

### CONTENTS

<u>Section</u>	<u>Page</u>
<b>1 INTRODUCTION.....</b>	<b>1-1</b>
1.1 PURPOSE.....	1-1
1.2 SCOPE AND APPLICABILITY.....	1-1
1.3 CONVENTIONS AND DEFINITIONS.....	1-1
1.4 STRUCTURE OF THIS DOCUMENT.....	1-2
1.5 REFERENCES.....	1-2
<b>2 OVERVIEW.....</b>	<b>2-1</b>
2.1 ORBIT DATA MESSAGE TYPES.....	2-1
2.2 ORBIT PARAMETER MESSAGE (OPM).....	2-1
2.3 ORBIT EPHEMERIS MESSAGE (OEM).....	2-1
2.4 EXCHANGE OF MULTIPLE MESSAGES.....	2-2
2.5 DEFINITIONS.....	2-2
<b>3 ORBIT PARAMETER MESSAGE (OPM).....</b>	<b>3-1</b>
3.1 OVERVIEW.....	3-1
3.2 OPM CONTENT.....	3-1
3.3 OPM SYNTAX.....	3-7
3.4 OPM EXAMPLES.....	3-11
<b>4 ORBIT EPHEMERIS MESSAGE (OEM).....</b>	<b>4-1</b>
4.1 OVERVIEW.....	4-1
4.2 OEM CONTENT.....	4-1
4.3 OEM SYNTAX.....	4-6
4.4 OEM EXAMPLE.....	4-11
<b>ANNEX A RATIONALE FOR ORBIT DATA MESSAGES.....</b>	<b>A-1</b>
<b>ANNEX B ITEMS FOR AN INTERFACE CONTROL DOCUMENT.....</b>	<b>B-5</b>
<b>ANNEX C ABBREVIATIONS AND ACRONYMS.....</b>	<b>C-6</b>

## **CONTENTS (continued)**

<b>Figure</b>	<b>Page</b>
3-1 OPM File Example Using Comments to Denote Updates .....	3-11
3-2 OPM File Example with Optional Keplerian Elements and Two Maneuvers .....	3-12
4-1 OEM Example .....	4-11

<b>Table</b>	<b>Page</b>
3-1 OPM Header .....	3-2
3-2 OPM Metadata .....	3-3
3-3 OPM Data .....	3-5
4-1 OEM File Layout Specifications .....	4-2
4-2 OEM Header .....	4-3
4-3 OEM Metadata .....	4-4
A-1 Primary Requirements .....	A-2
A-2 Heritage Requirements .....	A-3
A-3 Desirable Characteristics .....	A-3
A-4 Applicability of the Criteria to Orbit Data Codes .....	A-4
A-5 Services Available with Orbit Data Codes .....	A-4