPL), Curtis Chen (JPL, USA), Alejandro Bohé (CNES, France)

09:00 - 09:10:

[Phase unwrapping over ice sheets](#)

Albert Chen (JPL), Curtis Chen (JPL, USA), Alejandro Bohé (CNES, France)

09:10 - 09:20:

[Doppler centroid jumps, potential performance improvement near coasts](#)

Albert Chen (JPL), Alex Fore (JPL), Curtis Chen (JPL, USA), Alejandro Bohé (CNES, France)

09:20 - 09:30:

[Improving the rain, ice and xcal flags](#)

Mathias Raynal (CNES, France)

09:30 - 09:40:

[Status on KaRIn's wind speed estimates](#)

Alejandro Bohé (CNES, France), Bryan Stiles (JPL, USA)

09:40 - 09:55:

[Refining KaRIn's SWH estimates \(open ocean and coastal\)](#)

Alejandro Bohé (CNES, France)

09:55 - 10:15:

[Sea State Bias: current work towards improving the model](#)

Alejandro Bohé (CNES, France)

10:15 - 10:30:

[Sea State Bias: using KaRIn's wind speed and SWH estimates as inputs to the correction](#)

Beatriz Molero (CLS, France)

10:30 - 10:45:

[Validation and calibration of the 2km x 2km mitigation Doppler](#)

Pierre Dubois (CLS, France)

Oceanography: LR SWOT Data and Ocean CalVal

Session chairs: Alejandro Bohé, Curtis Chen

(Wed, Oct 15 2025, 08:45 - 10:45)

Splinter room for Oceanography (Auditorium)

08:45 - 08:50:

[Introduction of the LR SWOT Data and Ocean CalVal session](#)

Alejandro Bohé (CNES, France), Curtis Chen (JPL, USA)

08:50 - 09:00:

[Impacts of FPGA Reconfigurations on Data Availability Over Polar Regions](#)

Albert Chen (JPL), Curtis Chen (JPL, USA), Alejandro Bohé (CNES, France)

09:00 - 09:10:

[Phase unwrapping over ice sheets](#)

Albert Chen (JPL), Curtis Chen (JPL, USA), Alejandro Bohé (CNES, France)

09:10 - 09:20:

[Doppler centroid jumps, potential performance improvement near coasts](#)

Albert Chen (JPL), Alex Fore (JPL), Curtis Chen (JPL, USA), Alejandro Bohé (CNES, France)

09:20 - 09:30:

[Improving the rain, ice and xcal flags](#)

Mathias Raynal (CNES, France)

09:30 - 09:40:

[Status on KaRIn's wind speed estimates](#)

Alejandro Bohé (CNES, France), Bryan Stiles (JPL, USA)

09:40 - 09:55:

[Refining KaRIn's SWH estimates \(open ocean and coastal\)](#)

Alejandro Bohé (CNES, France)

sea state bias

09:55 - 10:15:

[Sea State Bias: current work towards improving the model](#)

Alejandro Bohé (CNES, France)

10:15 - 10:30:

[Sea State Bias: using KaRIn's wind speed and SWH estimates as inputs to the correction](#)

Beatriz Molero (CLS, France)

10:30 - 10:45:

[Validation and calibration of the 2km x 2km mitigation Doppler](#)

Pierre Dubois (CLS, France)

Oceanography: LR SWOT Data and Ocean CalVal

Session chairs: Alejandro Bohé, Curtis Chen

(Wed, Oct 15 2025, 08:45 - 10:45)

Splinter room for Oceanography (Auditorium)

08:45 - 08:50:

[Introduction of the LR SWOT Data and Ocean CalVal session](#)

Alejandro Bohé (CNES, France), Curtis Chen (JPL, USA)

08:50 - 09:00:

[Impacts of FPGA Reconfigurations on Data Availability Over Polar Regions](#)

Albert Chen (JPL), Curtis Chen (JPL, USA), Alejandro Bohé (CNES, France)

09:00 - 09:10:

[Phase unwrapping over ice sheets](#)

Albert Chen (JPL), Curtis Chen (JPL, USA), Alejandro Bohé (CNES, France)

09:10 - 09:20:

[Doppler centroid jumps, potential performance improvement near coasts](#)

Albert Chen (JPL), Alex Fore (JPL), Curtis Chen (JPL, USA), Alejandro Bohé (CNES, France)

09:20 - 09:30:

[Improving the rain, ice and xcal flags](#)

Mathias Raynal (CNES, France)

09:30 - 09:40:

[Status on KaRIn's wind speed estimates](#)

Alejandro Bohé (CNES, France), Bryan Stiles (JPL, USA)

09:40 - 09:55:

[Refining KaRIn's SWH estimates \(open ocean and coastal\)](#)

Alejandro Bohé (CNES, France)

09:55 - 10:15:

[Sea State Bias: current work towards improving the model](#)

Alejandro Bohé (CNES, France)

10:15 - 10:30:

[Sea State Bias: using KaRIn's wind speed and SWH estimates as inputs to the correction](#)

Beatriz Molero (CLS, France)

10:30 - 10:45:

[Validation and calibration of the 2km x 2km mitigation Doppler](#)

Pierre Dubois (CLS, France)

Doppler

Oceanography: LR SWOT Data and Ocean CalVal

Session chairs: Alejandro Bohé, Curtis Chen
(Wed, Oct 15 2025, 08:45 - 10:45)

Splinter room for Oceanography (Auditorium)

08:45 - 08:50:

[Introduction of the LR SWOT Data and Ocean CalVal session](#)

Alejandro Bohé (CNES, France), Curtis Chen (JPL, USA)

08:50 - 09:00:

[Impacts of FPGA Reconfigurations on Data Availability Over Polar Regions](#)

Albert Chen (JPL), Curtis Chen (JPL, USA), Alejandro Bohé (CNES, France)

09:00 - 09:10:

[Phase unwrapping over ice sheets](#)

Albert Chen (JPL), Curtis Chen (JPL, USA), Alejandro Bohé (CNES, France)

09:10 - 09:20:

[Doppler centroid jumps, potential performance improvement near coasts](#)

Albert Chen (JPL), Alex Fore (JPL), Curtis Chen (JPL, USA), Alejandro Bohé (CNES, France)

09:20 - 09:30:

[Improving the rain, ice and xcal flags](#)

Mathias Raynal (CNES, France)

09:30 - 09:40:

[Status on KaRIn's wind speed estimates](#)

Alejandro Bohé (CNES, France), Bryan Stiles (JPL, USA)

09:40 - 09:55:

[Refining KaRIn's SWH estimates \(open ocean and coastal\)](#)

Alejandro Bohé (CNES, France)

09:40 - 09:55:

[Refining KaRIn's SWH estimates \(open ocean and coastal\)](#)

Alejandro Bohé (CNES, France)

09:55 - 10:15:

[Sea State Bias: current work towards improving the model](#)

Alejandro Bohé (CNES, France)

10:15 - 10:30:

[Sea State Bias: using KaRIn's wind speed and SWH estimates as inputs to the correction](#)

Beatriz Molero (CLS, France)

10:30 - 10:45:

[Validation and calibration of the 2km x 2km mitigation Doppler](#)

Pierre Dubois (CLS, France)