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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>

OGC Document [11-139] "OWS-8 Summary Report" provides a summary of the OWS-8 testbed and is available for download:

https://portal.opengeospatial.org/files/?artifact_id=46176

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Review of the WXXS exchange schemas

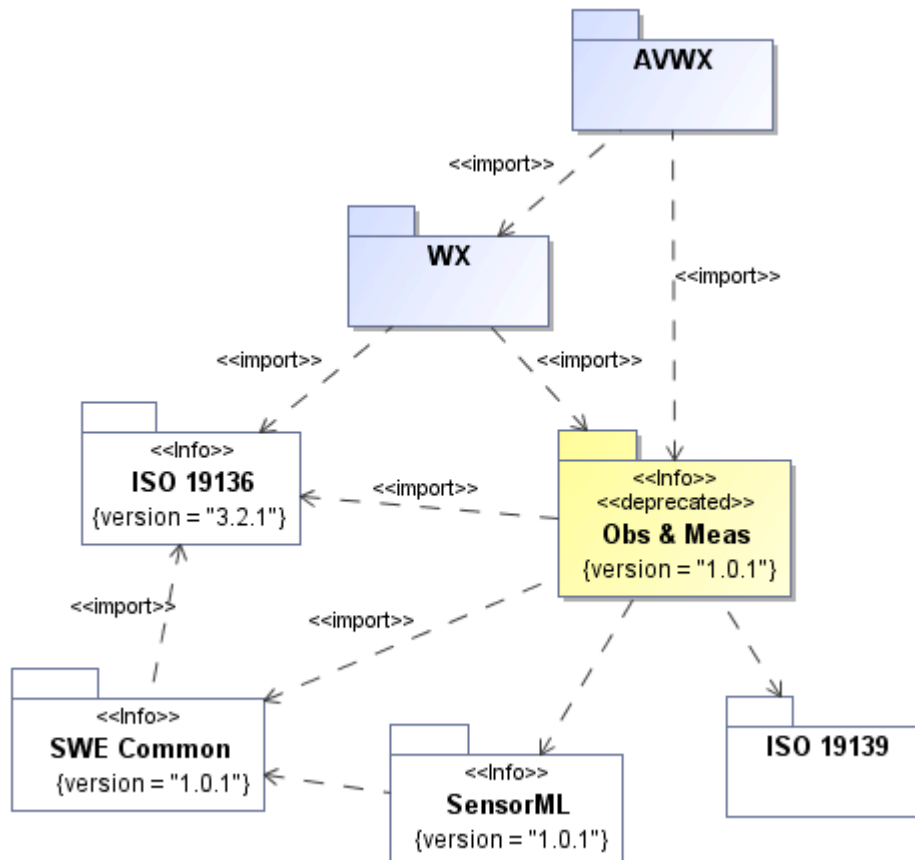
Purpose

This aim of this review is to assess the 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 set¹).

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.

```
<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)

```
<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.

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

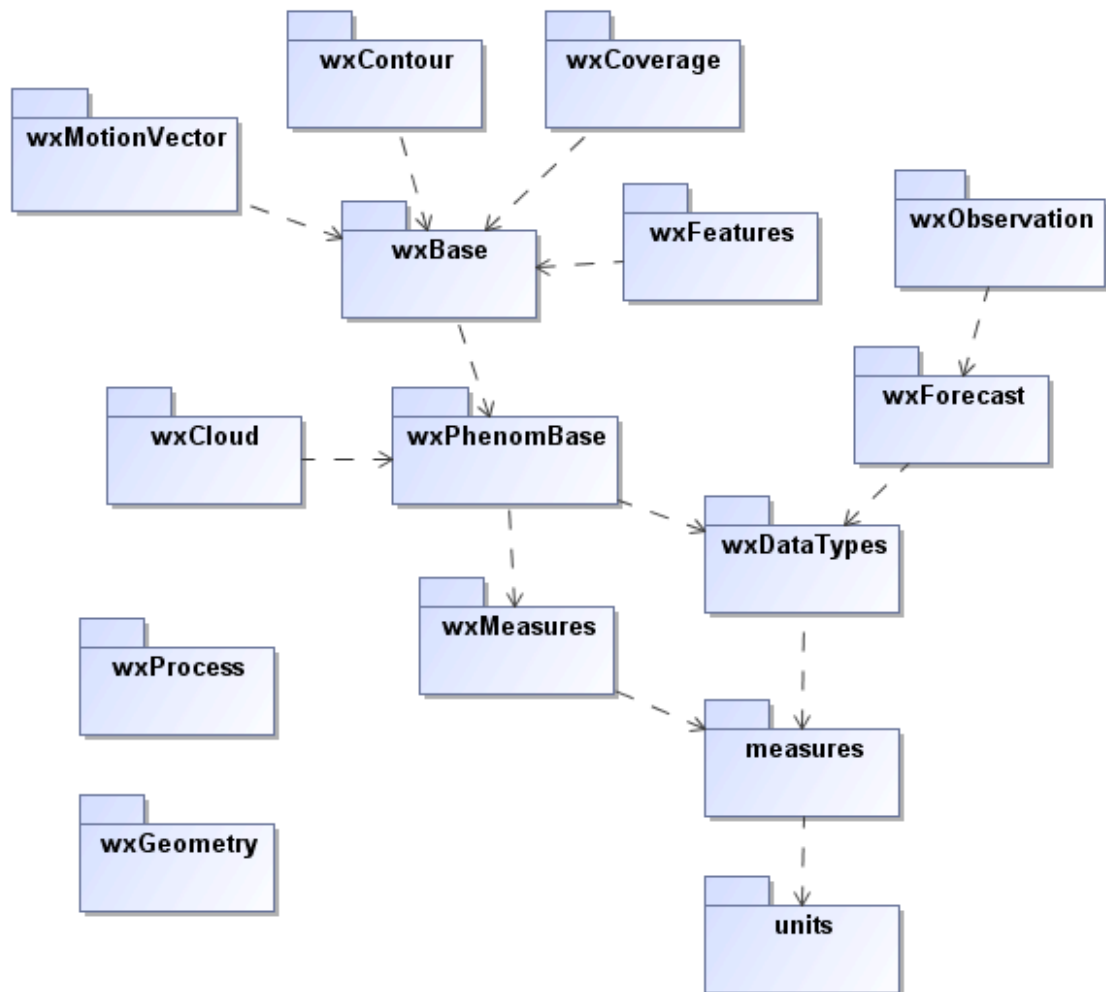
2. GML naming violation (wxPhenomBase): VerticallyBoundedPhenomenon. This element declaration does not adhere to the naming convention for abstract elements. **Fix:** Change name to “AbstractVerticallyBoundedPhenomenon”.
3. GML naming violation (wxCoverage.xsd): domainSetPropertyType. Property type name 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 pointer²). **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 AbstractMeasureType 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):

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

² Alternative [XPointer schemes](#) might be used in some contexts.

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

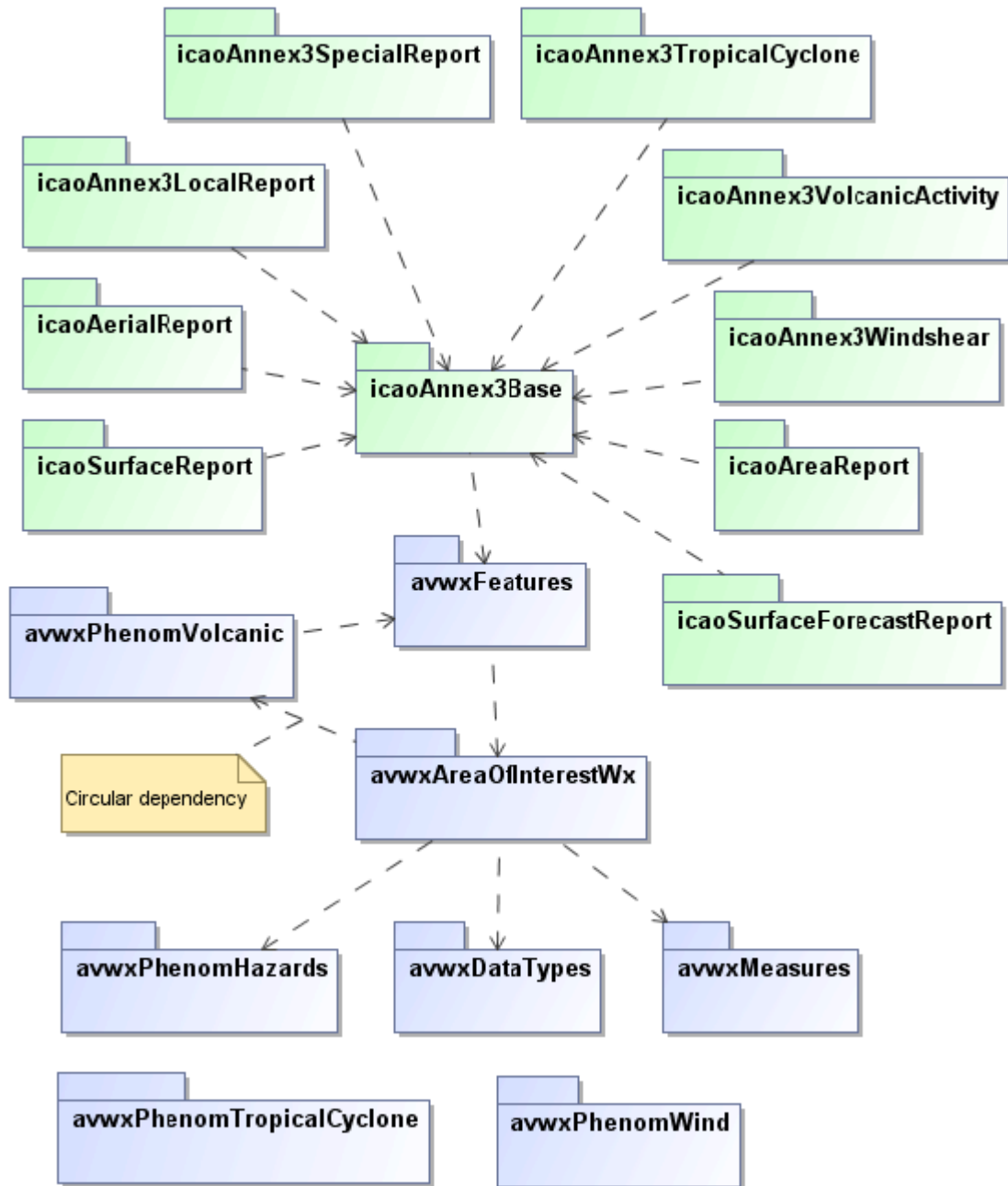
C. Aviation Weather Domain (AVWX)

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

- 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: components
 - sub-element: ComponentList
- other complex property name: connections
 - sub-element: ConnectionList
- 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
 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 : 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
 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 : 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
 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: 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
 geometry 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

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: obsOrFcstTime
 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

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 : 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

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

sub-element: Envelope
 sub-element: Null
 geometry property name : location
 simple property name: position
 simple property name: icaoCode
 simple property name: name
 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
 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 : 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

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: forecast
 sub-element: Forecast
 other complex property name: issuedBy
 sub-element: TropicalCycloneAdvisoryCentre
 other complex property name: observation
 sub-element: Observation
 simple property name: remarks
 simple property name: originTime
 simple property name: nextAdvisoryTime
 simple property name: number
 simple property name: nextAdvisoryText
 feature name : SurfaceForecastReport
 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: aerodromeWxForecast
 sub-element: Forecast
 other complex property name: appliesTo
 sub-element: Aerodrome
 simple property name: cancellation
 simple property name: issueTime
 simple property name: forecastMissing
 simple property name: stationId
 feature name : TAF
 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: aerodromeWxForecast
 sub-element: Forecast
 other complex property name: appliesTo
 sub-element: Aerodrome
 simple property name: cancellation
 simple property name: issueTime
 simple property name: forecastMissing
 simple property name: stationId
 simple property name: type
 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
 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 : 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
 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 : MDCR

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

- 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
 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: 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 : ReportProcess
 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 : Forecast
 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: 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
 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: 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
 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: 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: obsOrFcstTime
 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
 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 : 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
 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 : 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
 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