



International Civil Aviation Organization

INFORMATION PAPER

**SIXTEENTH MEETING OF THE ASIA/PACIFIC METEOROLOGICAL
INFORMATION EXCHANGE WORKING GROUP (MET/IE WG/16)**

Bangkok, Thailand, 19 – 21 March 2018

Agenda Item 4: Meteorological information exchange in digital form

IWXXM EXCHANGE TEST BETWEEN CHINA AND HONG KONG CHINA

(Presented by China and Hong Kong China)

SUMMARY

This paper presents the result of a test on exchanging IWXXM OPMET bulletins over AMHS between China and Hong Kong China.

1. INTRODUCTION

1.1 To prepare for meeting the proposed mandatory requirement in ICAO Annex 3 on the exchange of IWXXM OPMET bulletins starting from Nov 2020, China and Hong Kong China conducted an IWXXM exchanged test in December 2017.

2. DISCUSSION

Test messages and test setup

2.1 The test involved bulletins of METAR, TAF and SIGMET coded in IWXXM-2 generated by the Aviation Meteorological Centre of Civil Aviation Administration of China (CAAC) and the Hong Kong Observatory (HKO). Table 1 below showed the type of IWXXM messages used in the test and the required bulletin headers according to Table B7 of WMO GTS Manual (<http://wis.wmo.int/file=3558>). Examples of METAR bulletins generated by Beijing and Hong Kong respectively for the IWXXM exchange test were available in Attachment I.

Table 1: Types of OPMET message used in the IWXXM exchange test and required bulletin headers.

Bulletin Header	China		Hong Kong China	
	TAC	IWXXM	TAC	IWXXM
METAR	SACI	LACI	SAHK	LAHK
TAF (valid \geq 12 hours)	FTCI	LTCI	FTHK	LTHK
TAF (valid $<$ 12 hours)	FCCI	LCCI	---	---
WS SIGMET	WSC I	LSCI	WSHK	LSHK

2.2 IWXXM test bulletins sent between Beijing and Hong Kong were compressed in ZIP format and transmitted as an attachment via the FTBP of an AMHS message.

2.3 Figure 1 shows the configuration of AMHS systems used in the test. A Virtual Private Network (VPN) connection over Internet was set up between AMHS (Message Transfer Agent) MTA of CAAC at Beijing and the test AMHS MTA of Hong Kong Civil Aviation Department (HKCAD) in Hong Kong. Both AMHS MTAs supported exchange of AMHS message with FTBP. IWXXM bulletins prepared by HKO were sent to HKCAD's testing AMHS system via a Simple Object Access Protocol (SOAP) interface.

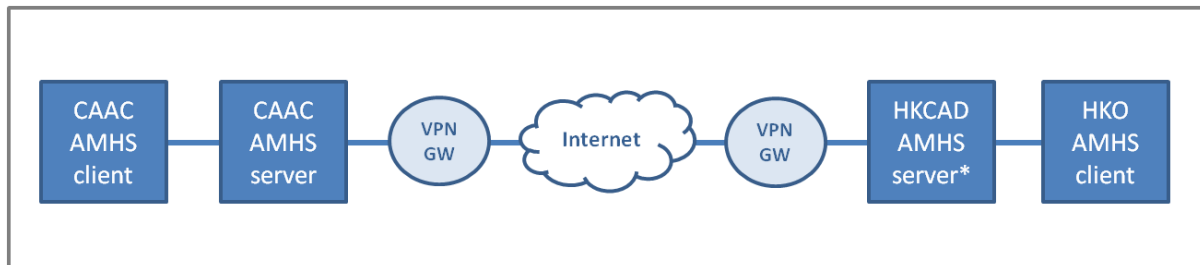


Figure 1: Configuration of AMHS systems between Beijing and Hong Kong connected through VPN Gateway (VPN GW) during the test. (*Test AMHS server)

Test results

2.4 All IWXXM messages sent from Hong Kong (AMHS addresses: VHHHHKOA (HKO) and VHHHMHSA (HKCAD)) were successfully received at Beijing (AMHS address: ZBXXMHAA) and vice versa.

2.5 Extra tests showed that single AMHS message containing multiple IWXXM attachments could also be exchanged smoothly between Beijing and Hong Kong.

2.6 Messages with large size attachment of about 900KB had also been exchanged successfully between Beijing and Hong Kong.

2.7 The uncompressed IWXXM bulletins had been validated at the receiving end using CRUX (Command-line Refuter of Unshapely XML, an IWXXM validator). All received IWXXM bulletins were successfully validated.

The way forward

2.8 Routine test using live MET data was planned to test the reliability of exchanging IWXXM bulletins over AMHS between China and Hong Kong China.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper; and
- b) discuss any relevant matters as appropriate.

Bulletin 1 : A sample METAR bulletin in IWXXM format generated and sent by CAAC

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<collect:MeteorologicalBulletin xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://icao.int/iwxxm/2.1 http://schemas.wmo.int/iwxxm/2.1/iwxxm.xsd
http://def.wmo.int/metce/2013 http://schemas.wmo.int/metce/1.2/metce.xsd
http://www.opengis.net/samplingSpatial/2.0
http://schemas.opengis.net/samplingSpatial/2.0/spatialSamplingFeature.xsd
http://def.wmo.int/collect/2014 http://schemas.wmo.int/collect/1.2/collect.xsd"
xmlns:gml="http://www.opengis.net/gml/3.2" xmlns:xlink="http://www.w3.org/1999/xlink"
xmlns:airxm="http://www.airxm.aero/schema/5.1.1" xmlns:iwxxm="http://icao.int/iwxxm/2.1"
xmlns:om="http://www.opengis.net/om/2.0" xmlns:gco="http://www.isotc211.org/2005/gco"
xmlns:gmd="http://www.isotc211.org/2005/gmd" xmlns:gts="http://www.isotc211.org/2005/gts"
xmlns:metce="http://def.wmo.int/metce/2013" xmlns:opm="http://def.wmo.int/opm/2013"
xmlns:sf="http://www.opengis.net/sampling/2.0"
xmlns:sams="http://www.opengis.net/samplingSpatial/2.0"
xmlns:collect="http://def.wmo.int/collect/2014" gml:id="bulletin-metar-ZBBB-20171207120000Z">
  <collect:meteorologicalInformation>
    <iwxxm:METAR status="NORMAL" automatedStation="false" permissibleUsage="OPERATIONAL"
gml:id="metar-ZBAA-uuid-fc1cb510-fd7b-4e65-8d13-d71e78676b26Z">
      <iwxxm:observation>
        <om:OM_Observation gml:id="obsuuid-c75f3cef-1290-4224-846b-f5f7484679f6Z">
          <om:type xlink:href="http://codes.wmo.int/49-2/observation-
type/iwxxm/2.1/MeteorologicalAerodromeObservation"/>
          <om:phenomenonTime>
            <gml:TimeInstant gml:id="ti-201712120000Zuuid-e7b99aed-f43d-4aef-bb75-689359329f3d">
              <gml:timePosition>2017-12-12T00:00:00Z</gml:timePosition>
            </gml:TimeInstant>
          </om:phenomenonTime>
          <om:resultTime>
            <gml:TimeInstant gml:id="ti-201712120010Z-uuid-16a8be15-cd1e-4dcd-9219-fdb4cac3e535">
              <gml:timePosition>2017-12-12T00:10:00Z</gml:timePosition>
            </gml:TimeInstant>
          </om:resultTime>
          <om:procedure>
            <metce:Process gml:id="p-49-2-metaruuid-b19a822c-c937-4098-8ffa-2e37f7b9779e">
              <gml:description>WMO No. 49 Volume 2 Meteorological Service for International Air
Navigation APPENDIX 3 TECHNICAL METARIFICATIONS RELATED TO METEOROLOGICAL OBSERVATIONS AND
REPORTS</gml:description>
            </metce:Process>
          </om:procedure>
          <om:observedProperty xlink:href="http://codes.wmo.int/49-2/observable-
property/MeteorologicalAerodromeObservation"/>
          <om:featureOfInterest>
            <sams:SF_SpatialSamplingFeature gml:id="sfs-uuid-8421ab14-c2f8-44d4-8462-275b5fcd4578">
              <sf:type xlink:href="http://www.opengis.net/def/samplingFeatureType/OGC-
OM/2.0/SF_SamplingPoint"/>
              <sf:sampledFeature>
                <airxm:AirportHeliport gml:id="aerodrome-ZBAA">
                  <airxm:timeSlice>
                    <airxm:AirportHeliportTimeSlice gml:id="aerodrome-ZBAA-ts-uuid-27bc4f62-3fc4-4c13-8b97-
34c7c9623217">
                      <gml:validTime/>
                      <airxm:interpretation>SNAPSHOT</airxm:interpretation>
                      <airxm:designator>ZBAA</airxm:designator>
                      <airxm:name>DONLON/INTERNATIONAL</airxm:name>
                      <airxm:locationIndicatorICAO>ZBAA</airxm:locationIndicatorICAO>
                    </airxm:AirportHeliportTimeSlice>
                  </airxm:timeSlice>
                </airxm:AirportHeliport>
              </sf:sampledFeature>
            </sams:featureOfInterest>
          </om:featureOfInterest>
          <om:result>
            <iwxxm:MeteorologicalAerodromeObservationRecord cloudAndVisibilityOK="false"
gml:id="or1-uuid-01437b1b-c19d-4ba9-a0bc-47970934b271">
              <iwxxm:airTemperature uom="Cel">22.0</iwxxm:airTemperature>
              <iwxxm:dewpointTemperature uom="Cel">21.0</iwxxm:dewpointTemperature>
              <iwxxm:qnh uom="hPa">1009.0</iwxxm:qnh>
              <iwxxm:surfaceWind>
                <iwxxm:AerodromeSurfaceWind variableWindDirection="false">
                  <iwxxm:meanWindDirection uom="deg">10.0</iwxxm:meanWindDirection>
                  <iwxxm:meanWindSpeed uom="m/s">2.0</iwxxm:meanWindSpeed>
                  <iwxxm:extremeClockwiseWindDirection uom="deg">330.0</iwxxm:extremeClockwiseWindDirection>
                  <iwxxm:extremeCounterClockwiseWindDirection
uom="deg">30.0</iwxxm:extremeCounterClockwiseWindDirection>
                </iwxxm:AerodromeSurfaceWind>
              </iwxxm:MeteorologicalAerodromeObservationRecord>
            </om:result>
          </om:OM_Observation>
        </iwxm:observation>
      </iwxm:METAR>
    </collect:meteorologicalInformation>
  </collect:MeteorologicalBulletin>

```

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</iwxxm:AerodromeSurfaceWind>
  </iwxxm:surfaceWind>
  <iwxxm:visibility>
<iwxxm:AerodromeHorizontalVisibility>
  <iwxxm:prevailingVisibility uom="m">10000.0</iwxxm:prevailingVisibility>
</iwxxm:AerodromeHorizontalVisibility>
  </iwxxm:visibility>
  <iwxxm:presentWeather xlink:href="http://codes.wmo.int/306/4678/-SHRA"/>
  <iwxxm:cloud>
<iwxxm:AerodromeObservedClouds>
  <iwxxm:layer>
    <iwxxm:CloudLayer>
      <iwxxm:amount xlink:href="http://codes.wmo.int/bufr4/codeflag/0-20-008/1"/>
      <iwxxm:base uom="[ft_i]">4000.0</iwxxm:base>
    </iwxxm:CloudLayer>
  </iwxxm:layer>
</iwxxm:AerodromeObservedClouds>
  </iwxxm:cloud>
  </iwxxm:MeteorologicalAerodromeObservationRecord>
</om:result>
</om:OM_Observation>
</iwxxm:observation>
<iwxxm:trendForecast>
  <om:OM_Observation gml:id="trend-fcst-1-uuid-uuid-31af11f0-20ee-413e-9d58-3c2fca179772">
    <om:type xlink:href="http://codes.wmo.int/49-2/observation-
type/iwxxm/2.1/MeteorologicalAerodromeTrendForecast"/>
    <om:phenomenonTime>
      <gml:TimePeriod gml:id="tp-201712120040Z-201712120040Zuuid-7f0b9352-1532-4b73-91b7-
e5a379db0c2e">
        <gml:beginPosition>2017-12-12T00:40:00Z</gml:beginPosition>
        <gml:endPosition>2017-12-12T00:40:00Z</gml:endPosition>
      </gml:TimePeriod>
    </om:phenomenonTime>
    <om:resultTime xlink:href="#ti-201712120010Zuuid-efd0a78f-5f62-4cb6-978b-640a4630fe76"/>
    <om:procedure xlink:href="#p-49-2-metaruuid-4a627121-061c-49de-a239-8403916c08b5"/>
    <om:observedProperty xlink:href="http://codes.wmo.int/49-2/observable-
property/MeteorologicalAerodromeTrendForecast"/>
    <om:featureOfInterest xlink:href="#sfs-uuid-8421ab14-c2f8-44d4-8462-275b5fcd4578"/>
    <om:result>
      <iwxxm:MeteorologicalAerodromeTrendForecastRecord changeIndicator="BECOMING"
cloudAndVisibilityOK="false" gml:id="trend-fcst-record-03839-201712120040Z-201712120040Z">
        <iwxxm:forecastWeather xlink:href="http://codes.wmo.int/306/4678/-TSRA"/>
      </iwxxm:MeteorologicalAerodromeTrendForecastRecord>
    </om:result>
  </om:OM_Observation>
</iwxxm:trendForecast>
</iwxxm:METAR>
</collect:meteorologicalInformation>
<collect:meteorologicalInformation>
  <iwxxm:METAR status="NORMAL" automatedStation="false" permissibleUsage="OPERATIONAL"
gml:id="metar-ZBSJ-uuid-a79d6f11-52af-40f6-b33c-e98f4443e1e1Z">
    <iwxxm:observation>
      <om:OM_Observation gml:id="obsuuid-440a35eb-b478-4d14-ac49-7af141fcbefz">
        <om:type xlink:href="http://codes.wmo.int/49-2/observation-
type/iwxxm/2.1/MeteorologicalAerodromeObservation"/>
        <om:phenomenonTime>
          <gml:TimeInstant gml:id="ti-201712120000Zuuid-19116240-af7a-4d72-a3d0-22f3d571e58a">
            <gml:timePosition>2017-12-12T00:00:00Z</gml:timePosition>
          </gml:TimeInstant>
        </om:phenomenonTime>
        <om:resultTime>
          <gml:TimeInstant gml:id="ti-201712120010Z-uuid-fc587c68-0e84-48b5-a604-5253181215d8">
            <gml:timePosition>2017-12-12T00:10:00Z</gml:timePosition>
          </gml:TimeInstant>
        </om:resultTime>
        <om:procedure>
          <metce:Process gml:id="p-49-2-metaruuid-eb8474dc-a390-4864-ace8-04fa7f10f2ee">
            <gml:description>WMO No. 49 Volume 2 Meteorological Service for International Air
Navigation APPENDIX 3 TECHNICAL METARIFICATIONS RELATED TO METEOROLOGICAL OBSERVATIONS AND
REPORTS</gml:description>
          </metce:Process>
        </om:procedure>
        <om:observedProperty xlink:href="http://codes.wmo.int/49-2/observable-
property/MeteorologicalAerodromeObservation"/>
        <om:featureOfInterest>
          <sams:SF_SpatialSamplingFeature gml:id="sfs-uuid-3475bb3f-3306-43d7-8ced-a0e0e4aed339">
            <sf:type xlink:href="http://www.opengis.net/def/samplingFeatureType/OGC-
OM/2.0/SF_SamplingPoint"/>
            <sf:sampledFeature>
<aixm:AirportHeliport gml:id="aerodrome-ZBSJ">
  <aixm:timeSlice>
    <aixm:AirportHeliportTimeSlice gml:id="aerodrome-ZBSJ-ts-uuid-7b3bfb35-c57c-4e46-98a6-
e6cae29297d3">

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    <gml:validTime/>
    <aixm:interpretation>SNAPSHOT</aixm:interpretation>
    <aixm:designator>ZBSJ</aixm:designator>
    <aixm:name>DONLON/INTERNATIONAL</aixm:name>
    <aixm:locationIndicatorICAO>ZBSJ</aixm:locationIndicatorICAO>
  </aixm:AirportHeliportTimeSlice>
</aixm:timeSlice>
</aixm:AirportHeliport>
  </sf:sampledFeature>
  <sams:shape>
<gml:Point srsDimension="2" axisLabels="Lat Lon" gml:id="point-5225-3201-uuid-a52defeb-2009-4231-ab85-2d9e0c7828c1">
  <gml:pos>12.34 -12.34</gml:pos>
</gml:Point>
  </sams:shape>
  </sams:SF_SpatialSamplingFeature>
</om:featureOfInterest>
<om:result>
  <iwxxm:MeteorologicalAerodromeObservationRecord cloudAndVisibilityOK="false"
gml:id="or1-uuid-409c9710-864c-47af-bc21-9a3219874c1b">
  <iwxxm:airTemperature uom="Cel">25.0</iwxxm:airTemperature>
  <iwxxm:dewpointTemperature uom="Cel">25.0</iwxxm:dewpointTemperature>
  <iwxxm:qnh uom="hPa">1006.0</iwxxm:qnh>
  <iwxxm:surfaceWind>
<iwxxm:AerodromeSurfaceWind variableWindDirection="false">
  <iwxxm:meanWindDirection uom="deg">360.0</iwxxm:meanWindDirection>
  <iwxxm:meanWindSpeed uom="m/s">2.0</iwxxm:meanWindSpeed>
</iwxxm:AerodromeSurfaceWind>
  </iwxxm:surfaceWind>
  <iwxxm:visibility>
<iwxxm:AerodromeHorizontalVisibility>
  <iwxxm:prevailingVisibility uom="m">2500.0</iwxxm:prevailingVisibility>
</iwxxm:AerodromeHorizontalVisibility>
  </iwxxm:visibility>
  <iwxxm:presentWeather xlink:href="http://codes.wmo.int/306/4678/BR"/>
  <iwxxm:cloud
nilReason="http://codes.wmo.int/common/nil/nothingOfOperationalSignificance">
<iwxxm:AerodromeObservedClouds/>
  </iwxxm:cloud>
  </iwxxm:MeteorologicalAerodromeObservationRecord>
</om:result>
</om:OM_Observation>
</iwxxm:observation>
<iwxxm:trendForecast>
  <om:OM_Observation gml:id="trend-fcst-1-uuid-uuid-a2c91eb8-b74c-4a41-84cc-8458dc4d57ee">
  <om:type xlink:href="http://codes.wmo.int/49-2/observation-
type/iwxxm/2.1/MeteorologicalAerodromeTrendForecast"/>
  <om:phenomenonTime>
  <gml:TimePeriod gml:id="tp-201712120000z-201712120050Zuuid-517ff4b7-5922-470c-89c4-
8c89248bfcec">
    <gml:beginPosition>2017-12-12T00:00:00Z</gml:beginPosition>
    <gml:endPosition>2017-12-12T00:50:00Z</gml:endPosition>
  </gml:TimePeriod>
  </om:phenomenonTime>
  <om:resultTime xlink:href="#ti-201712120010Zuuid-56449395-3079-4cb7-b938-627b7aa25880"/>
  <om:procedure xlink:href="#p-49-2-metaruuid-40650f7c-49cc-4392-bd78-efcf7f0c570c"/>
  <om:observedProperty xlink:href="http://codes.wmo.int/49-2/observable-
property/MeteorologicalAerodromeTrendForecast"/>
  <om:featureOfInterest xlink:href="#sfs-uuid-3475bb3f-3306-43d7-8ced-a0e0e4aed339"/>
  <om:result>
  <iwxxm:MeteorologicalAerodromeTrendForecastRecord changeIndicator="BECOMING"
cloudAndVisibilityOK="false" gml:id="trend-fcst-record-03839-201712120000z-201712120050z">
  <iwxxm:prevailingVisibility uom="m">3000.0</iwxxm:prevailingVisibility>
  </iwxxm:MeteorologicalAerodromeTrendForecastRecord>
  </om:result>
</om:OM_Observation>
</iwxxm:trendForecast>
</iwxxm:METAR>
</collect:meteorologicalInformation>
.
.
<collect:bulletinIdentifier>A_SACI20ZBBB110200_C_ZBBB_20171211020000.xml</collect:bulletinIdentifier
>
</collect:MeteorologicalBulletin>

```

Bulletin 2 : A sample METAR bulletin in IWXXM format generated and sent by HKO

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<iwxxm:METAR xmlns:iwxxm="http://icao.int/iwxxm/2.1" xmlns:aixm="http://www.aixm.aero/schema/5.1.1"
xmlns:collect="http://def.wmo.int/collect/2014" xmlns:gco="http://www.isotc211.org/2005/gco"
xmlns:gmd="http://www.isotc211.org/2005/gmd" xmlns:gml="http://www.opengis.net/gml/3.2"
xmlns:gsm="http://www.isotc211.org/2005/gsm" xmlns:gss="http://www.isotc211.org/2005/gss"
xmlns:gts="http://www.isotc211.org/2005/gts" xmlns:metce="http://def.wmo.int/metce/2013"
xmlns:om="http://www.opengis.net/om/2.0" xmlns:opm="http://def.wmo.int/opm/2013"
xmlns:sam="http://www.opengis.net/sampling/2.0"
xmlns:sams="http://www.opengis.net/samplingSpatial/2.0" xmlns:xlink="http://www.w3.org/1999/xlink"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" gml:id="metar-VHHH-20171215000000Z"
permissibleUsage="OPERATIONAL" status="NORMAL" xsi:schemaLocation="http://icao.int/iwxxm/2.1
http://schemas.wmo.int/iwxxm/2.1/iwxxm.xsd http://def.wmo.int/metce/2013
http://schemas.wmo.int/metce/1.2/metce.xsd http://www.opengis.net/samplingSpatial/2.0
http://schemas.opengis.net/samplingSpatial/2.0/spatialSamplingFeature.xsd
http://def.wmo.int/collect/2014 http://schemas.wmo.int/collect/1.2/collect.xsd">
<!-- TAC: METAR VHHH 150000Z 10007KT 060V150 9999 FEW020 20/14 Q1020 NOSIG= -->
  <iwxxm:observation>
    <om:OM_Observation gml:id="observation-1">
      <om:type xlink:href="http://codes.wmo.int/49-2/observation-
type/IWXXM/2.1/MeteorologicalAerodromeObservation"/>
      <om:phenomenonTime>
        <gml:TimeInstant gml:id="ti-20171215000000Z">
          <gml:timePosition>2017-12-15T00:00:00.000Z</gml:timePosition>
        </gml:TimeInstant>
      </om:phenomenonTime>
      <om:resultTime xlink:href="#ti-20171215000000Z"/>
      <om:procedure>
        <metce:Process gml:id="p-49-2-metar">
          <gml:description>WMO No. 49 Volume 2 Meteorological Service for International Air
Navigation APPENDIX 3 TECHNICAL SPECIFICATIONS RELATED TO METEOROLOGICAL OBSERVATIONS AND
REPORTS</gml:description>
          </metce:Process>
        </om:procedure>
        <om:observedProperty xlink:href="http://codes.wmo.int/49-2/observable-
property/MeteorologicalAerodromeObservation"/>
        <om:featureOfInterest>
          <sams:SF_SpatialSamplingFeature gml:id="sampling-point-VHHH">
            <sam:type xlink:href="http://www.opengis.net/def/samplingFeatureType/OGC-
OM/2.0/SF_SamplingPoint"/>
            <sam:sampledFeature>
              <aixm:AirportHeliport gml:id="aerodrome-VHHH">
                <aixm:timeSlice>
                  <aixm:AirportHeliportTimeSlice gml:id="aerodrome-VHHH-ts">
                    <gml:validTime/>
                    <aixm:interpretation>BASELINE</aixm:interpretation>
                    <aixm:designator>VHHH</aixm:designator>
                    <aixm:name>HONG KONG/INTERNATIONAL</aixm:name>
                    <aixm:locationIndicatorICAO>VHHH</aixm:locationIndicatorICAO>
                  </aixm:AirportHeliportTimeSlice>
                </aixm:timeSlice>
              </aixm:AirportHeliport>
            </sam:sampledFeature>
            <sams:shape>
              <aixm:Point axisLabels="Lat Lon" gml:id="point-2218-11354" srsDimension="2"
srsName="http://www.opengis.net/def/crs/EPSSG/0/4326">
                <gml:pos>22.308919 113.914603</gml:pos>
              </aixm:Point>
            </sams:shape>
          </sams:SF_SpatialSamplingFeature>
        </om:featureOfInterest>
        <om:result>
          <iwxxm:MeteorologicalAerodromeObservationRecord cloudAndVisibilityOK="false"
gml:id="observation-record-1">
            <iwxxm:airTemperature uom="Cel">20</iwxxm:airTemperature>
            <iwxxm:dewpointTemperature uom="Cel">14</iwxxm:dewpointTemperature>
            <iwxxm:qnh uom="hPa">1020</iwxxm:qnh>
            <iwxxm:surfaceWind>
              <iwxxm:AerodromeSurfaceWind variableWindDirection="false">
                <iwxxm:meanWindDirection uom="deg">100</iwxxm:meanWindDirection>
                <iwxxm:meanWindSpeed uom="[kn_i]">7</iwxxm:meanWindSpeed>
                <iwxxm:extremeClockwiseWindDirection
uom="deg">60</iwxxm:extremeClockwiseWindDirection>
                <iwxxm:extremeCounterClockwiseWindDirection
uom="deg">150</iwxxm:extremeCounterClockwiseWindDirection>
              </iwxxm:AerodromeSurfaceWind>
            </iwxxm:surfaceWind>
            <iwxxm:visibility>
              <iwxxm:AerodromeHorizontalVisibility>
                <iwxxm:prevailingVisibility uom="m">10000</iwxxm:prevailingVisibility>
                <iwxxm:prevailingVisibilityOperator>ABOVE</iwxxm:prevailingVisibilityOperator>
              </iwxxm:AerodromeHorizontalVisibility>
            </iwxxm:visibility>
          </iwxxm:MeteorologicalAerodromeObservationRecord>
        </om:result>
      </om:OM_Observation>
    </iwxxm:observation>
  </!-- TAC: METAR VHHH 150000Z 10007KT 060V150 9999 FEW020 20/14 Q1020 NOSIG= -->
</iwxxm:METAR>
```

```
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</iwxxm:MeteorologicalAerodromeObservationRecord>
</om:result>
</om:OM_Observation>
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</iwxxm:METAR>
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