Title: Pantanal

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<u>Product Team (confirmed members only):</u>
. Kevin Telmer (Uvic, Canada)
.Eliel Souza (Brazilian Institute for Environmental Research, IBAMA)
<u>Agreement status:</u> Ready to sign
<u>Preferred agreement type (individual/institutional):</u> Individual

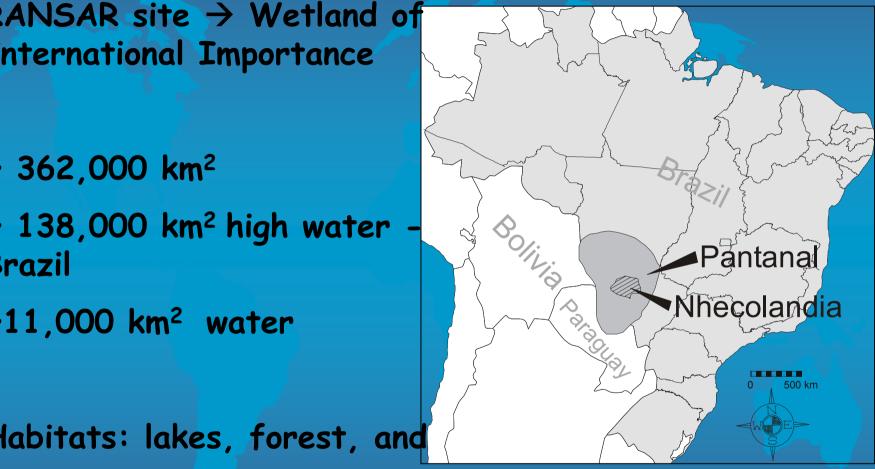
Project objective(s):

To produce multi-temporal maps of the spatial distribution of open water, aquatic vegetation, forest (and flooded), savanna (and flooded), and dry areas of the Pantanal. Associate estimated areas to seasonal methane emissions.

•To use PALSAR mosaic to map fresh and brackish lakes (geochemistry) of the entire Pantanal

ANSAR site -> Wetland of nternational Importance

- 362,000 km²
- 138,000 km² high water razil
- 11,000 km² water



quatic vegetation



Wildlife







Human occupation

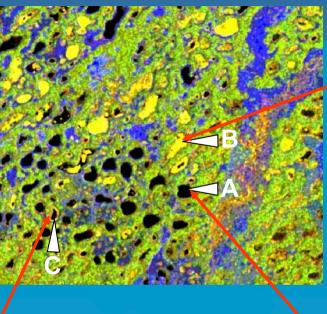


Hydrovia Paraguay-Parana???





resh soft DS<0.01g/kg





Brackish 10>TDS>1 g/kg



Fresh hard 1>TDS>0.01g/kg





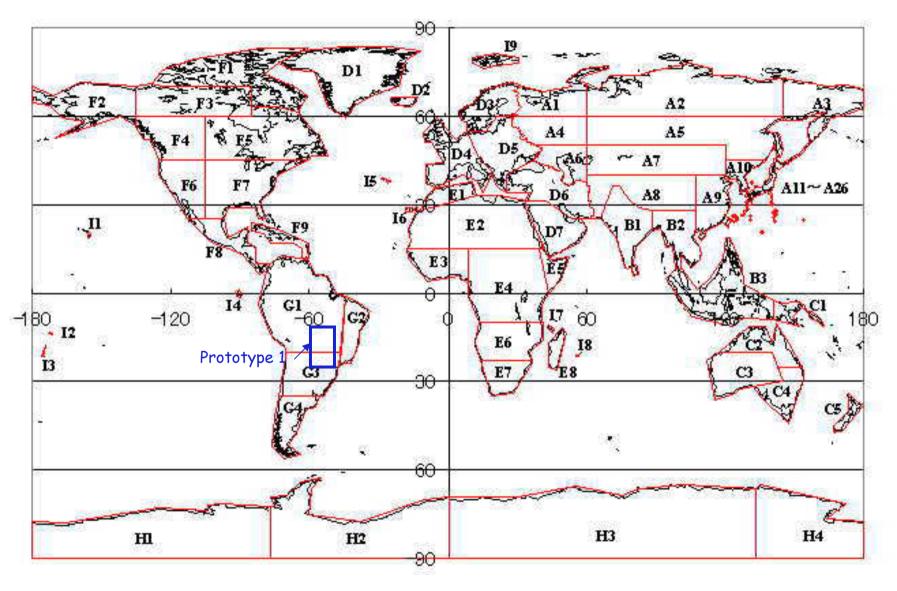
Pantanal

Prototype Area 1: Pantanal Corresponding observation plan polygon(s): G1 (part); G3 (part) No. PALSAR paths/coverage: ~10 paths fine resolution PALSAR request (Year 1-3): ~90 passes (3 annual coverages @30° and HH+HV; 3 annual coverages @45° and HH+HV) Input data (EORC products): PALSAR path images (Sigma-0, ortho-rectified, fine resolution) Ancillary data requests: ~ 30 JERS-1 SAR path images 1992-1997

Prototype Area 1: Pantanal Corresponding observation plan polygon(s): G1 (part); G3 (part) No. PALSAR paths/coverage: ? PALSAR request (Year 1-3): 3 full coverages Input data (EORC products): PALSAR image mosaics (Sigma-0, SRTM corr., 50m)

Ancillary data requests: JERS-1 SAR (GRFM) mosaics from mid-1990's

Pantanal



Location of Prototype Areas

Pantanal

K&C Product Deliverables (before end of Year 3):

• Maps of lake distribution, area, number and associated geochemistry.

 Seasonal maps of the flooded areas of the Pantanal and seasonal methane estimates.

Product methodology and validation report

<u>Prospects for Years 4-6 (assuming agreement extension)</u> Monitoring program for the Pantanal (2007-2008); (2008-2009); (2009-2010)