

# NEW LETTER

## SAR INTER-COMPARISON EXPERIMENT

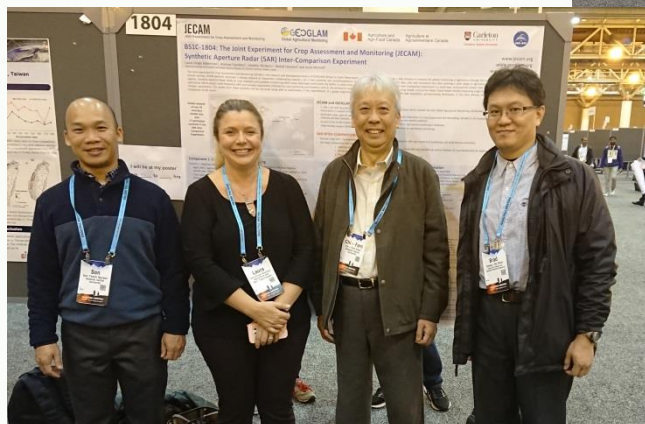
**AGU 2017** in New Orleans was a great success. Laura introduced the Experiment in the GEOGLAM poster session and was able to meet with several JECAM partners. Heather made some good connections at the **APEC Meeting** in Santiago, Chile with some potential new partners.



AGU 2017 – New Orleans Convention Centre – over 23,000 Geoscientists attended!



Meeting with JECAM USA-Georgia (from left) Laura and Alisa Coffin.



Meeting with JECAM Taiwan (from left) Son Nguyen-Thanh, Laura, Professor Chi-Farn Chen and Brad Chen.

### EVENTS

#### Past

#### September 2017

SPIE. Remote Sensing  
Warsaw, Poland  
Mehdi Presented

#### December 2017

APEC Meeting 2017  
Santiago, Chile,  
Heather attended

AGU 2017, New Orleans  
Laura attended

#### Upcoming

#### January 2018

1<sup>st</sup> Annual Report to CSA and  
JECAM Partners

Launch of Activity 2 for both  
Components

#### February 2018

Emerging Technologies and  
Methods in Earth Observation for  
Agricultural Monitoring  
(A joint workshop sponsored by  
AAFC, USDA, EOFSAC,  
NATCAS)  
Heather, Laura, and Andrew  
attending

### EXPERIMENT PROCESSING

AAFC Crop Inventory operational processing currently utilizes a Gamma Map speckle filter with a window size of 7 x 7. Because of the wide variety of field sizes across the JECAM partner sites, SAR speckle filter testing on filter type and window size in relation to field size is in progress.

We selected three test sites and three generalized crops types of corn, soybean, wheat/no wheat/double crop. Field sizes range from small (~3 ha) to large (~60 ha).

Canada Casselman:	small field size (~3 ha)
Argentina:	medium field size (~25ha)
USA Iowa:	large field size (~30-60 ha)

Filters: Gamma Map (current operational filter), Multi-Temporal (Quegan et al., 2000) and Touzi (Touzi, 2002) with multiple window sizes and passes. Initial results indicate there may be a slight importance to window size in relation to field size.

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