Monitor and Map Vegetation Dynamics

User Manual
(Annotated Outline)

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Document Change History

- Version 1.0, March 2, 2001 4:00p EST

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Introduction

<Initial General statement of purpose>

The purpose of this document is to provide the user with instructions for using the Vegetation Mapping System (VMS). This includes its components IPWTool3, Discrete Fourier Transform (DFT), and the Polar Graphing Tool (PGT). Additionally, this document is intended to serve as a reference for VMS.

It is assumed that the reader already has basic knowledge of the UNIX and the X-Windows operating environment. Furthermore, it is assumed that the reader has knowledge of image analysis in the field of Geographic Information Sciences (GIS).

<Section for Document Conventions>

ex. user input in italics

system prompts in bold

Courier New font for system output

<Reader Starting Points>

ex. novice user needs to read all sections

user already familiar with IPWTool needs to read sections X,Y,Z, and can skip sections I,J

user already familiar with old dft executable should read UPDATES under DFT section

everyone should read sections on new DFT and PGT programs

<Related Documents>

- Contract II
Quick Start

<Minimal guidelines to get going>

• need a running X-Windows session

• need an IPW image
  o raw satellite image

• call IPWTool3 from the shell

• select IPW image to open

• perform operations as needed
  graphing
  fourier analysis etc….

System Overview

<High-level diagrams>

• High level system diagrams consisting of the four main components of the VMS
  o PGT
  o DFT
  o IPWTool3
  o GUI

• System environment:
  o SunOS 5.7
- sh/csh compatible scripting shell
  - GNU GCC 2.95.2
  - Tcl/Tk 8.3.2
    - Blt 2.4u
  - X11 Windowing Environment Release 6.3

**Tutorial**

*<Included with sections below will be screen shots>*

Assuming user is already running an X-Windows session, we'll cover:

- Starting IPWTool3
- Selecting functions within IPWTool3
- Loading an IPW image
- Selecting Regions of the IPW image
- Calling the DFT for that image
- Calling PGT from the GUI
- Selecting functions within PGT

**Reference**

*A hierarchial decomposition of your product>*

- Unable to address this section at present.

*<readers view of model of the complete system with 4 components>*
Appendices

<Quick Reference Card (could additionally cut out and laminate)>

<System Requirements>

<installation>

<troubleshooting>

<maintenance procedures and issues>

<contact information (your names, client name, current emails, etc..)