

Introduction to PBSsatellite

Rowan Haigh and Nicholas Boers

March 23, 2016

1 What is PBSsatellite?

PBSsatellite is a collaborative effort between the Pacific Biological Station (PBS) and MacEwan University to design software that simplifies the extraction and statistical analysis of gridded satellite data. This software uses **PBSmapping**, an existing R software package, to produce plots. Additionally, users are able to produce their own functionality and data interpretation algorithms and incorporate these functions into the package's analysis methods. This provides users with a platform that simplifies the complex problem of satellite data analysis and visualization while providing the ability for personal research and method integration.

2 What is PBS?

The initials **PBS** refer to the Pacific Biological Station, a major fisheries laboratory operated by Fisheries and Oceans Canada on the Pacific coast in Nanaimo, British Columbia, Canada.

3 What is MacEwan University?

MacEwan University is a post-secondary educational institution located in Edmonton, Alberta, Canada. Dr. Nicholas Boers is an Assistant Professor in the Department of Computer Science within the Faculty of Arts & Science. His current research focuses on wireless sensor network development for urban environments. Specifically, he has been looking at techniques for classifying and avoiding interference within these networks.

4 Where is the User's Guide?

The R library directory `.../R-3.2.4/library/PBSsatellite/doc` includes a User's Guide to the package contents and functions.