OWS-8 Review of the WXXS exchange schemas

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Preface

This document is a deliverable for the OGC Web Services 8 (OWS-8) testbed activity. OWS testbeds are part of OGC's Interoperability Program, a global, hands-on and collaborative prototyping program designed to rapidly develop, test and deliver proven candidate standards or revisions to existing standards into OGC's Standards Program, where they are formalized for public release. In OGC's Interoperability Initiatives, international teams of technology providers work together to solve specific geoprocessing interoperability problems posed by the Initiative's sponsoring organizations. OGC Interoperability Initiatives include test beds, pilot projects, interoperability experiments and interoperability support services - all designed to encourage rapid development, testing, validation and adoption of OGC standards.

The OWS-8 sponsors are organizations seeking open standards for their interoperability requirements. After analyzing their requirements, the OGC Interoperability Team recommend to the sponsors that the content of the OWS-8 initiative be organized around the following threads:

* Observation Fusion
* Geosynchronization (Gsync)
* Cross-Community Interoperability (CCI)
* Aviation

More information about the OWS-8 testbed can be found at: http://www.opengeospatial.org/standards/requests/74

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Review of the WXXS exchange schemas

Purpose
This aim of this review is to assess the WXXS 1.1.1 exchange schemas for compliance with ISO 19136:2007 (GML 3.2.1). This international standard stipulates rules and recommendations regarding the construction of GML application schemas; these constraints are documented in the following clauses:

(a) Clause 7.1: GML model and syntax
(b) Clause 21: Rules for GML application schemas
(c) Annex A.1: Abstract test suite for GML application schemas

Manual Review
The high-level schema dependencies are illustrated in the following package diagram. Only dependencies that span namespace boundaries (i.e., imports) are shown.
The WXXS schemas were first scanned using the IBM XML Schema Quality Checker at its highest cost level (10). No problems were detected in the WXXS schemas themselves, although several errors were identified in imported schemas (e.g., valueObjects.xsd in the GML 3.2.1 set\(^1\)).

No critical compliance issues were uncovered. Non-critical issues are presented roughly in decreasing order of severity in each of the following sections.

**A. General**

1. No version information is provided for any schemas. **Suggested Fix:** Add the schema/@version attribute to at least the root schema in each namespace.

2. Resolution of relative XLink references. The XLink 1.0 specification (also XLink 1.1) states that “If the URI reference is relative, its absolute version must be computed by the method of [XML Base] before use.”

   The xml:base attribute is not declared in any WXXS schema; as a consequence, the resolution of relative XLink references—in particular those that are not same-document references—may be problematic in some cases (e.g. when data are retrieved via WFS).

   **Suggested fix:** Add the following attribute declaration to the AbstractWxFeatureType definition, along with a suitable import statement (in wxBase.xsd and the root schema). Also add it to all feature property types that have XLink attributes in order to allow target-specific overrides.

   ```xml
   <import namespace="http://www.w3.org/XML/1998/namespace"
           schemaLocation="http://www.w3.org/2001/xml.xsd"/>
   <attribute ref="xml:base"/>
   ```

   **Example** (reference to remote feature instance)

   ```xml
   <wx:Forecast xml:base="http://resolver.example.org/wx/">
     <wx:relatedObservation xlink:href="OBS_1234567890" />
   </wx:Forecast>
   ```

**B. Generic Weather Domain (WX)**

1. Nominally abstract features in wxCoverage.xsd can be instantiated: `wx:AbstractCoverageDomain, wx:AbstractCoverage`. **Suggested fix:** Add `abstract="true"` to these element declarations, or rename them if they may appear in instance documents.

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\(^1\) These errors arise because the effective block value of the xs:anyType definition (the ‘Ur-Type’) is “#all”, thus disallowing all type substitutions.

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2. GML naming violation (wxPhenomBase): VerticallyBoundedPhenomenon. This element declaration does not adhere to the naming convention for abstract elements. **Fix:** Change name to “AbstractVerticallyBoundedPhenomenon”.

3. GML naming violation (wxCoverage.xsd): domainSetPropertyType. Property type name is not UpperCamelCase. **Fix:** Rename to “DomainSetPropertyType”.

4. Nothing can substitute for *wx:AbstractMeasure* (measures.xsd): Speed, Percentage, Temperature, Distance, Angle, Luminance, Pressure all have corresponding subtypes but are not placed in a substitution group. **Fix:** Add substitutionGroup="wx:AbstractMeasure" to these element declarations.

5. *wx:AbstractWxFeature* may be related to any GML feature. If this is not the intent, change type of the associatedFeature property from gml:FeaturePropertyType to AbstractWxFeaturePropertyType.

6. WeatherPhenomenonPropertyType (in wxPhenomBase) is defined using the GML property type pattern. However, *wx:WeatherPhenomenon* does not represent a GML object but simple properties that can never be referenced in the usual manner (i.e. using a shorthand pointer\(^2\)). **Suggested fix:** Remove gml:AssociationAttributeGroup and gml:OwnershipAttributeGroup from the type definition.

7. WeatherModifierPropertyType (in wxDataTypes) is defined using the GML property type pattern. However, *wx:WeatherModifier* does not represent a GML object but simple properties that can never be referenced in the usual manner. **Suggested fix:** Remove gml:AssociationAttributeGroup and gml:OwnershipAttributeGroup from the type definition.

8. AbstractMeasurePropertyType (in measures.xsd) is defined using the GML property type pattern. However, *wx:AbstractMeasure* is not a GML object and can never be referenced in the usual manner. **Suggested fix:** Remove gml:AssociationAttributeGroup and gml:OwnershipAttributeGroup from the type definition OR add a suitable schema-determined ID. **NOTE:** This also applies to all property types defined in measures.xsd and wxMeasures.xsd.

9. Duplicated (anonymous) type definitions in wxForecast.xsd: forecastAnalysisTime, validTime (plus 3 other occurrences in other WX schemas). **Suggested fix:** Replace these with a global type definition (e.g. *wx:TimeObjectPropertyType*):

   ```xml
   <complexType name="TimeObjectPropertyType">
     <sequence>
       <element ref="gml:AbstractTimeObject"/>
     </sequence>
   </complexType>
   ```

---

\(^2\) Alternative XPointer schemes might be used in some contexts.

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10. `wx:Forecast/relatedObservation` may refer to *any* GML feature, which may not be desirable (see B.3).

11. Violation of GML naming convention (`wxGeometry.xsd`). Property type name is not in UpperCamelCase notation: `geometryPropertyType`. **Fix**: Rename to “GeometryPropertyType”.

12. Observations and Measurements 1.0 is deprecated. Consider upgrading to the current v2.0 release ([OGC 10-025r1](#)), which uses GML 3.2.1 so an “adapter” is not required. **Note**: `om1:Observation` has been renamed to `om2:OM_Observation`.

13. A circular dependency exists between the `wxBase` and `wxPhenomBase` schemas. While this is not a critical shortcoming, these are best avoided as they can pose complications for profilers.

**Suggested fix**: Move `ExtentOf`, `ExtentOfPropertyType`, `ExtentOfUnionSemantics` from `wxBase` to `wxPhenomBase`; then `wxBase` includes `wxPhenomBase`. With this change, the (include) dependencies among the WX schemas are as shown below.
14. Spurious import in wxForecast: No dependency on swe.xsd (WXXS does not directly use any SWE elements at all)

15. Spurious import statement in units.xsd: no dependency on gml.xsd

16. Spurious include in wxMeasures.xsd: units.xsd already included by measures.xsd

17. Spurious include in wxDataTypes.xsd: no dependency on wxPhenomBase.xsd.

18. Spurious import in wxCoverage.xsd: No dependency on cv.xsd

19. Spurious include in wxForecast: No dependency on wxProcess.xsd

20. Spurious include in wxObservation: No dependency on wxProcess.xsd

C. Aviation Weather Domain (AVWX)

1. Incorrect referent identified for SpecialAirReport/reportedLocation (in icaoAnnex3SpecialReport.xsd). This property is a link reference of type gml:ReferenceType. However, the expected value (gml:targetElement) is gml:posList, which is not a GML object. **Suggested fix:** Change the property type or its expected value.

2. The element declaration “isDefinedFor” (in avwxAreaOfInterestWx.xsd) has an anonymous type definition that is not consistent with the Schematron assertions. **Suggested fix:** The existing type definition wx:AbstractWxFeaturePropertyType is more appropriate in this context.

3. Redundant name property in avwx:TropicalCyclone. The type inherits gml:name (0..*) from gml:AbstractGMLType. **Suggested fix:** Remove it.

   **Note:** This also applies to the following types defined in avwxFeatures.xsd: MeteorologicalWatchOfficeType, AirspaceType, AerodromeType, SeaType, VolcanoType, VolcanicAshAdvisoryCentreType, and TropicalCycloneAdvisoryCentreType.

4. GML naming violation: runwayDesignator (avwxFeatures.xsd). GML object type names should be in UpperCamelCase notation. **Fix:** Rename to “RunwayDesignator” and update related type definitions accordingly.

   **Note:** The Runway/runwayDesignator property has type xsd:string, not RunwayDesignatorPropertyType as one might expect. Should it?

5. GML naming violation: TREND (icaoAnnex3Base.xsd). Feature type names should be in UpperCamelCase notation. **Fix:** Rename feature type as “Trend” or expand acronym if appropriate—also update all related type definitions accordingly.

6. GML naming violations: AIREP, AMDAR, PIREP, UrgentPIREP, MDCR (icaoAerialReport.xsd). Feature type names should be in UpperCamelCase notation. **Fix:** Rename feature type (e.g. “Airep”, “Amdar”, “Pirep”, “UrgentPirep”, “Mdcr”) or expand acronym if appropriate—also update all related type definitions accordingly.
7. GML naming violations: METAR, METARSpeci (icaoSurfaceReport.xsd). Feature type names should be in UpperCamelCase notation. **Fix:** Rename feature type (e.g. “Metar”, “MetarSpeci”) or expand the acronym if appropriate—also update all related type definitions accordingly.

8. GML naming violations: AIRMET, G-AIRMET, CCFP, SIGMET, G-SIGMET (icaoAreaReport.xsd). Feature type names should be in UpperCamelCase notation. **Fix:** Rename feature types and update all related type definitions accordingly.

9. GML naming violations: TAF (icaoSurfaceForecastReport.xsd). Feature type names should be in UpperCamelCase notation. **Fix:** Rename feature type or expand acronym if appropriate (e.g. “TerminalAreaForecast”); update all related type definitions accordingly.

10. Unfounded GML property types defined in avwxMeasures. The referents are neither GML objects nor possess schema-determined identifiers (see B.6). **Fix:** remove GML attribute groups.

11. Profligate use of anonymous property types in icaoAnnex3VolcanicActivity.xsd. **Suggested fix:** Reuse existing property type definitions as indicated below:
   - avwx:VolcanicAshAdvisoryCentrePropertyType
   - wx:ForecastPropertyType
   - om:ObservationPropertyType

12. Anonymous property types in icaoAnnex3Windshear.xsd. **Suggested fix:** Reuse existing property type definitions:
   - avwx:AerodromePropertyType
   - avwx:RunwayPropertyType

13. Anonymous property type (airspaceAreaForecast) in icaoAreaReport.xsd. **Suggested fix:** Reuse existing property type definition: wx:ForecastPropertyType.

14. Anonymous property types in icaoSurfaceForecastReport.xsd. **Suggested fix:** Reuse existing property type definitions:
   - wx:ForecastPropertyType
   - avwx:AerodromePropertyType

15. TropicalCycloneAdvisory/number property (icaoAnnex3TropicalCyclone) allows negative integers. **Suggested fix:** Change type from xsd:integer to xsd:positiveInteger.

16. VolcanicActivity/volcano property (in avwxPhenomVolcanic.xsd) has an anonymous type definition that resembles avwx:VolcanoPropertyType. **Suggested fix:** Reuse the existing property type definition.

17. Redundant description property on VolcanicActivityType in avwxPhenomVolcanic.xsd. The type inherits gml:description from gml:AbstractGMLType. **Suggested fix:** Remove it.

18. Spurious import in avwx.xsd: there is no apparent dependency on swe.xsd in any AVWX schemas. Are SWE schema components used anywhere? None are
mentioned in the WXXM 1.1 Primer document. **Suggested fix:** Remove the import statement.

19. Spurious import of gml.xsd in avwxDataTypes.xsd.

20. VolcanicActivityReport (icaoAnnex3VolcanicActivity.xsd) makes no use of the schema components in avwxPhenomVolcanic.xsd. Is it expected that these observations will refer to the relevant phenomena (avwx:VolcanicActivity, avwx:VolcanicAshCloud) via om:featureOfInterest? If so, adding suitable Schematron assertions would be appropriate.

21. Several spurious include dependencies appear. The actual schema dependencies are as shown in the following package diagram. Note the circular dependency involving the avwxAreaOfInterestWx, avwxPhenomVolcanic, and avwxFeatures schemas.
Automated Scan

The Galdos GML SDK has a GML validation feature which checks the following criteria for compliance:

1. Object property rule – no object element (i.e. an element whose type ultimately derives from gml:AbstractGMLType) shall be a child of another object element
2. UpperCamelCase naming convention for Object element names
3. UpperCamelCase naming convention for complex type names
4. lowerCamelCase naming convention for property names
5. Type name suffix convention – ‘Type’ should be at the end of complex type name
6. Abstract element naming conventions – ‘Abstract’ should be at the beginning the element name

Results

Object Property Rule
<no violations found>

Abstract types whose name do not start with 'Abstract':
  □ VerticallyBoundedPhenomenonType

Complex types whose name do not end with 'Type':
<none found>

Complex types whose name do not start with a upper case character:
  □ domainSetPropertyType
  □ geometryPropertyType

Abstract elements whose name do not start with 'Abstract':
  □ VerticallyBoundedPhenomenon

Abstract objects whose name do not start with 'Abstract':
  □ VerticallyBoundedPhenomenon

Object elements whose names do not start with a upper case character:
<none found>

Abstract properties whose names do not start with 'abstract':
<none found>

Property elements whose names do not start with a lower case character:
<none found>

WXXS Features and Properties Checked by Automated Scan

feature name : AbstractFeatureCollection
  other complex property name: metaDataProperty
sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
geometry property name: location
other complex property name: featureMember
  sub-element: DynamicFeature
  sub-element: Observation
  sub-element: FeatureCollection
  sub-element: Volcano
  sub-element: HorizontalVisibility
  sub-element: RVR
  sub-element: SurfaceDeposit
  sub-element: Runway
  sub-element: RunwaySurfaceState
  sub-element: RunwayDirection
  sub-element: MeteorologicalWatchOffice
  sub-element: Aircraft
  sub-element: Airspace
  sub-element: TropicalCycloneAdvisoryCentre
  sub-element: Aerodrome
  sub-element: Sea
  sub-element: Route
  sub-element: VolcanicAshAdvisoryCentre
  sub-element: TREND
  sub-element: MovementDescription
  sub-element: WxCondition
  sub-element: FeatureCollection
  sub-element: AreaOfInterest
  sub-element: WxProcess
  sub-element: System
  sub-element: AbstractCoverageDomain
  sub-element: MultiPoint
  sub-element: AbstractCoverage
  sub-element: Observation
  sub-element: ObservationCollection
other complex property name: featureMembers
  sub-element: DynamicFeature
  sub-element: Observation
  sub-element: FeatureCollection
  sub-element: Volcano
  sub-element: HorizontalVisibility
sub-element: RVR
sub-element: SurfaceDeposit
sub-element: Runway
sub-element: RunwaySurfaceState
sub-element: RunwayDirection
sub-element: MeteorologicalWatchOffice
sub-element: Aircraft
sub-element: Airspace
sub-element: TropicalCycloneAdvisoryCentre
sub-element: Aerodrome
sub-element: Sea
sub-element: Route
sub-element: VolcanicAshAdvisoryCentre
sub-element: TREND
sub-element: MovementDescription
sub-element: WxCondition
sub-element: FeatureCollection
sub-element: AreaOfInterest
sub-element: WxProcess
sub-element: System
sub-element: AbstractCoverageDomain
sub-element: MultiPoint
sub-element: AbstractCoverage
sub-element: Observation
sub-element: ObservationCollection

feature name : FeatureCollection
other complex property name: metaDataProperty
sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
sub-element: Envelope
sub-element: Null

geometry property name : location
other complex property name: featureMember
sub-element: DynamicFeature
sub-element: Observation
sub-element: FeatureCollection
sub-element: Volcano
sub-element: HorizontalVisibility
sub-element: RVR
sub-element: SurfaceDeposit
sub-element: Runway
sub-element: RunwaySurfaceState
sub-element: RunwayDirection
sub-element: MeteorologicalWatchOffice
sub-element: Aircraft
sub-element: Airspace
sub-element: TropicalCycloneAdvisoryCentre
sub-element: Aerodrome
sub-element: Sea
sub-element: Route
sub-element: VolcanicAshAdvisoryCentre
sub-element: TREND
sub-element: MovementDescription
sub-element: WxCondition
sub-element: FeatureCollection
sub-element: AreaOfInterest
sub-element: WxProcess
sub-element: System
sub-element: AbstractCoverageDomain
sub-element: MultiPoint
sub-element: AbstractCoverage
sub-element: Observation
sub-element: ObservationCollection
other complex property name: featureMembers
sub-element: DynamicFeature
sub-element: Observation
sub-element: FeatureCollection
sub-element: Volcano
sub-element: HorizontalVisibility
sub-element: RVR
sub-element: SurfaceDeposit
sub-element: Runway
sub-element: RunwaySurfaceState
sub-element: RunwayDirection
sub-element: MeteorologicalWatchOffice
sub-element: Aircraft
sub-element: Airspace
sub-element: TropicalCycloneAdvisoryCentre
sub-element: Aerodrome
sub-element: Sea
sub-element: Route
sub-element: VolcanicAshAdvisoryCentre
sub-element: TREND
sub-element: MovementDescription
sub-element: WxCondition
sub-element: FeatureCollection
sub-element: AreaOfInterest
sub-element: WxProcess
sub-element: System
sub-element: AbstractCoverageDomain
sub-element: MultiPoint
sub-element: AbstractCoverage
sub-element: Observation
sub-element: ObservationCollection

feature name: ProcessChain
  simple property name: description
  simple property name: name
  other complex property name: keywords
    sub-element: KeywordList
  other complex property name: identification
    sub-element: IdentifierList
  other complex property name: classification
    sub-element: ClassifierList
  other complex property name: validTime
    sub-element: TimeInstant
    sub-element: TimePeriod
  other complex property name: securityConstraint
    sub-element: Security
  other complex property name: legalConstraint
    sub-element: Rights
  other complex property name: characteristics
    sub-element: DataRecord
    sub-element: SimpleDataRecord
    sub-element: ConditionalData
    sub-element: ConditionalValue
    sub-element: Position
    sub-element: Vector
    sub-element: GeoLocationArea
    sub-element: Envelope
    sub-element: NormalizedCurve
  other complex property name: capabilities
    sub-element: DataRecord
    sub-element: SimpleDataRecord
    sub-element: ConditionalData
    sub-element: ConditionalValue
    sub-element: Position
    sub-element: Vector
    sub-element: GeoLocationArea
    sub-element: Envelope
    sub-element: NormalizedCurve
  other complex property name: contact
    sub-element: Person
feature name: AbstractProcess
  simple property name: description
  simple property name: name
  other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
  other complex property name: keywords
    sub-element: KeywordList
  other complex property name: identification
    sub-element: IdentifierList
  other complex property name: classification
    sub-element: ClassifierList
  other complex property name: validTime
    sub-element: TimeInstant
    sub-element: TimePeriod
  other complex property name: securityConstraint
    sub-element: Security
  other complex property name: legalConstraint
    sub-element: Rights
  other complex property name: characteristics
    sub-element: DataRecord
    sub-element: SimpleDataRecord
    sub-element: ConditionalData
    sub-element: ConditionalValue
    sub-element: Position
    sub-element: Vector
    sub-element: GeoLocationArea
    sub-element: Envelope
sub-element: NormalizedCurve
other complex property name: capabilities
sub-element: DataRecord
sub-element: SimpleDataRecord
sub-element: ConditionalData
sub-element: ConditionalValue
sub-element: Position
sub-element: Vector
sub-element: GeoLocationArea
sub-element: Envelope
sub-element: NormalizedCurve
other complex property name: contact
sub-element: Person
sub-element: ResponsibleParty
sub-element: ContactList
other complex property name: documentation
sub-element: Document
sub-element: DocumentList
other complex property name: history
sub-element: EventList
feature name: ProcessModel
simple property name: description
simple property name: name
other complex property name: keywords
sub-element: KeywordList
other complex property name: identification
sub-element: IdentifierList
other complex property name: classification
sub-element: ClassifierList
other complex property name: validTime
sub-element: TimeInstant
sub-element: TimePeriod
other complex property name: securityConstraint
sub-element: Security
other complex property name: legalConstraint
sub-element: Rights
other complex property name: characteristics
sub-element: DataRecord
sub-element: SimpleDataRecord
sub-element: ConditionalData
sub-element: ConditionalValue
sub-element: Position
sub-element: Vector
sub-element: GeoLocationArea
sub-element: Envelope
sub-element: NormalizedCurve
other complex property name: capabilities
  sub-element: DataRecord
  sub-element: SimpleDataRecord
  sub-element: ConditionalData
  sub-element: ConditionalValue
  sub-element: Position
  sub-element: Vector
  sub-element: GeoLocationArea
  sub-element: Envelope
  sub-element: NormalizedCurve
other complex property name: contact
  sub-element: Person
  sub-element: ResponsibleParty
  sub-element: ContactList
other complex property name: documentation
  sub-element: Document
  sub-element: DocumentList
other complex property name: history
  sub-element: EventList
other complex property name: inputs
  sub-element: InputList
other complex property name: outputs
  sub-element: OutputList
other complex property name: parameters
  sub-element: ParameterList
other complex property name: method
  sub-element: ProcessMethod
feature name : DataSource
  simple property name: description
  simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
other complex property name: keywords
  sub-element: KeywordList
other complex property name: identification
  sub-element: IdentifierList
other complex property name: classification
  sub-element: ClassifierList
other complex property name: validTime
  sub-element: TimeInstant
  sub-element: TimePeriod
other complex property name: securityConstraint
  sub-element: Security
other complex property name: legalConstraint
  sub-element: Rights
other complex property name: characteristics
  sub-element: DataRecord
  sub-element: SimpleDataRecord
  sub-element: ConditionalData
  sub-element: ConditionalValue
  sub-element: Position
  sub-element: Vector
  sub-element: GeoLocationArea
  sub-element: Envelope
  sub-element: NormalizedCurve
other complex property name: capabilities
  sub-element: DataRecord
  sub-element: SimpleDataRecord
  sub-element: ConditionalData
  sub-element: ConditionalValue
  sub-element: Position
  sub-element: Vector
  sub-element: GeoLocationArea
  sub-element: Envelope
  sub-element: NormalizedCurve
other complex property name: contact
  sub-element: Person
  sub-element: ResponsibleParty
  sub-element: ContactList
other complex property name: documentation
  sub-element: Document
  sub-element: DocumentList
other complex property name: history
  sub-element: EventList
other complex property name: dataDefinition
  sub-element: DataBlockDefinition
  sub-element: DataStreamDefinition
other complex property name: values
feature name : Component
  simple property name: description
  simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
other complex property name: keywords
  sub-element: KeywordList
other complex property name: identification
  sub-element: IdentifierList
other complex property name: classification
  sub-element: ClassifierList
other complex property name: validTime
  sub-element: TimeInstant
  sub-element: TimePeriod
other complex property name: securityConstraint
  sub-element: Security
other complex property name: legalConstraint
  sub-element: Rights
other complex property name: characteristics
  sub-element: DataRecord
  sub-element: SimpleDataRecord
  sub-element: ConditionalData
  sub-element: ConditionalValue
  sub-element: Position
  sub-element: Vector
  sub-element: GeoLocationArea
  sub-element: Envelope
  sub-element: NormalizedCurve
other complex property name: capabilities
  sub-element: DataRecord
  sub-element: SimpleDataRecord
  sub-element: ConditionalData
  sub-element: ConditionalValue
  sub-element: Position
  sub-element: Vector
  sub-element: GeoLocationArea
  sub-element: Envelope
  sub-element: NormalizedCurve
other complex property name: contact
  sub-element: Person
  sub-element: ResponsibleParty
  sub-element: ContactList
other complex property name: documentation
  sub-element: Document
  sub-element: DocumentList
other complex property name: history
  sub-element: EventList
other complex property name: spatialReferenceFrame
  sub-element: EngineeringCRS
other complex property name: temporalReferenceFrame
  sub-element: TemporalCRS
geometry property name: location
other complex property name: position
  sub-element: ProcessChain
sub-element: ProcessModel
sub-element: DataSource
sub-element: Component
sub-element: System
sub-element: ComponentArray
sub-element: Position
sub-element: Vector
other complex property name: timePosition
sub-element: Time
sub-element: ProcessChain
sub-element: ProcessModel
sub-element: DataSource
sub-element: Component
sub-element: System
sub-element: ComponentArray
other complex property name: interfaces
sub-element: InterfaceList
other complex property name: inputs
sub-element: InputList
other complex property name: outputs
sub-element: OutputList
other complex property name: parameters
sub-element: ParameterList
other complex property name: method
sub-element: ProcessMethod

feature name: System
simple property name: description
simple property name: name
other complex property name: boundedBy
sub-element: Envelope
sub-element: Null
other complex property name: keywords
sub-element: KeywordList
other complex property name: identification
sub-element: IdentifierList
other complex property name: classification
sub-element: ClassifierList
other complex property name: validTime
sub-element: TimeInstant
sub-element: TimePeriod
other complex property name: securityConstraint
sub-element: Security
other complex property name: legalConstraint
sub-element: Rights
other complex property name: characteristics
sub-element: DataRecord
sub-element: SimpleDataRecord
sub-element: ConditionalData
sub-element: ConditionalValue
sub-element: Position
sub-element: Vector
sub-element: GeoLocationArea
sub-element: Envelope
sub-element: NormalizedCurve

other complex property name: capabilities
sub-element: DataRecord
sub-element: SimpleDataRecord
sub-element: ConditionalData
sub-element: ConditionalValue
sub-element: Position
sub-element: Vector
sub-element: GeoLocationArea
sub-element: Envelope
sub-element: NormalizedCurve

other complex property name: contact
sub-element: Person
sub-element: ResponsibleParty
sub-element: ContactList

other complex property name: documentation
sub-element: Document
sub-element: DocumentList

other complex property name: history
sub-element: EventList

other complex property name: spatialReferenceFrame
sub-element: EngineeringCRS

other complex property name: temporalReferenceFrame
sub-element: TemporalCRS

geometry property name: location
other complex property name: position
sub-element: ProcessChain
sub-element: ProcessModel
sub-element: DataSource
sub-element: Component
sub-element: System
sub-element: ComponentArray
sub-element: Position
sub-element: Vector

other complex property name: timePosition
sub-element: Time
sub-element: ProcessChain
sub-element: ProcessModel
sub-element: DataSource
sub-element: Component
sub-element: System
sub-element: ComponentArray
other complex property name: interfaces
  sub-element: InterfaceList
other complex property name: inputs
  sub-element: InputList
other complex property name: outputs
  sub-element: OutputList
other complex property name: parameters
  sub-element: ParameterList
other complex property name: components
  sub-element: ComponentList
other complex property name: positions
  sub-element: PositionList
other complex property name: connections
  sub-element: ConnectionList

feature name : ComponentArray
  simple property name: description
  simple property name: name
  other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
  other complex property name: keywords
    sub-element: KeywordList
  other complex property name: identification
    sub-element: IdentifierList
  other complex property name: classification
    sub-element: ClassifierList
  other complex property name: validTime
    sub-element: TimeInstant
    sub-element: TimePeriod
  other complex property name: securityConstraint
    sub-element: Security
  other complex property name: legalConstraint
    sub-element: Rights
  other complex property name: characteristics
    sub-element: DataRecord
    sub-element: SimpleDataRecord
    sub-element: ConditionalData
    sub-element: ConditionalValue
    sub-element: Position
    sub-element: Vector
sub-element: GeoLocationArea
sub-element: Envelope
sub-element: NormalizedCurve

other complex property name: capabilities
sub-element: DataRecord
sub-element: SimpleDataRecord
sub-element: ConditionalData
sub-element: ConditionalValue
sub-element: Position
sub-element: Vector
sub-element: GeoLocationArea
sub-element: Envelope
sub-element: NormalizedCurve

other complex property name: contact
sub-element: Person
sub-element: ResponsibleParty
sub-element: ContactList

other complex property name: documentation
sub-element: Document
sub-element: DocumentList

other complex property name: history
sub-element: EventList

other complex property name: spatialReferenceFrame
sub-element: EngineeringCRS

other complex property name: temporalReferenceFrame
sub-element: TemporalCRS

gameometry property name: location
other complex property name: position
sub-element: ProcessChain
sub-element: ProcessModel
sub-element: DataSource
sub-element: Component
sub-element: System
sub-element: ComponentArray
sub-element: Position
sub-element: Vector

other complex property name: timePosition
sub-element: Time
sub-element: ProcessChain
sub-element: ProcessModel
sub-element: DataSource
sub-element: Component
sub-element: System
sub-element: ComponentArray

other complex property name: interfaces
sub-element: InterfaceList
other complex property name: inputs
  sub-element: InputList
other complex property name: outputs
  sub-element: OutputList
other complex property name: parameters
  sub-element: ParameterList
other complex property name: components
  sub-element: ComponentList
other complex property name: positions
  sub-element: PositionList
other complex property name: connections
  sub-element: ConnectionList
feature name : MountainObscuration
  other complex property name: metaDataProperty
    sub-element: GenericMetaData
    simple property name: description
    simple property name: identifier
    simple property name: name
  other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
  geometry property name : location
  other complex property name: coverage
    sub-element: PercentageRange
  geometry property name : extentOf
  simple property name: intensity
  other complex property name: movement
    sub-element: MovementDescription
feature name : IFR
  other complex property name: metaDataProperty
    sub-element: GenericMetaData
    simple property name: description
    simple property name: identifier
    simple property name: name
  other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
  geometry property name : location
  other complex property name: coverage
    sub-element: PercentageRange
  geometry property name : extentOf
  simple property name: intensity
  other complex property name: movement
    sub-element: MovementDescription
feature name : Icing
  other complex property name: metaDataProperty
    sub-element: GenericMetaData
  simple property name: description
  simple property name: identifier
  simple property name: name
  other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
  geometry property name : location
  other complex property name: coverage
    sub-element: PercentageRange
  geometry property name : extentOf
  simple property name: intensity
  other complex property name: movement
    sub-element: MovementDescription
  simple property name: type
  simple property name: accretionRate

feature name : MountainWave
  other complex property name: metaDataProperty
    sub-element: GenericMetaData
  simple property name: description
  simple property name: identifier
  simple property name: name
  other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
  geometry property name : location
  other complex property name: coverage
    sub-element: PercentageRange
  geometry property name : extentOf
  simple property name: intensity
  other complex property name: movement
    sub-element: MovementDescription
  other complex property name: downdraft
    sub-element: Speed

feature name : WindShear
  other complex property name: metaDataProperty
    sub-element: GenericMetaData
  simple property name: description
  simple property name: identifier
  simple property name: name
  other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
geometry property name: location
other complex property name: coverage
  sub-element: PercentageRange
geometry property name: extentOf
simple property name: intensity
other complex property name: movement
  sub-element: MovementDescription
other complex property name: level
  sub-element: VerticalDistance

feature name: Turbulence
other complex property name: metaDataProperty
  sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
geometry property name: location
other complex property name: coverage
  sub-element: PercentageRange
geometry property name: extentOf
simple property name: intensity
other complex property name: movement
  sub-element: MovementDescription
simple property name: edr
simple property name: type

feature name: Convection
other complex property name: metaDataProperty
  sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
geometry property name: location
other complex property name: coverage
  sub-element: PercentageRange
geometry property name: extentOf
simple property name: intensity
other complex property name: movement
  sub-element: MovementDescription
simple property name: growth

feature name: VolcanicAshCloud
other complex property name: metaDataProperty
  sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
grapheme property name: location
other complex property name: coverage
  sub-element: PercentageRange
grapheme property name: extentOf
simple property name: intensity
other complex property name: movement
  sub-element: MovementDescription

feature name : VolcanicActivity
other complex property name: metaDataProperty
  sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
grapheme property name: location
other complex property name: coverage
  sub-element: PercentageRange
grapheme property name: extentOf
simple property name: intensity
other complex property name: movement
  sub-element: MovementDescription
other complex property name: volcano
  sub-element: Volcano
simple property name: eruption
simple property name: description

feature name : Volcano
other complex property name: metaDataProperty
  sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
grapheme property name: location
simple property name: position
simple property name: iavceiIdentifier
simple property name: name
feature name: AirspaceWx
other complex property name: metaDataProperty
  sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
geometry property name: location
other complex property name: associatedFeature
  sub-element: DynamicFeature
  sub-element: Observation
  sub-element: FeatureCollection
  sub-element: Volcano
  sub-element: HorizontalVisibility
  sub-element: RVR
  sub-element: SurfaceDeposit
  sub-element: Runway
  sub-element: RunwaySurfaceState
  sub-element: RunwayDirection
  sub-element: MeteorologicalWatchOffice
  sub-element: Aircraft
  sub-element: Airspace
  sub-element: TropicalCycloneAdvisoryCentre
  sub-element: Aerodrome
  sub-element: Sea
  sub-element: Route
  sub-element: VolcanicAshAdvisoryCentre
  sub-element: TREND
  sub-element: MovementDescription
  sub-element: WxCondition
  sub-element: FeatureCollection
  sub-element: AreaOfInterest
  sub-element: WxProcess
  sub-element: System
  sub-element: AbstractCoverageDomain
  sub-element: MultiPoint
  sub-element: AbstractCoverage
  sub-element: Observation
  sub-element: ObservationCollection
simple property name: changeIndicator
other complex property name: phenomenon
  sub-element: MountainObscuration
  sub-element: IFR
  sub-element: MountainWave
  sub-element: VolcanicActivity
  sub-element: TropicalCyclone
  sub-element: OtherPhenomenon
  sub-element: Shower
  sub-element: Precipitation
  sub-element: Hydrometeor
  sub-element: Lithometeor
other complex property name: obsOrFcstTime
  sub-element: TimeAggregate
other complex property name: validTime
  sub-element: TimeAggregate
simple property name: airPressure
other complex property name: isDefinedFor
  sub-element: DynamicFeature
  sub-element: Observation
  sub-element: FeatureCollection
  sub-element: Volcano
  sub-element: HorizontalVisibility
  sub-element: RVR
  sub-element: SurfaceDeposit
  sub-element: Runway
  sub-element: RunwaySurfaceState
  sub-element: RunwayDirection
  sub-element: MeteorologicalWatchOffice
  sub-element: Aircraft
  sub-element: Airspace
  sub-element: TropicalCycloneAdvisoryCentre
  sub-element: Aerodrome
  sub-element: Sea
  sub-element: Route
  sub-element: VolcanicAshAdvisoryCentre
  sub-element: TREND
  sub-element: MovementDescription
  sub-element: WxCondition
  sub-element: FeatureCollection
  sub-element: AreaOfInterest
  sub-element: WxProcess
  sub-element: System
  sub-element: AbstractCoverageDomain
  sub-element: MultiPoint
  sub-element: AbstractCoverage
sub-element: Observation
sub-element: ObservationCollection
other complex property name: horizontalVisibility
sub-element: HorizontalVisibility
other complex property name: convection
sub-element: Convection
other complex property name: icing
sub-element: Icing
other complex property name: mountainObscuration
sub-element: MountainObscuration
other complex property name: mountainWave
sub-element: MountainWave
other complex property name: turbulence
sub-element: Turbulence
other complex property name: volcanicAsh
sub-element: VolcanicAshCloud
other complex property name: cloudCondition
sub-element: CloudCondition

feature name : HorizontalVisibility
other complex property name: metaDataProperty
sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
sub-element: Envelope
sub-element: Null
geometry property name : location
simple property name: unidirectionalVisibility
simple property name: directionMinimum

feature name : AviationWx
other complex property name: metaDataProperty
sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
sub-element: Envelope
sub-element: Null
geometry property name : location
other complex property name: associatedFeature
sub-element: DynamicFeature
sub-element: Observation
sub-element: FeatureCollection
sub-element: Volcano

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sub-element: HorizontalVisibility
sub-element: RVR
sub-element: SurfaceDeposit
sub-element: Runway
sub-element: RunwaySurfaceState
sub-element: RunwayDirection
sub-element: MeteorologicalWatchOffice
sub-element: Aircraft
sub-element: Airspace
sub-element: TropicalCycloneAdvisoryCentre
sub-element: Aerodrome
sub-element: Sea
sub-element: Route
sub-element: VolcanicAshAdvisoryCentre
sub-element: TREND
sub-element: MovementDescription
sub-element: WxCondition
sub-element: FeatureCollection
sub-element: AreaOfInterest
sub-element: WxProcess
sub-element: System
sub-element: AbstractCoverageDomain
sub-element: MultiPoint
sub-element: AbstractCoverage
sub-element: Observation
sub-element: ObservationCollection

simple property name: changeIndicator
other complex property name: phenomenon
sub-element: MountainObscuration
sub-element: IFR
sub-element: MountainWave
sub-element: VolcanicActivity
sub-element: TropicalCyclone
sub-element: OtherPhenomenon
sub-element: Shower
sub-element: Precipitation
sub-element: Hydrometeor
sub-element: Lithometeor

other complex property name: obsOrFcstTime
sub-element: TimeAggregate

other complex property name: validTime
sub-element: TimeAggregate

simple property name: airPressure
other complex property name: isDefinedFor
sub-element: DynamicFeature
sub-element: Observation
sub-element: FeatureCollection
sub-element: Volcano
sub-element: HorizontalVisibility
sub-element: RVR
sub-element: SurfaceDeposit
sub-element: Runway
sub-element: RunwaySurfaceState
sub-element: RunwayDirection
sub-element: MeteorologicalWatchOffice
sub-element: Aircraft
sub-element: Airspace
sub-element: TropicalCycloneAdvisoryCentre
sub-element: Aerodrome
sub-element: Sea
sub-element: Route
sub-element: VolcanicAshAdvisoryCentre
sub-element: TREND
sub-element: MovementDescription
sub-element: WxCondition
sub-element: FeatureCollection
sub-element: AreaOfInterest
sub-element: WxProcess
sub-element: System
sub-element: AbstractCoverageDomain
sub-element: MultiPoint
sub-element: AbstractCoverage
sub-element: Observation
sub-element: ObservationCollection

other complex property name: horizontalVisibility
sub-element: HorizontalVisibility

feature name: AerodromeWx
other complex property name: metaDataProperty
sub-element: GenericMetaData

simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
sub-element: Envelope
sub-element: Null

geometry property name: location
other complex property name: associatedFeature
sub-element: DynamicFeature
sub-element: Observation
sub-element: FeatureCollection
sub-element: Volcano
sub-element: HorizontalVisibility
sub-element: RVR
sub-element: SurfaceDeposit
sub-element: Runway
sub-element: RunwaySurfaceState
sub-element: RunwayDirection
sub-element: MeteorologicalWatchOffice
sub-element: Aircraft
sub-element: Airspace
sub-element: TropicalCycloneAdvisoryCentre
sub-element: Aerodrome
sub-element: Sea
sub-element: Route
sub-element: VolcanicAshAdvisoryCentre
sub-element: TREND
sub-element: MovementDescription
sub-element: WxCondition
sub-element: FeatureCollection
sub-element: AreaOfInterest
sub-element: WxProcess
sub-element: System
sub-element: AbstractCoverageDomain
sub-element: MultiPoint
sub-element: AbstractCoverage
sub-element: Observation
sub-element: ObservationCollection
simple property name: changeIndicator
other complex property name: phenomenon
sub-element: MountainObscuration
sub-element: IFR
sub-element: MountainWave
sub-element: VolcanicActivity
sub-element: TropicalCyclone
sub-element: OtherPhenomenon
sub-element: Shower
sub-element: Precipitation
sub-element: Hydrometeor
sub-element: Lithometeor
other complex property name: obsOrFcstTime
sub-element: TimeAggregate
other complex property name: validTime
sub-element: TimeAggregate
simple property name: airPressure
other complex property name: isDefinedFor
sub-element: DynamicFeature
sub-element: Observation
sub-element: FeatureCollection
sub-element: Volcano
sub-element: HorizontalVisibility
sub-element: RVR
sub-element: SurfaceDeposit
sub-element: Runway
sub-element: RunwaySurfaceState
sub-element: RunwayDirection
sub-element: MeteorologicalWatchOffice
sub-element: Aircraft
sub-element: Airspace
sub-element: TropicalCycloneAdvisoryCentre
sub-element: Aerodrome
sub-element: Sea
sub-element: Route
sub-element: VolcanicAshAdvisoryCentre
sub-element: TREND
sub-element: MovementDescription
sub-element: WxCondition
sub-element: FeatureCollection
sub-element: AreaOfInterest
sub-element: WxProcess
sub-element: System
sub-element: AbstractCoverageDomain
sub-element: MultiPoint
sub-element: AbstractCoverage
sub-element: Observation
sub-element: ObservationCollection
other complex property name: horizontalVisibility
sub-element: HorizontalVisibility
other complex property name: seaWx
sub-element: SeaWx
other complex property name: wxCondition
sub-element: WxCondition
simple property name: cavok
other complex property name: cloudCondition
sub-element: CloudCondition
simple property name: colourState
feature name : SeaWx
other complex property name: metaDataProperty
sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
geometry property name: location
other complex property name: associatedFeature
  sub-element: DynamicFeature
  sub-element: Observation
  sub-element: FeatureCollection
  sub-element: Volcano
  sub-element: HorizontalVisibility
  sub-element: RVR
  sub-element: SurfaceDeposit
  sub-element: Runway
  sub-element: RunwaySurfaceState
  sub-element: RunwayDirection
  sub-element: MeteorologicalWatchOffice
  sub-element: Aircraft
  sub-element: Airspace
  sub-element: TropicalCycloneAdvisoryCentre
  sub-element: Aerodrome
  sub-element: Sea
  sub-element: Route
  sub-element: VolcanicAshAdvisoryCentre
  sub-element: TREND
  sub-element: MovementDescription
  sub-element: WxCondition
  sub-element: FeatureCollection
  sub-element: AreaOfInterest
  sub-element: WxProcess
  sub-element: System
  sub-element: AbstractCoverageDomain
  sub-element: MultiPoint
  sub-element: AbstractCoverage
  sub-element: Observation
  sub-element: ObservationCollection
simple property name: changeIndicator
other complex property name: phenomenon
  sub-element: MountainObscuration
  sub-element: IFR
  sub-element: MountainWave
  sub-element: VolcanicActivity
  sub-element: TropicalCyclone
  sub-element: OtherPhenomenon
  sub-element: Shower
sub-element: Precipitation
sub-element: Hydrometeor
sub-element: Lithometeor
other complex property name: obsOrFctTime
sub-element: TimeAggregate
other complex property name: validTime
sub-element: TimeAggregate
simple property name: surfaceTemperature
simple property name: seaState

feature name: RVR
other complex property name: metaDataProperty
  sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null

geometry property name: location
simple property name: pastTendency

feature name: RunwayWx
other complex property name: metaDataProperty
  sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null

geometry property name: location
other complex property name: associatedFeature
  sub-element: DynamicFeature
  sub-element: Observation
  sub-element: FeatureCollection
  sub-element: Volcano
  sub-element: HorizontalVisibility
  sub-element: RVR
  sub-element: SurfaceDeposit
  sub-element: Runway
  sub-element: RunwaySurfaceState
  sub-element: RunwayDirection
  sub-element: MeteorologicalWatchOffice
  sub-element: Aircraft
  sub-element: Airspace
  sub-element: TropicalCycloneAdvisoryCentre
sub-element: Aerodrome
sub-element: Sea
sub-element: Route
sub-element: VolcanicAshAdvisoryCentre
sub-element: TREND
sub-element: MovementDescription
sub-element: WxCondition
sub-element: FeatureCollection
sub-element: AreaOfInterest
sub-element: WxProcess
sub-element: System
sub-element: AbstractCoverageDomain
sub-element: MultiPoint
sub-element: AbstractCoverage
sub-element: Observation
sub-element: ObservationCollection

simple property name: changeIndicator
other complex property name: phenomenon
sub-element: MountainObscuration
sub-element: IFR
sub-element: MountainWave
sub-element: VolcanicActivity
sub-element: TropicalCyclone
sub-element: OtherPhenomenon
sub-element: Shower
sub-element: Precipitation
sub-element: Hydrometeor
sub-element: Lithometeor

other complex property name: obsOrFcstTime
sub-element: TimeAggregate

other complex property name: validTime
sub-element: TimeAggregate

simple property name: airPressure
other complex property name: isDefinedFor
sub-element: DynamicFeature
sub-element: Observation
sub-element: FeatureCollection
sub-element: Volcano
sub-element: HorizontalVisibility
sub-element: RVR
sub-element: SurfaceDeposit
sub-element: Runway
sub-element: RunwaySurfaceState
sub-element: RunwayDirection
sub-element: MeteorologicalWatchOffice
sub-element: Aircraft
sub-element: Airspace
sub-element: TropicalCycloneAdvisoryCentre
sub-element: Aerodrome
sub-element: Sea
sub-element: Route
sub-element: VolcanicAshAdvisoryCentre
sub-element: TREND
sub-element: MovementDescription
sub-element: WxCondition
sub-element: FeatureCollection
sub-element: AreaOfInterest
sub-element: WxProcess
sub-element: System
sub-element: AbstractCoverageDomain
sub-element: MultiPoint
sub-element: AbstractCoverage
sub-element: Observation
sub-element: ObservationCollection
other complex property name: horizontalVisibility
sub-element: HorizontalVisibility
other complex property name: rvr
sub-element: RVR

feature name : RouteWx
other complex property name: metaDataProperty
sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
sub-element: Envelope
sub-element: Null

geometry property name : location
other complex property name: associatedFeature
sub-element: DynamicFeature
sub-element: Observation
sub-element: FeatureCollection
sub-element: Volcano
sub-element: HorizontalVisibility
sub-element: RVR
sub-element: SurfaceDeposit
sub-element: Runway
sub-element: RunwaySurfaceState
sub-element: RunwayDirection
sub-element: MeteorologicalWatchOffice
sub-element: Aircraft
sub-element: Airspace
sub-element: TropicalCycloneAdvisoryCentre
sub-element: Aerodrome
sub-element: Sea
sub-element: Route
sub-element: VolcanicAshAdvisoryCentre
sub-element: TREND
sub-element: MovementDescription
sub-element: WxCondition
sub-element: FeatureCollection
sub-element: AreaOfInterest
sub-element: WxProcess
sub-element: System
sub-element: AbstractCoverageDomain
sub-element: MultiPoint
sub-element: AbstractCoverage
sub-element: Observation
sub-element: ObservationCollection

simple property name: changeIndicator
other complex property name: phenomenon
  sub-element: MountainObscuration
  sub-element: IFR
  sub-element: MountainWave
  sub-element: VolcanicActivity
  sub-element: TropicalCyclone
  sub-element: OtherPhenomenon
  sub-element: Shower
  sub-element: Precipitation
  sub-element: Hydrometeor
  sub-element: Lithometeor

other complex property name: obsOrFcstTime
  sub-element: TimeAggregate

other complex property name: validTime
  sub-element: TimeAggregate

simple property name: airPressure
other complex property name: isDefinedFor
  sub-element: DynamicFeature
  sub-element: Observation
  sub-element: FeatureCollection
  sub-element: Volcano
  sub-element: HorizontalVisibility
  sub-element: RVR
  sub-element: SurfaceDeposit
  sub-element: Runway
feature name : SurfaceDeposit
  other complex property name: metaDataProperty
    sub-element: GenericMetaData
      simple property name: description
      simple property name: identifier
      simple property name: name
  other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
  geometry property name : location
  simple property name: contaminationExtent
  simple property name: surfaceDepositType

feature name : Runway
  other complex property name: metaDataProperty
    sub-element: GenericMetaData
      simple property name: description
      simple property name: identifier
      simple property name: name
  other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
feature name: RunwaySurfaceState
  other complex property name: metaDataProperty
    sub-element: GenericMetadata
  simple property name: description
  simple property name: identifier
  simple property name: name
  other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null

feature name: RunwayDirection
  other complex property name: metaDataProperty
    sub-element: GenericMetadata
  simple property name: description
  simple property name: identifier
  simple property name: name
  other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null

feature name: MeteorologicalWatchOffice
  other complex property name: metaDataProperty
    sub-element: GenericMetadata
  simple property name: description
  simple property name: identifier
  simple property name: name
  other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null

geometry property name: location
simple property name: runwayDesignator
other complex property name: runwaySurfaceState
  sub-element: RunwaySurfaceState
geometry property name: extent

other complex property name: metaDataProperty
  sub-element: GenericMetadata
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null

geometry property name: location
simple property name: frictionCoefficient
simple property name: brakingAction
other complex property name: surfaceDeposit
  sub-element: SurfaceDeposit
  simple property name: cleared
  simple property name: snoclo

feature name: RunwayDirection
  other complex property name: metaDataProperty
    sub-element: GenericMetadata
  simple property name: description
  simple property name: identifier
  simple property name: name
  other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null

feature name: MeteorologicalWatchOffice
  other complex property name: metaDataProperty
    sub-element: GenericMetadata
  simple property name: description
  simple property name: identifier
  simple property name: name
  other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null

geometry property name: location
simple property name: position
simple property name: icaoCode
simple property name: name

feature name: Aircraft
other complex property name: metaDataProperty
  sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
geometry property name: location
simple property name: callsign

feature name: Airspace
other complex property name: metaDataProperty
  sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
geometry property name: location
geometry property name: extentOf
simple property name: name
simple property name: icaoCode

feature name: TropicalCycloneAdvisoryCentre
other complex property name: metaDataProperty
  sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
geometry property name: location
simple property name: position
simple property name: icaoCode
simple property name: name

feature name: Aerodrome
other complex property name: metaDataProperty
  sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
feature name : Sea
other complex property name: metaDataProperty
   sub-element: GenericMetaData
   simple property name: description
   simple property name: identifier
   simple property name: name
other complex property name: boundedBy
   sub-element: Envelope
   sub-element: Null
geometry property name : location
simple property name: name

feature name : Route
other complex property name: metaDataProperty
   sub-element: GenericMetaData
   simple property name: description
   simple property name: identifier
   simple property name: name
other complex property name: boundedBy
   sub-element: Envelope
   sub-element: Null
geometry property name : location

feature name : VolcanicAshAdvisoryCentre
other complex property name: metaDataProperty
   sub-element: GenericMetaData
   simple property name: description
   simple property name: identifier
   simple property name: name
other complex property name: boundedBy
   sub-element: Envelope
   sub-element: Null
geometry property name : location
simple property name: position
simple property name: name

feature name : TREND
other complex property name: metaDataProperty
   sub-element: GenericMetaData
   simple property name: description
   simple property name: identifier
   simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
geometry property name : location
simple property name: changePeriod
simple property name: trendChangeIndicator
other complex property name: forecast
  sub-element: Forecast
feature name : AerodromeWarning
  other complex property name: metaDataProperty
    sub-element: GenericMetaData
  simple property name: description
  simple property name: identifier
  simple property name: name
  other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
  geometry property name : location
  other complex property name: process
    sub-element: ReportProcess
  simple property name: rawText
  other complex property name: issuedFor
    sub-element: Aerodrome
  simple property name: cancellation
  simple property name: identification
feature name : AbstractReport
  other complex property name: metaDataProperty
    sub-element: GenericMetaData
  simple property name: description
  simple property name: identifier
  simple property name: name
  other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
  geometry property name : location
  other complex property name: process
    sub-element: ReportProcess
  simple property name: rawText
feature name : AreaReport
  other complex property name: metaDataProperty
    sub-element: GenericMetaData
  simple property name: description
  simple property name: identifier
  simple property name: name
  other complex property name: boundedBy
sub-element: Envelope
sub-element: Null
geometry property name : location
other complex property name: process
    sub-element: ReportProcess
simple property name: rawText
other complex property name: airspaceAreaForecast
    sub-element: Forecast
simple property name: stationId
simple property name: intensityChanges
simple property name: cancellation
simple property name: identification
simple property name: issueTime
other complex property name: issuedFor
    sub-element: Airspace

feature name : AIRMET
other complex property name: metaDataProperty
    sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
geometry property name : location
other complex property name: process
    sub-element: ReportProcess
simple property name: rawText
other complex property name: airspaceAreaForecast
    sub-element: Forecast
simple property name: stationId
simple property name: intensityChanges
simple property name: cancellation
simple property name: identification
simple property name: issueTime
other complex property name: issuedFor
    sub-element: Airspace

feature name : G-SIGMET
other complex property name: metaDataProperty
    sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
    sub-element: Envelope
sub-element: Null
gometry property name : location
other complex property name: process
    sub-element: ReportProcess
simple property name: rawText
other complex property name: airspaceAreaForecast
    sub-element: Forecast
simple property name: stationId
simple property name: intensityChanges
simple property name: cancellation
simple property name: identification
simple property name: issueTime
other complex property name: issuedFor
    sub-element: Airspace
feature name : CCFP
other complex property name: metaDataProperty
    sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
geometry property name : location
other complex property name: process
    sub-element: ReportProcess
simple property name: rawText
other complex property name: airspaceAreaForecast
    sub-element: Forecast
simple property name: stationId
simple property name: intensityChanges
simple property name: cancellation
simple property name: identification
simple property name: issueTime
other complex property name: issuedFor
    sub-element: Airspace
feature name : SIGMET
other complex property name: metaDataProperty
    sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
geometry property name : location
other complex property name: process
    sub-element: ReportProcess
simple property name: rawText
other complex property name: airspaceAreaForecast
    sub-element: Forecast
simple property name: stationId
simple property name: intensityChanges
simple property name: cancellation
simple property name: identification
simple property name: issueTime
other complex property name: issuedFor
    sub-element: Airspace

feature name : G-AIRMET
    other complex property name: metaDataProperty
        sub-element: GenericMetaData
        simple property name: description
        simple property name: identifier
        simple property name: name
    other complex property name: boundedBy
        sub-element: Envelope
        sub-element: Null
        geometry property name : location
        other complex property name: process
            sub-element: ReportProcess
        simple property name: rawText
        other complex property name: airspaceAreaForecast
            sub-element: Forecast
        simple property name: stationId
        simple property name: intensityChanges
        simple property name: cancellation
        simple property name: identification
        simple property name: issueTime
        other complex property name: issuedFor
            sub-element: Airspace

feature name : WindShearWarning
    other complex property name: metaDataProperty
        sub-element: GenericMetaData
        simple property name: description
        simple property name: identifier
        simple property name: name
    other complex property name: boundedBy
        sub-element: Envelope
        sub-element: Null
        geometry property name : location
other complex property name: process
  sub-element: ReportProcess
simple property name: rawText
other complex property name: issuedFor
  sub-element: Aerodrome
other complex property name: runwayAreaObservationOrForecast
  sub-element: Forecast
  sub-element: Observation
other complex property name: affectsRunway
  sub-element: Runway
simple property name: validityPeriod
simple property name: originTime

feature name : WindLayer
other complex property name: metaDataProperty
  sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
geometry property name : location
other complex property name: coverage
  sub-element: PercentageRange
geometry property name : extentOf
simple property name: intensity
other complex property name: movement
  sub-element: MovementDescription
other complex property name: direction
  sub-element: WindDirection
other complex property name: directionVariesFrom
  sub-element: WindDirection
other complex property name: directionVariesTo
  sub-element: WindDirection
other complex property name: height
  sub-element: VerticalDistance
geometry property name : position
other complex property name: speed
  sub-element: WindSpeed
other complex property name: speedVariesFrom
  sub-element: WindSpeed
other complex property name: speedVariesTo
  sub-element: WindSpeed

feature name : LocalReport
  other complex property name: metaDataProperty
sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
geometry property name : location
other complex property name: process
  sub-element: ReportProcess
simple property name: rawText
other complex property name: appliesTo
  sub-element: Aerodrome
other complex property name: observation
  sub-element: Observation
other complex property name: trendForecast
  sub-element: TREND
simple property name: type
simple property name: observationTime

feature name : SpecialAirReport
  other complex property name: metaDataProperty
    sub-element: GenericMetaData
    simple property name: description
    simple property name: identifier
    simple property name: name
    other complex property name: boundedBy
      sub-element: Envelope
      sub-element: Null
    geometry property name : location
    other complex property name: process
      sub-element: ReportProcess
    simple property name: rawText
    other complex property name: isFrom
      sub-element: Aircraft
    simple property name: identification
    other complex property name: routeAreaObservationOrForecast
      sub-element: Forecast
      sub-element: Observation

feature name : TropicalCycloneAdvisory
  other complex property name: metaDataProperty
    sub-element: GenericMetaData
    simple property name: description
    simple property name: identifier
    simple property name: name
    other complex property name: boundedBy
feature name: AerialReport
  other complex property name: metaDataProperty
    sub-element: GenericMetaData
  simple property name: description
  simple property name: identifier
  simple property name: name
  other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
  geometry property name: location
  other complex property name: process
    sub-element: ReportProcess
  simple property name: rawText
  other complex property name: airspaceWxObservation
    sub-element: Observation
    simple property name: aircraftId
    simple property name: airframeId
    simple property name: flightId

feature name: AIREP
  other complex property name: metaDataProperty
    sub-element: GenericMetaData
  simple property name: description
  simple property name: identifier
  simple property name: name
  other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
  geometry property name: location
  other complex property name: process
    sub-element: ReportProcess
simple property name: rawText
other complex property name: airspaceWxObservation
  sub-element: Observation
simple property name: aircraftId
simple property name: airframeId
simple property name: flightId

feature name: AMDAR
other complex property name: metaDataProperty
  sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
geometry property name: location
other complex property name: process
  sub-element: ReportProcess
simple property name: rawText
other complex property name: airspaceWxObservation
  sub-element: Observation
simple property name: aircraftId
simple property name: airframeId
simple property name: flightId

feature name: UrgentPIREP
other complex property name: metaDataProperty
  sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
geometry property name: location
other complex property name: process
  sub-element: ReportProcess
simple property name: rawText
other complex property name: airspaceWxObservation
  sub-element: Observation
simple property name: aircraftId
simple property name: airframeId
simple property name: flightId
other complex property name: relativeTo
  sub-element: StationBearing

feature name: AerialPilotReport
other complex property name: metaDataProperty
  sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
gеometry property name: location
other complex property name: process
  sub-element: ReportProcess
simple property name: rawText
other complex property name: airspaceWxObservation
  sub-element: Observation
simple property name: aircraftId
simple property name: airframeId
simple property name: flightId
other complex property name: relativeTo
  sub-element: StationBearing

feature name: PIREP
other complex property name: metaDataProperty
  sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
gеometry property name: location
other complex property name: process
  sub-element: ReportProcess
simple property name: rawText
other complex property name: airspaceWxObservation
  sub-element: Observation
simple property name: aircraftId
simple property name: airframeId
simple property name: flightId
other complex property name: relativeTo
  sub-element: StationBearing

feature name: MDCR
other complex property name: metaDataProperty
  sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
feature name: VolcanicActivityReport
other complex property name: metaDataProperty
  sub-element: GenericMetaData
  simple property name: description
  simple property name: identifier
  simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
geometry property name: location
other complex property name: process
  sub-element: ReportProcess
simple property name: rawText
other complex property name: airspaceWxObservation
  sub-element: Observation
  simple property name: aircraftId
  simple property name: airframeId
  simple property name: flightId
feature name: VolcanicActivityReport
other complex property name: metaDataProperty
  sub-element: GenericMetaData
  simple property name: description
  simple property name: identifier
  simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
geometry property name: location
other complex property name: process
  sub-element: ReportProcess
simple property name: rawText
other complex property name: issuedBy
  sub-element: VolcanicAshAdvisoryCentre
other complex property name: volcanicActivityObservation
  sub-element: Observation
other complex property name: volcanicAshCloudObservation
  sub-element: Observation
  simple property name: issueTime
feature name: VolcanicAshAdvisory
other complex property name: metaDataProperty
  sub-element: GenericMetaData
  simple property name: description
  simple property name: identifier
  simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
geometry property name: location
other complex property name: process
  sub-element: ReportProcess
simple property name: rawText
simple property name: informationSource
other complex property name: issuedBy
    sub-element: VolcanicAshAdvisoryCentre
simple property name: remarks
other complex property name: volcanicActivityObservation
    sub-element: Observation
other complex property name: volcanicAshCloudForecast
    sub-element: Forecast
other complex property name: volcanicAshCloudObservation
    sub-element: Observation
simple property name: nextAdvisoryTime
simple property name: originTime
simple property name: number
simple property name: nextAdvisoryText
simple property name: aviationColourCode
feature name: TropicalCyclone
    other complex property name: metaDataProperty
        sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
geometry property name: location
other complex property name: coverage
    sub-element: PercentageRange
geometry property name: extentOf
simple property name: intensity
other complex property name: movement
    sub-element: MovementDescription
other complex property name: centralPressure
    sub-element: Pressure
other complex property name: maxSurfaceWindSpeed
    sub-element: WindSpeed
simple property name: centre
simple property name: name
feature name: SurfaceReport
    other complex property name: metaDataProperty
        sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
    sub-element: Envelope
sub-element: Null
geometry property name : location
other complex property name: process
   sub-element: ReportProcess
simple property name: rawText
other complex property name: aerodromeWxObservation
   sub-element: Observation
other complex property name: runwayWxObservation
   sub-element: Observation
other complex property name: appliesTo
   sub-element: Aerodrome
simple property name: stationId
simple property name: issueTime
simple property name: automated
simple property name: missing
other complex property name: aerodromeWxForecast
   sub-element: Forecast

feature name : METAR
other complex property name: metaDataProperty
   sub-element: GenericMetaData
   simple property name: description
   simple property name: identifier
   simple property name: name
other complex property name: boundedBy
   sub-element: Envelope
   sub-element: Null
geometry property name : location
other complex property name: process
   sub-element: ReportProcess
simple property name: rawText
other complex property name: aerodromeWxObservation
   sub-element: Observation
other complex property name: runwayWxObservation
   sub-element: Observation
other complex property name: appliesTo
   sub-element: Aerodrome
simple property name: stationId
simple property name: issueTime
simple property name: automated
simple property name: missing
other complex property name: aerodromeWxForecast
   sub-element: Forecast
simple property name: corrected
feature name : METARSpeci
other complex property name: metaDataProperty
sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
geometry property name : location
other complex property name: process
  sub-element: ReportProcess
simple property name: rawText
other complex property name: aerodromeWxObservation
  sub-element: Observation
other complex property name: runwayWxObservation
  sub-element: Observation
other complex property name: appliesTo
  sub-element: Aerodrome
simple property name: stationId
simple property name: issueTime
simple property name: automated
simple property name: missing
other complex property name: aerodromeWxForecast
  sub-element: Forecast
simple property name: corrected
feature name : AbstractPhenomenon
  other complex property name: metaDataProperty
    sub-element: GenericMetaData
    simple property name: description
    simple property name: identifier
    simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
geometry property name : location
other complex property name: coverage
  sub-element: PercentageRange
geometry property name : extentOf
simple property name: intensity
other complex property name: movement
  sub-element: MovementDescription
feature name : MovementDescription
  other complex property name: metaDataProperty
    sub-element: GenericMetaData
    simple property name: description
    simple property name: identifier
simple property name: name
other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
geometry property name: location
simple property name: directionTowards
simple property name: speed
simple property name: isStationary
simple property name: compassDirection

feature name: VerticallyBoundedPhenomenon
other complex property name: metaDataProperty
    sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
geometry property name: location
other complex property name: coverage
    sub-element: PercentageRange
geometry property name: extentOf
simple property name: intensity
other complex property name: movement
    sub-element: MovementDescription

feature name: OtherPhenomenon
other complex property name: metaDataProperty
    sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
geometry property name: location
other complex property name: coverage
    sub-element: PercentageRange
geometry property name: extentOf
simple property name: intensity
other complex property name: movement
    sub-element: MovementDescription
    simple property name: phenomenonType

feature name: WxCondition
other complex property name: metaDataProperty
    sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
geometry property name: location
other complex property name: weatherModifier
    sub-element: WeatherIntensity
    sub-element: WeatherProximity
other complex property name: wxPhenomenon
    sub-element: MountainObscuration
    sub-element: IFR
    sub-element: MountainWave
    sub-element: VolcanicActivity
    sub-element: TropicalCyclone
    sub-element: OtherPhenomenon
    sub-element: Shower
    sub-element: Precipitation
    sub-element: Hydrometeor
    sub-element: Lithometeor
simple property name: wxCode
simple property name: weatherDescriptor
feature name: FeatureCollection
other complex property name: metaDataProperty
    sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
geometry property name: location
other complex property name: featureMember
    sub-element: DynamicFeature
    sub-element: Observation
    sub-element: FeatureCollection
    sub-element: Volcano
    sub-element: HorizontalVisibility
    sub-element: RVR
    sub-element: SurfaceDeposit
    sub-element: Runway
    sub-element: RunwaySurfaceState
    sub-element: RunwayDirection
    sub-element: MeteorologicalWatchOffice
sub-element: Aircraft
sub-element: Airspace
sub-element: TropicalCycloneAdvisoryCentre
sub-element: Aerodrome
sub-element: Sea
sub-element: Route
sub-element: VolcanicAshAdvisoryCentre
sub-element: TREND
sub-element: MovementDescription
sub-element: WxCondition
sub-element: FeatureCollection
sub-element: AreaOfInterest
sub-element: WxProcess
sub-element: System
sub-element: AbstractCoverageDomain
sub-element: MultiPoint
sub-element: AbstractCoverage
sub-element: Observation
sub-element: ObservationCollection

feature name : AbstractWxFeature
other complex property name: metaDataProperty
sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
sub-element: Envelope
sub-element: Null

grapheme property name : location
other complex property name: associatedFeature
sub-element: DynamicFeature
sub-element: Observation
sub-element: FeatureCollection
sub-element: Volcano
sub-element: HorizontalVisibility
sub-element: RVR
sub-element: SurfaceDeposit
sub-element: Runway
sub-element: RunwaySurfaceState
sub-element: RunwayDirection
sub-element: MeteorologicalWatchOffice
sub-element: Aircraft
sub-element: Airspace
sub-element: TropicalCycloneAdvisoryCentre
sub-element: Aerodrome
sub-element: Sea
sub-element: Route
sub-element: VolcanicAshAdvisoryCentre
sub-element: TREND
sub-element: MovementDescription
sub-element: WxCondition
sub-element: FeatureCollection
sub-element: AreaOfInterest
sub-element: WxProcess
sub-element: System
sub-element: AbstractCoverageDomain
sub-element: MultiPoint
sub-element: AbstractCoverage
sub-element: Observation
sub-element: ObservationCollection

simple property name: changeIndicator
other complex property name: phenomenon
  sub-element: MountainObscuration
  sub-element: IFR
  sub-element: MountainWave
  sub-element: VolcanicActivity
  sub-element: TropicalCyclone
  sub-element: OtherPhenomenon
  sub-element: Shower
  sub-element: Precipitation
  sub-element: Hydrometeor
  sub-element: Lithometeor

other complex property name: obsOrFctstTime
sub-element: TimeAggregate

other complex property name: validTime
sub-element: TimeAggregate

feature name : AreaOfInterest
other complex property name: metaDataProperty
  sub-element: GenericMetaData

simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null

geometry property name : location
geometry property name : extentOf

feature name : WxProcess
other complex property name: metaDataProperty
  sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
geometry property name : location
other complex property name: system
  sub-element: System
simple property name: humanEstimated

feature name : System
other complex property name: metaDataProperty
  sub-element: GenericMetaMetadata
  simple property name: description
  simple property name: identifier
  simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
geometry property name : location
other complex property name: system
  sub-element: System
simple property name: humanEstimated

feature name : ReportProcess
other complex property name: metaDataProperty
  sub-element: GenericMetaMetadata
  simple property name: description
  simple property name: identifier
  simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
geometry property name : location
other complex property name: system
  sub-element: System
simple property name: humanEstimated

feature name : Forecast
other complex property name: metaDataProperty
  sub-element: GenericMetaMetadata
  simple property name: description
  simple property name: identifier
  simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
geometry property name : location
other complex property name: metadata
  sub-element: MD_Metadata
other complex property name: samplingTime
  sub-element: TimeAggregate
other complex property name: resultTime
  sub-element: TimeAggregate
other complex property name: procedure
  sub-element: ProcessChain
  sub-element: ProcessModel
  sub-element: DataSource
  sub-element: Component
  sub-element: System
  sub-element: ComponentArray
  sub-element: Process
other complex property name: resultQuality
other complex property name: observedProperty
  sub-element: Phenomenon
other complex property name: featureOfInterest
  sub-element: DynamicFeature
  sub-element: Observation
  sub-element: FeatureCollection
  sub-element: Volcano
  sub-element: HorizontalVisibility
  sub-element: RVR
  sub-element: SurfaceDeposit
  sub-element: Runway
  sub-element: RunwaySurfaceState
  sub-element: RunwayDirection
  sub-element: MeteorologicalWatchOffice
  sub-element: Aircraft
  sub-element: Airspace
  sub-element: TropicalCycloneAdvisoryCentre
  sub-element: Aerodrome
  sub-element: Sea
  sub-element: Route
  sub-element: VolcanicAshAdvisoryCentre
  sub-element: TREND
  sub-element: MovementDescription
  sub-element: WxCondition
  sub-element: FeatureCollection
  sub-element: AreaOfInterest
  sub-element: WxProcess
  sub-element: System
  sub-element: AbstractCoverageDomain
  sub-element: MultiPoint
  sub-element: AbstractCoverage
  sub-element: Observation
sub-element: ObservationCollection
other complex property name: parameter
  sub-element: Count
  sub-element: Quantity
  sub-element: Time
  sub-element: Boolean
  sub-element: Category
  sub-element: Text
  sub-element: QuantityRange
  sub-element: CountRange
  sub-element: TimeRange
  sub-element: DataRecord
  sub-element: SimpleDataRecord
  sub-element: ConditionalData
  sub-element: ConditionalValue
  sub-element: Position
  sub-element: Vector
  sub-element: GeoLocationArea
  sub-element: Envelope
  sub-element: NormalizedCurve
  sub-element: DataArray
  sub-element: SquareMatrix
  sub-element: Curve
other complex property name: result
other complex property name: forecastAnalysisTime
  sub-element: TimeAggregate
other complex property name: validTime
  sub-element: TimeAggregate
other complex property name: confidence
  sub-element: Percentage
other complex property name: confidenceRange
  sub-element: PercentageRange
other complex property name: probability
  sub-element: Percentage
simple property name: changeIndicator
other complex property name: relatedObservation
  sub-element: DynamicFeature
  sub-element: Observation
  sub-element: FeatureCollection
  sub-element: Volcano
  sub-element: HorizontalVisibility
  sub-element: RVR
  sub-element: SurfaceDeposit
  sub-element: Runway
  sub-element: RunwaySurfaceState
sub-element: RunwayDirection
sub-element: MeteorologicalWatchOffice
sub-element: Aircraft
sub-element: Airspace
sub-element: TropicalCycloneAdvisoryCentre
sub-element: Aerodrome
sub-element: Sea
sub-element: Route
sub-element: VolcanicAshAdvisoryCentre
sub-element: TREND
sub-element: MovementDescription
sub-element: WxCondition
sub-element: FeatureCollection
sub-element: AreaOfInterest
sub-element: WxProcess
sub-element: System
sub-element: AbstractCoverageDomain
sub-element: MultiPoint
sub-element: AbstractCoverage
sub-element: Observation
sub-element: ObservationCollection

feature name : Observation
  other complex property name: metaDataProperty
    sub-element: GenericMetaData
      simple property name: description
      simple property name: identifier
      simple property name: name
  other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
  geometry property name : location
  other complex property name: metadata
    sub-element: MD_Metadata
  other complex property name: samplingTime
    sub-element: TimeAggregate
  other complex property name: resultTime
    sub-element: TimeAggregate
  other complex property name: procedure
    sub-element: ProcessChain
    sub-element: ProcessModel
    sub-element: DataSource
    sub-element: Component
    sub-element: System
    sub-element: ComponentArray
    sub-element: Process
other complex property name: resultQuality
other complex property name: observedProperty
   sub-element: Phenomenon
other complex property name: featureOfInterest
   sub-element: DynamicFeature
   sub-element: Observation
   sub-element: FeatureCollection
   sub-element: Volcano
   sub-element: HorizontalVisibility
   sub-element: RVR
   sub-element: SurfaceDeposit
   sub-element: Runway
   sub-element: RunwaySurfaceState
   sub-element: RunwayDirection
   sub-element: MeteorologicalWatchOffice
   sub-element: Aircraft
   sub-element: Airspace
   sub-element: TropicalCycloneAdvisoryCentre
   sub-element: Aerodrome
   sub-element: Sea
   sub-element: Route
   sub-element: VolcanicAshAdvisoryCentre
   sub-element: TREND
   sub-element: MovementDescription
   sub-element: WxCondition
   sub-element: FeatureCollection
   sub-element: AreaOfInterest
   sub-element: WxProcess
   sub-element: System
   sub-element: AbstractCoverageDomain
   sub-element: MultiPoint
   sub-element: AbstractCoverage
   sub-element: Observation
   sub-element: ObservationCollection
other complex property name: parameter
   sub-element: Count
   sub-element: Quantity
   sub-element: Time
   sub-element: Boolean
   sub-element: Category
   sub-element: Text
   sub-element: QuantityRange
   sub-element: CountRange
   sub-element: TimeRange
   sub-element: DataRecord
sub-element: SimpleDataRecord
sub-element: ConditionalData
sub-element: ConditionalValue
sub-element: Position
sub-element: Vector
sub-element: GeoLocationArea
sub-element: Envelope
sub-element: NormalizedCurve
sub-element: DataArray
sub-element: SquareMatrix
sub-element: Curve
other complex property name: result
other complex property name: validTime
        sub-element: TimeAggregate
feature name : Shower
        other complex property name: metaDataProperty
        sub-element: GenericMetaData
        simple property name: description
        simple property name: identifier
        simple property name: name
other complex property name: boundedBy
        sub-element: Envelope
        sub-element: Null
geometry property name : location
other complex property name: coverage
        sub-element: PercentageRange
geometry property name : extentOf
simple property name: intensity
other complex property name: movement
        sub-element: MovementDescription
other complex property name: contains
        sub-element: Precipitation
simple property name: embedded
simple property name: obscured
simple property name: widespread
feature name : Precipitation
        other complex property name: metaDataProperty
        sub-element: GenericMetaData
        simple property name: description
        simple property name: identifier
        simple property name: name
other complex property name: boundedBy
        sub-element: Envelope
        sub-element: Null
geometry property name : location
other complex property name: coverage
  sub-element: PercentageRange
geometry property name: extentOf
simple property name: intensity
other complex property name: movement
  sub-element: MovementDescription
simple property name: type
simple property name: isFreezing
feature name: Hydrometeor
other complex property name: metaDataProperty
  sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
geometry property name: location
other complex property name: coverage
  sub-element: PercentageRange
geometry property name: extentOf
simple property name: intensity
other complex property name: movement
  sub-element: MovementDescription
simple property name: type
simple property name: isFreezing
simple property name: partial
simple property name: patchy
simple property name: shallow
feature name: RadioactiveCloud
other complex property name: metaDataProperty
  sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
geometry property name: location
other complex property name: coverage
  sub-element: PercentageRange
geometry property name: extentOf
simple property name: intensity
other complex property name: movement
  sub-element: MovementDescription
feature name: Thunderstorm
  other complex property name: metaDataProperty
    sub-element: GenericMetaData
  simple property name: description
  simple property name: identifier
  simple property name: name
  other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
  geometry property name: location
  other complex property name: coverage
    sub-element: PercentageRange
  geometry property name: extentOf
  simple property name: intensity
  other complex property name: movement
    sub-element: MovementDescription
  other complex property name: contains
    sub-element: Precipitation
  simple property name: obscured
  simple property name: embedded
  simple property name: widespread

feature name: Lithometeor
  other complex property name: metaDataProperty
    sub-element: GenericMetaData
  simple property name: description
  simple property name: identifier
  simple property name: name
  other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
  geometry property name: location
  other complex property name: coverage
    sub-element: PercentageRange
  geometry property name: extentOf
  simple property name: intensity
  other complex property name: movement
    sub-element: MovementDescription
  simple property name: isBlowing
  simple property name: isLowDrifting
  simple property name: type

feature name: CloudCondition
  other complex property name: metaDataProperty
    sub-element: GenericMetaData
  simple property name: description
  simple property name: identifier
simple property name: name
other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
game property name: location
other complex property name: coverage
    sub-element: PercentageRange
game property name: extentOf
simple property name: intensity
other complex property name: movement
    sub-element: MovementDescription
simple property name: cloudAmount
simple property name: cloudType

feature name: MotionVector
other complex property name: metaDataProperty
    sub-element: GenericMetaData

simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
game property name: location
other complex property name: associatedFeature
    sub-element: DynamicFeature
    sub-element: Observation
    sub-element: FeatureCollection
    sub-element: Volcano
    sub-element: HorizontalVisibility
    sub-element: RVR
    sub-element: SurfaceDeposit
    sub-element: Runway
    sub-element: RunwaySurfaceState
    sub-element: RunwayDirection
    sub-element: MeteorologicalWatchOffice
    sub-element: Aircraft
    sub-element: Airspace
    sub-element: TropicalCycloneAdvisoryCentre
    sub-element: Aerodrome
    sub-element: Sea
    sub-element: Route
    sub-element: VolcanicAshAdvisoryCentre
    sub-element: TREND
    sub-element: MovementDescription
    sub-element: WxCondition
sub-element: FeatureCollection
sub-element: AreaOfInterest
sub-element: WxProcess
sub-element: System
sub-element: AbstractCoverageDomain
sub-element: MultiPoint
sub-element: AbstractCoverage
sub-element: Observation
sub-element: ObservationCollection

simple property name: changeIndicator
other complex property name: phenomenon
  sub-element: MountainObscuration
  sub-element: IFR
  sub-element: MountainWave
  sub-element: VolcanicActivity
  sub-element: TropicalCyclone
  sub-element: OtherPhenomenon
  sub-element: Shower
  sub-element: Precipitation
  sub-element: Hydrometeor
  sub-element: Lithometeor

other complex property name: obsOrFcstTime
  sub-element: TimeAggregate

other complex property name: validTime
  sub-element: TimeAggregate

simple property name: position
other complex property name: speed
  sub-element: Speed
other complex property name: direction
  sub-element: Angle

feature name : MotionVectors
  other complex property name: metaDataProperty
    sub-element: GenericMetaData
  simple property name: description
  simple property name: identifier
  simple property name: name
  other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null

geometry property name : location
other complex property name: associatedFeature
  sub-element: DynamicFeature
  sub-element: Observation
  sub-element: FeatureCollection
  sub-element: Volcano
sub-element: HorizontalVisibility
sub-element: RVR
sub-element: SurfaceDeposit
sub-element: Runway
sub-element: RunwaySurfaceState
sub-element: RunwayDirection
sub-element: MeteorologicalWatchOffice
sub-element: Aircraft
sub-element: Airspace
sub-element: TropicalCycloneAdvisoryCentre
sub-element: Aerodrome
sub-element: Sea
sub-element: Route
sub-element: VolcanicAshAdvisoryCentre
sub-element: TREND
sub-element: MovementDescription
sub-element: WxCondition
sub-element: FeatureCollection
sub-element: AreaOfInterest
sub-element: WxProcess
sub-element: System
sub-element: AbstractCoverageDomain
sub-element: MultiPoint
sub-element: AbstractCoverage
sub-element: Observation
sub-element: ObservationCollection

simple property name: changeIndicator
other complex property name: phenomenon
  sub-element: MountainObscuration
  sub-element: IFR
  sub-element: MountainWave
  sub-element: VolcanicActivity
  sub-element: TropicalCyclone
  sub-element: OtherPhenomenon
  sub-element: Shower
  sub-element: Precipitation
  sub-element: Hydrometeor
  sub-element: Lithometeor

other complex property name: obsOrFcstTime
  sub-element: TimeAggregate

other complex property name: validTime
  sub-element: TimeAggregate

other complex property name: vector
  sub-element: MotionVector

feature name : Contour
other complex property name: metaDataProperty
  sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
geometry property name: location
other complex property name: associatedFeature
  sub-element: DynamicFeature
  sub-element: Observation
  sub-element: FeatureCollection
  sub-element: Volcano
  sub-element: HorizontalVisibility
  sub-element: RVR
  sub-element: SurfaceDeposit
  sub-element: Runway
  sub-element: RunwaySurfaceState
  sub-element: RunwayDirection
  sub-element: MeteorologicalWatchOffice
  sub-element: Aircraft
  sub-element: Airspace
  sub-element: TropicalCycloneAdvisoryCentre
  sub-element: Aerodrome
  sub-element: Sea
  sub-element: Route
  sub-element: VolcanicAshAdvisoryCentre
  sub-element: TREND
  sub-element: MovementDescription
  sub-element: WxCondition
  sub-element: FeatureCollection
  sub-element: AreaOfInterest
  sub-element: WxProcess
  sub-element: System
  sub-element: AbstractCoverageDomain
  sub-element: MultiPoint
  sub-element: AbstractCoverage
  sub-element: Observation
  sub-element: ObservationCollection
simple property name: changeIndicator
other complex property name: phenomenon
  sub-element: MountainObscuration
  sub-element: IFR
  sub-element: MountainWave
sub-element: VolcanicActivity
sub-element: TropicalCyclone
sub-element: OtherPhenomenon
sub-element: Shower
sub-element: Precipitation
sub-element: Hydrometeor
sub-element: Lithometeor
other complex property name: obsOrFctTime
sub-element: TimeAggregate
other complex property name: validTime
sub-element: TimeAggregate
simple property name: contourValue
geometry property name : geometry

feature name : PointDomain
other complex property name: metaDataProperty
sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
sub-element: Envelope
sub-element: Null
geometry property name : location
simple property name: time
simple property name: location

feature name : AbstractCoverageDomain
other complex property name: metaDataProperty
sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
sub-element: Envelope
sub-element: Null
geometry property name : location

feature name : PointTimeSeriesDomain
other complex property name: metaDataProperty
sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
sub-element: Envelope
sub-element: Null
geometry property name : location
simple property name: timePositionList
simple property name: location

feature name: PointCollectionDomain
other complex property name: metaDataProperty
  sub-element: GenericMetaData
  simple property name: description
  simple property name: identifier
  simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null

geometry property name: location
simple property name: time
simple property name: locationList

feature name: MultiPoint
other complex property name: metaDataProperty
  sub-element: GenericMetaData
  simple property name: description
  simple property name: identifier
  simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null

geometry property name: location

feature name: DiscreteCoverage
other complex property name: metaDataProperty
  sub-element: GenericMetaData
  simple property name: description
  simple property name: identifier
  simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null

geometry property name: location
other complex property name: domainSet
  sub-element: PointDomain
  sub-element: ProfileDomain
  sub-element: PointTimeSeriesDomain
  sub-element: TrajectoryDomain
  sub-element: PointCollectionDomain
  sub-element: AreaDomain
  sub-element: ProfileTimeSeriesDomain

other complex property name: rangeSet
  sub-element: ValueArray
  sub-element: BooleanList
sub-element: CategoryList
sub-element: CountList
sub-element: QuantityList
sub-element: DataBlock
sub-element: File

feature name : ProfileDomain
other complex property name: metaDataProperty
sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
sub-element: Envelope
sub-element: Null
geometry property name : location
simple property name: time
simple property name: locationZ
simple property name: location

feature name : TrajectoryDomain
other complex property name: metaDataProperty
sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
sub-element: Envelope
sub-element: Null
geometry property name : location
simple property name: coordinateList

feature name : AreaDomain
other complex property name: metaDataProperty
sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
sub-element: Envelope
sub-element: Null
geometry property name : location
simple property name: time

feature name : ProfileTimeSeriesDomain
other complex property name: metaDataProperty
sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
geometry property name: location
simple property name: timePositionList
simple property name: locationZ
simple property name: location
feature name: AbstractCoverage
other complex property name: metaDataProperty
    sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
geometry property name: location
other complex property name: domainSet
    sub-element: PointDomain
    sub-element: ProfileDomain
    sub-element: PointTimeSeriesDomain
    sub-element: TrajectoryDomain
    sub-element: PointCollectionDomain
    sub-element: AreaDomain
    sub-element: ProfileTimeSeriesDomain
other complex property name: rangeSet
    sub-element: ValueArray
    sub-element: BooleanList
    sub-element: CategoryList
    sub-element: CountList
    sub-element: QuantityList
    sub-element: DataBlock
    sub-element: File
feature name: ProfileCoverage
other complex property name: metaDataProperty
    sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
geometry property name: location
other complex property name: domainSet
sub-element: PointDomain
sub-element: ProfileDomain
sub-element: PointTimeSeriesDomain
sub-element: TrajectoryDomain
sub-element: PointCollectionDomain
sub-element: AreaDomain
sub-element: ProfileTimeSeriesDomain
other complex property name: rangeSet
sub-element: ValueArray
sub-element: BooleanList
sub-element: CategoryList
sub-element: CountList
sub-element: QuantityList
sub-element: DataBlock
sub-element: File

feature name : ProfileTimeSeriesCoverage
other complex property name: metaDataProperty
sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
sub-element: Envelope
sub-element: Null

geometry property name : location
other complex property name: domainSet
sub-element: PointDomain
sub-element: ProfileDomain
sub-element: PointTimeSeriesDomain
sub-element: TrajectoryDomain
sub-element: PointCollectionDomain
sub-element: AreaDomain
sub-element: ProfileTimeSeriesDomain
other complex property name: rangeSet
sub-element: ValueArray
sub-element: BooleanList
sub-element: CategoryList
sub-element: CountList
sub-element: QuantityList
sub-element: DataBlock
sub-element: File

feature name : PointCollectionCoverage
other complex property name: metaDataProperty
sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
guideline property name: location
other complex property name: domainSet
  sub-element: PointDomain
  sub-element: ProfileDomain
  sub-element: PointTimeSeriesDomain
  sub-element: TrajectoryDomain
  sub-element: PointCollectionDomain
  sub-element: AreaDomain
  sub-element: ProfileTimeSeriesDomain
other complex property name: rangeSet
  sub-element: ValueArray
  sub-element: BooleanList
  sub-element: CategoryList
  sub-element: CountList
  sub-element: QuantityList
  sub-element: DataBlock
  sub-element: File

feature name: TrajectoryCoverage
  other complex property name: metaDataProperty
    sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
guideline property name: location
other complex property name: domainSet
  sub-element: PointDomain
  sub-element: ProfileDomain
  sub-element: PointTimeSeriesDomain
  sub-element: TrajectoryDomain
  sub-element: PointCollectionDomain
  sub-element: AreaDomain
  sub-element: ProfileTimeSeriesDomain
other complex property name: rangeSet
  sub-element: ValueArray
  sub-element: BooleanList
  sub-element: CategoryList
  sub-element: CountList
feature name: PointTimeSeriesCoverage
  other complex property name: metaDataProperty
  sub-element: GenericMetaData
    simple property name: description
    simple property name: identifier
    simple property name: name
    other complex property name: boundedBy
      sub-element: Envelope
      sub-element: Null
    geometry property name: location
  other complex property name: domainSet
    sub-element: PointDomain
    sub-element: ProfileDomain
    sub-element: PointTimeSeriesDomain
    sub-element: TrajectoryDomain
    sub-element: PointCollectionDomain
    sub-element: AreaDomain
    sub-element: ProfileTimeSeriesDomain
  other complex property name: rangeSet
    sub-element: ValueArray
    sub-element: BooleanList
    sub-element: CategoryList
    sub-element: CountList
    sub-element: QuantityList
    sub-element: DataBlock
    sub-element: File

feature name: AreaCoverage
  other complex property name: metaDataProperty
  sub-element: GenericMetaData
    simple property name: description
    simple property name: identifier
    simple property name: name
  other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
  geometry property name: location
  other complex property name: domainSet
    sub-element: PointDomain
    sub-element: ProfileDomain
    sub-element: PointTimeSeriesDomain
    sub-element: TrajectoryDomain
    sub-element: PointCollectionDomain
    sub-element: AreaDomain
    sub-element: ProfileTimeSeriesDomain
sub-element: AreaDomain
sub-element: ProfileTimeSeriesDomain
other complex property name: rangeSet
sub-element: ValueArray
sub-element: BooleanList
sub-element: CategoryList
sub-element: CountList
sub-element: QuantityList
sub-element: DataBlock
sub-element: File
geometry property name: extent
feature name: PointCoverage
other complex property name: metaDataProperty
sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
sub-element: Envelope
sub-element: Null
geometry property name: location
other complex property name: domainSet
sub-element: PointDomain
sub-element: ProfileDomain
sub-element: PointTimeSeriesDomain
sub-element: TrajectoryDomain
sub-element: PointCollectionDomain
sub-element: AreaDomain
sub-element: ProfileTimeSeriesDomain
other complex property name: rangeSet
sub-element: ValueArray
sub-element: BooleanList
sub-element: CategoryList
sub-element: CountList
sub-element: QuantityList
sub-element: DataBlock
sub-element: File
feature name: Observation
other complex property name: metaDataProperty
sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
sub-element: Envelope
sub-element: Null
geometry property name: location
other complex property name: metadata
  sub-element: MD_Metadata
other complex property name: samplingTime
  sub-element: TimeAggregate
other complex property name: resultTime
  sub-element: TimeAggregate
other complex property name: procedure
  sub-element: ProcessChain
  sub-element: ProcessModel
  sub-element: DataSource
  sub-element: Component
  sub-element: System
  sub-element: ComponentArray
  sub-element: Process
other complex property name: resultQuality
other complex property name: observedProperty
  sub-element: Phenomenon
other complex property name: featureOfInterest
  sub-element: DynamicFeature
  sub-element: Observation
  sub-element: FeatureCollection
  sub-element: Volcano
  sub-element: HorizontalVisibility
  sub-element: RVR
  sub-element: SurfaceDeposit
  sub-element: Runway
  sub-element: RunwaySurfaceState
  sub-element: RunwayDirection
  sub-element: MeteorologicalWatchOffice
  sub-element: Aircraft
  sub-element: Airspace
  sub-element: TropicalCycloneAdvisoryCentre
  sub-element: Aerodrome
  sub-element: Sea
  sub-element: Route
  sub-element: VolcanicAshAdvisoryCentre
  sub-element: TREND
  sub-element: MovementDescription
  sub-element: WxCondition
  sub-element: FeatureCollection
  sub-element: AreaOfInterest
  sub-element: WxProcess
  sub-element: System
sub-element: AbstractCoverageDomain
sub-element: MultiPoint
sub-element: AbstractCoverage
sub-element: Observation
sub-element: ObservationCollection
other complex property name: parameter
sub-element: Count
sub-element: Quantity
sub-element: Time
sub-element: Boolean
sub-element: Category
sub-element: Text
sub-element: QuantityRange
sub-element: CountRange
sub-element: TimeRange
sub-element: DataRecord
sub-element: SimpleDataRecord
sub-element: ConditionalData
sub-element: ConditionalValue
sub-element: Position
sub-element: Vector
sub-element: GeoLocationArea
sub-element: Envelope
sub-element: NormalizedCurve
sub-element: DataArray
sub-element: SquareMatrix
sub-element: Curve
other complex property name: result
feature name : ObservationCollection
other complex property name: metaDataProperty
sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
sub-element: Envelope
sub-element: Null
geometry property name : location
other complex property name: member
sub-element: Observation
feature name : CV_AbstractDiscreteCoverage
other complex property name: metaDataProperty
sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
geometry property name : location
other complex property name: domainExtent
    sub-element: EX_Extent

feature name : CV_DiscreteCoverage
other complex property name: metaDataProperty
    sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
geometry property name : location
other complex property name: domainExtent
    sub-element: EX_Extent
other complex property name: element
    sub-element: CV_GeometryValuePair

feature name : CV_DiscretePointCoverage
other complex property name: metaDataProperty
    sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
geometry property name : location
other complex property name: domainExtent
    sub-element: EX_Extent
other complex property name: element
    sub-element: CV_PointValuePair

feature name : CV_DiscreteTimeInstantCoverage
other complex property name: metaDataProperty
    sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
    sub-element: Envelope
    sub-element: Null
geometry property name : location
other complex property name: domainExtent
  sub-element: EX_Extent
other complex property name: element
  sub-element: CV_TimeInstantValuePair

feature name : CV_DiscreteElementCoverage
other complex property name: metaDataProperty
  sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
geometry property name : location
other complex property name: domainExtent
  sub-element: EX_Extent
other complex property name: element
  sub-element: CV_ElementValuePair

feature name : CompactDiscreteCoverage
other complex property name: metaDataProperty
  sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
geometry property name : location
other complex property name: domainExtent
  sub-element: EX_Extent
other complex property name: element
  sub-element: CompactGeometryValuePair

feature name : CompactDiscretePointCoverage
other complex property name: metaDataProperty
  sub-element: GenericMetaData
simple property name: description
simple property name: identifier
simple property name: name
other complex property name: boundedBy
  sub-element: Envelope
  sub-element: Null
geometry property name : location
other complex property name: domainExtent
  sub-element: EX_Extent
other complex property name: element
sub-element: CompactPointValuePair
feature name : CompactDiscreteTimeCoverage
  other complex property name: metaDataProperty
    sub-element: GenericMetaData
      simple property name: description
      simple property name: identifier
      simple property name: name
    other complex property name: boundedBy
      sub-element: Envelope
        sub-element: Null
      geometry property name : location
    other complex property name: domainExtent
      sub-element: EX_Extent
    other complex property name: element
      sub-element: CompactTimeValuePair