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**Joint Polar Satellite System (JPSS)  
Algorithm Specification Volume III:  
Operational Algorithm Description (OAD)  
for the Geolocation and Spacecraft  
Orientation**



**Goddard Space Flight Center  
Greenbelt, Maryland**

National Aeronautics and  
Space Administration

**Joint Polar Satellite System (JPSS) Algorithm Specification  
Volume III:  
Operational Algorithm Description (OAD) for the  
Geolocation and Spacecraft Orientation  
JPSS Review/Approval Page**

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**Goddard Space Flight Center  
Greenbelt, Maryland**

## Preface

This document is under JPSS Algorithm ERB configuration control. Once this document is approved, JPSS approved changes are handled in accordance with Class I and Class II change control requirements as described in the JPSS Configuration Management Procedures, and changes to this document shall be made by complete revision.

Any questions should be addressed to:

JPSS Configuration Management Office  
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## **1 Introduction**

### **1.1 Scope**

The scope of this document is to inform the user of Joint Polar Satellite System (JPSS) Algorithm Specification Volume III: Operational Algorithm Description (OAD) for the Geolocation and Spacecraft Orientation of the available and applicable Operational Algorithm Description(s) (OAD) or sections contained within an OAD (in the case of multiple algorithms contained within one OAD).

#### **1.1.1 Details of scope**

This document is a pointer to independently established OADs, available on the JPSS MIS server. In the case of multiple algorithms contained within one OAD, the appropriate section will be detailed in Section 3.0.

### **1.2 Purpose**

The Joint Polar Satellite System (JPSS) Algorithm Specification Volume III: Operational Algorithm Description (OAD) for the Geolocation and Spacecraft Orientation contains the reference(s) to applicable OAD(s).

### **1.3 Organization**

Section 1 provides information regarding the scope, purpose, and organization of this document.

Section 2 lists parent documents and related documents that were used as sources of information for this document or that provide additional background information to aid understanding of the interface implementations.

Section 3 provides the titles of applicable OAD(s).

## 2 Related Documentation

The latest versions of all document(s) below should be used. The latest JPSS document(s) can be obtained from URL: [https://jpssmis.gsfc.nasa.gov/frontmenu\\_dsp.cfm](https://jpssmis.gsfc.nasa.gov/frontmenu_dsp.cfm). JPSS document(s) have a document number starting with 474.

### 2.1 Parent Documents

N/A.

### 2.2 Applicable Documents

The following document(s) is (are) the Applicable Document(s) from which this document has been derived. Any modification to an Applicable Document will be reviewed to identify the impact upon this document. In the event of conflict between an Applicable Document and the content of this document, the JPSS Algorithm ERB has the final authority for conflict resolution.

Document Number	Title
474-00001-01	Joint Polar Satellite System (JPSS) Common Data Format Control Book – External Volume I - Overview
474-00001-05	Joint Polar Satellite System (JPSS) Common Data Format Control Book – External (CDFCB-X) Volume V – Metadata Formats

### 2.3 Information Document

Document Number	Title
470-00041	Joint Polar Satellite System (JPSS) Program Lexicon

### **3 Related OAD(s)**

The following OADs are related to Joint Polar Satellite System (JPSS) Algorithm Specification Volume III: Operational Algorithm Description (OAD) for the Geolocation and Spacecraft Orientation:

474-00091\_Joint Polar Satellite System (JPSS) Operational Algorithm Description (OAD)  
Document for Common Geolocation Software

474-00097\_Joint Polar Satellite System (JPSS) Operational Algorithm Description (OAD)  
Document for Common Adjacency Software