

NOTICE OF PUBLICATION

AQUACULTURE COLLABORATIVE RESEARCH SUPPORT PROGRAM



RESEARCH REPORTS

Sustainable Aquaculture for a Secure Future

Title: Monitoring Water Quality for Tropical Freshwater Fisheries and Aquaculture: A Review of Aircraft and Satellite Imagery Applications

Author(s): Hillary S. Eгна
Ponds Dynamics/ Aquaculture Collaborative Research Support Program and Department of Geosciences
Resource Geography Program
Oregon State University
Corvallis, Oregon, USA

Date: 28 February 2006 Publication Number: CRSP Research Report 94-A4

The CRSP will not be distributing this publication. Copies may be obtained by writing to the authors.

Abstract: Water quality in tropical fish ponds is generally evaluated without the assistance of remote sensing because of cost, cloud cover, and other constraints, but certain parameters such as suspended solid concentrations, colour, chlorophyll and temperature can effectively be monitored by aerial photography and satellite imagery. This paper reviews applications of remote sensing to tropical inland fisheries and aquaculture and includes applications from related disciplines. A brief assessment of new platforms and sensors is also presented. Remote sensing images may help to inform researchers and planners about water quality trends that are occurring over a broad area in which fisheries and aquaculture activities occur. However, the operational use of remote sensing in aquaculture remains largely experimental.

This abstract is excerpted from the original paper, which was in *Fisheries Management and Ecology*, 1(3):165-178.

CRSP RESEARCH REPORTS are published as occasional papers by the Program Management Office, Aquaculture Collaborative Research Support Program, Oregon State University, 418 Snell Hall, Corvallis, Oregon 97331-1643 USA. The Aquaculture CRSP is supported by the US Agency for International Development under CRSP Grant No.: LAG-G-00-96-90015-00. See the website at <pdacrsp.orest.edu>.