

ISO/TS 19159-4:2022-11 (E)

Geographic information - Calibration and validation of remote sensing imagery sensors and data - Part 4: Space-borne passive microwave radiometers

Contents	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols, abbreviated terms and conventions	12
4.1 Abbreviated terms	12
4.2 Symbols	12
4.3 Conventions	15
5 Conformance	15
6 Notation	16
6.1 UML notation	16
6.2 Identifiers	16
7 General microwave radiometer sensor and data calibration and validation model	16
7.1 Introduction	16
7.2 Top-level model	18
7.3 Sensor calibration	19
7.3.1 General description	19
7.3.2 Geometric position	19
7.3.3 TA calibration	20
7.3.4 Antenna pattern calibration	22
7.4 Auxiliary data	23
7.5 TB calibration/validation	24
7.5.1 TB calibration/validation class diagram	24
7.5.2 TB calibration/validation methods	26
7.5.3 TB true value class diagram	27
7.6 Satellite microwave radiometer	29
Annex A (normative) Abstract test suite	30
Annex B (normative) Data dictionary	33
Annex C (informative) XML schema implementation	47
Annex D (informative) Formula for specification calculation	48
Bibliography	50