

Usage examples

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These examples follow the WOML release version 2011/11/15.

Stand-alone ColdFront Feature

```
<?xml version="1.0" encoding="UTF-8"?>
<womlswo:ColdFront
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:gml="http://www.opengis.net/gml/3.2"
  xmlns:womlcore="http://xml.fmi.fi/namespace/woml/core/2011/11/15"
  xmlns:womlswo="http://xml.fmi.fi/namespace/woml/swo/2011/11/15"
  xmlns:xlink="http://www.w3.org/1999/xlink"
  xsi:schemaLocation="http://xml.fmi.fi/namespace/woml/swo/2011/11/15 http://xml.fmi.fi/schema/woml/swo
/2011/11/15/woml-swo.xsd"
  gml:id="front-1">
  <gml:boundedBy>
    <gml:Envelope srsName="http://www.opengis.net/def/crs/EPSG/0/4326">
      <!-- lat, lon -->
      <gml:lowerCorner>63.1945 -7.6639</gml:lowerCorner>
      <gml:upperCorner>69.6897 11.3687</gml:upperCorner>
    </gml:Envelope>
  </gml:boundedBy>
  <gml:validTime>
    <gml:TimePeriod gml:id="time-id359506">
      <gml:beginPosition>2009-02-02T12:00:00Z</gml:beginPosition>
      <gml:endPosition>2009-02-03T12:00:00Z</gml:endPosition>
    </gml:TimePeriod>
  </gml:validTime>
  <womlcore:creationTime>2009-02-01T12:44:30Z</womlcore:creationTime>
  <womlcore:latestModificationTime >2009-02-01T12:44:30Z</womlcore:latestModificationTime>
  <womlcore:shortInfo xml:lang="FI-fi">Kylmä rintama</womlcore:shortInfo>
  <womlcore:shortInfo xml:lang="EN-en">A cold front</womlcore:shortInfo>
  <womlcore:longInfo xml:lang="FI-fi">Kuvausta koskien tätä kylmää rintamaa</womlcore:longInfo>
  <womlcore:longInfo xml:lang="EN-en">A description about this cold front</womlcore:longInfo>
  <womlcore:controlCurve>
```

```

<gml:Curve gml:id="curve-1" srsName="http://www.opengis.net/def/crs/EPSG/0/4326">
  <gml:segments>
    <gml:Bezier interpolation="polynomialSpline" isPolynomial="true">
      <!-- lat lon lat lon ... lat lon-->
      <gml:posList>63.1945 -7.6639 63.2023 -7.401 63.2572 -7.2757 63.2772 -7.1757</gml:
posList>

      <gml:degree>3</gml:degree>
      <gml:knot>
        <gml:Knot>
          <gml:value>1.0</gml:value>
          <gml:multiplicity>4</gml:multiplicity>
          <gml:weight>1.0</gml:weight>
        </gml:Knot>
      </gml:knot>
      <gml:knot>
        <gml:Knot>
          <gml:value>2.0</gml:value>
          <gml:multiplicity>4</gml:multiplicity>
          <gml:weight>1.0</gml:weight>
        </gml:Knot>
      </gml:knot>
    </gml:Bezier>
    <gml:Bezier interpolation="polynomialSpline" isPolynomial="true">
      <gml:posList>63.2772 -7.1757 63.3597 -6.6893 63.3032 -7.0757 63.3397 -6.6993</gml:
posList>

      <gml:degree>3</gml:degree>
      <gml:knot>
        <gml:Knot>
          <gml:value>1.0</gml:value>
          <gml:multiplicity>4</gml:multiplicity>
          <gml:weight>1.0</gml:weight>
        </gml:Knot>
      </gml:knot>
      <gml:knot>
        <gml:Knot>
          <gml:value>2.0</gml:value>
          <gml:multiplicity>4</gml:multiplicity>
          <gml:weight>1.0</gml:weight>
        </gml:Knot>
      </gml:knot>
    </gml:Bezier>
    <gml:Bezier interpolation="polynomialSpline" isPolynomial="true">
      <gml:posList>63.3397 -6.6993 63.4419 -6.2062 63.3797 -6.6693 63.4319 -6.4062</gml:
posList>

      <gml:degree>3</gml:degree>
      <gml:knot>
        <gml:Knot>
          <gml:value>1.0</gml:value>
          <gml:multiplicity>4</gml:multiplicity>
          <gml:weight>1.0</gml:weight>
        </gml:Knot>
      </gml:knot>
      <gml:knot>
        <gml:Knot>
          <gml:value>2.0</gml:value>
          <gml:multiplicity>4</gml:multiplicity>
          <gml:weight>1.0</gml:weight>
        </gml:Knot>
      </gml:knot>
    </gml:Bezier>
    <gml:Bezier interpolation="polynomialSpline" isPolynomial="true">
      <gml:posList>63.4319 -6.4062 63.5236 -5.7283 63.4819 -6.0062 63.5036 -5.5283</gml:
posList>

      <gml:degree>3</gml:degree>
      <gml:knot>
        <gml:Knot>
          <gml:value>1.0</gml:value>
          <gml:multiplicity>4</gml:multiplicity>
          <gml:weight>1.0</gml:weight>
        </gml:Knot>
      </gml:knot>
      <gml:knot>
        <gml:Knot>
          <gml:value>2.0</gml:value>
          <gml:multiplicity>4</gml:multiplicity>
          <gml:weight>1.0</gml:weight>
        </gml:Knot>
      </gml:knot>
    </gml:Bezier>
  </gml:segments>
</gml:Curve>

```

```

        </gml:Knot>
      </gml:knot>
    </gml:Bezier>
  </gml:segments>
</gml:Curve>
</womlcore:controlCurve>
</womlsw:ColdFront>

```

One ColdFront and WarmFront inside a WeatherForecast

```

<womlcore:WeatherForecast
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:gml="http://www.opengis.net/gml/3.2"
  xmlns:womlcore="http://xml.fmi.fi/namespace/woml/core/2011/11/15"
  xmlns:womlsw="http://xml.fmi.fi/namespace/woml/swo/2011/11/15"
  xmlns:xlink="http://www.w3.org/1999/xlink"
  xsi:schemaLocation="http://xml.fmi.fi/namespace/woml/swo/2011/11/15 http://xml.fmi.fi/schema/woml/swo/2011/11/15/woml-sw0.xsd"
  gml:id="fct-1">
  <gml:boundedBy>
    <gml:Envelope srsName="http://www.opengis.net/def/crs/EPSSG/0/4326">
      <!-- lat, lon -->
      <gml:lowerCorner>63.1945 -7.6639</gml:lowerCorner>
      <gml:upperCorner>69.6897 11.3687</gml:upperCorner>
    </gml:Envelope>
  </gml:boundedBy>
  <womlcore:member>
    <womlsw:ColdFront gml:id="front-1">
      <gml:boundedBy>
        <gml:Envelope srsName="http://www.opengis.net/def/crs/EPSSG/0/4326">
          <!-- lat, lon -->
          <gml:lowerCorner>63.1945 -7.6639</gml:lowerCorner>
          <gml:upperCorner>69.6897 11.3687</gml:upperCorner>
        </gml:Envelope>
      </gml:boundedBy>
      <gml:validTime>
        <gml:TimePeriod gml:id="time-2">
          <gml:beginPosition>2009-02-02T12:00:00Z</gml:beginPosition>
          <gml:endPosition>2009-02-03T12:00:00Z</gml:endPosition>
        </gml:TimePeriod>
      </gml:validTime>
      <womlcore:creationTime>2009-02-01T12:44:30Z</womlcore:creationTime>
      <womlcore:latestModificationTime>2009-02-01T12:44:30Z</womlcore:latestModificationTime>
      <womlcore:shortInfo xml:lang="FI-fi">Kylmä rintama</womlcore:shortInfo>
      <womlcore:shortInfo xml:lang="EN-en">A cold front</womlcore:shortInfo>
      <womlcore:longInfo xml:lang="FI-fi">Kuvausta koskien tätä kylmää rintamaa</womlcore:longInfo>
      <womlcore:longInfo xml:lang="EN-en">A description about this cold front</womlcore:longInfo>
      <womlcore:controlCurve>
        <gml:Curve gml:id="curve-1" srsName="http://www.opengis.net/def/crs/EPSSG/0/4326">
          <gml:segments>
            <gml:Bezier interpolation="polynomialSpline" isPolynomial="true">
              <!-- lat lon lat lon ... lat lon-->
              <gml:posList>63.1945 -7.6639 63.2023 -7.401 63.2572 -7.2757 63.2772 -7.1757<
/gml:posList>
              <gml:degree>3</gml:degree>
              <gml:knot>
                <gml:Knot>
                  <gml:value>1.0</gml:value>
                  <gml:multiplicity>4</gml:multiplicity>
                  <gml:weight>1.0</gml:weight>
                </gml:Knot>
              </gml:knot>
              <gml:knot>
                <gml:Knot>
                  <gml:value>2.0</gml:value>
                  <gml:multiplicity>4</gml:multiplicity>
                  <gml:weight>1.0</gml:weight>
                </gml:Knot>
              </gml:knot>
            </gml:Bezier>
          <gml:Bezier interpolation="polynomialSpline" isPolynomial="true">
            <gml:posList>63.2772 -7.1757 63.3597 -6.6893 63.3032 -7.0757 63.3397 -6.6993<
/gml:posList>
          </gml:Bezier>
        </gml:Curve>
      </womlcore:controlCurve>
    </womlsw:ColdFront>
  </womlcore:member>
</womlcore:WeatherForecast>

```

```

        <gml:degree>3</gml:degree>
        <gml:knot>
          <gml:Knot>
            <gml:value>1.0</gml:value>
            <gml:multiplicity>4</gml:multiplicity>
            <gml:weight>1.0</gml:weight>
          </gml:Knot>
        </gml:knot>
        <gml:knot>
          <gml:Knot>
            <gml:value>2.0</gml:value>
            <gml:multiplicity>4</gml:multiplicity>
            <gml:weight>1.0</gml:weight>
          </gml:Knot>
        </gml:knot>
      </gml:Bezier>
      <gml:Bezier interpolation="polynomialSpline" isPolynomial="true">
        <gml:posList>63.3397 -6.6993 63.4419 -6.2062 63.3797 -6.6693 63.4319 -6.4062<
/gml:posList>

        <gml:degree>3</gml:degree>
        <gml:knot>
          <gml:Knot>
            <gml:value>1.0</gml:value>
            <gml:multiplicity>4</gml:multiplicity>
            <gml:weight>1.0</gml:weight>
          </gml:Knot>
        </gml:knot>
        <gml:knot>
          <gml:Knot>
            <gml:value>2.0</gml:value>
            <gml:multiplicity>4</gml:multiplicity>
            <gml:weight>1.0</gml:weight>
          </gml:Knot>
        </gml:knot>
      </gml:Bezier>
      <gml:Bezier interpolation="polynomialSpline" isPolynomial="true">
        <gml:posList>63.4319 -6.4062 63.5236 -5.7283 63.4819 -6.0062 63.5036 -5.5283<
/gml:posList>

        <gml:degree>3</gml:degree>
        <gml:knot>
          <gml:Knot>
            <gml:value>1.0</gml:value>
            <gml:multiplicity>4</gml:multiplicity>
            <gml:weight>1.0</gml:weight>
          </gml:Knot>
        </gml:knot>
        <gml:knot>
          <gml:Knot>
            <gml:value>2.0</gml:value>
            <gml:multiplicity>4</gml:multiplicity>
            <gml:weight>1.0</gml:weight>
          </gml:Knot>
        </gml:knot>
      </gml:Bezier>
    </gml:segments>
  </gml:Curve>
</womlcore:controlCurve>
  <womlcore:endPointConnectsTo xlink:href="#sharedpoint-1"/>
</womlsws:ColdFront>
</womlcore:member>
<womlcore:member>
  <womlsws:WarmFront gml:id="front-2">
    <gml:boundedBy>
      <gml:Envelope srsName="http://www.opengis.net/def/crs/EPSSG/0/4326">
        <!-- lat, lon -->
        <gml:lowerCorner>63.1945 -7.6639</gml:lowerCorner>
        <gml:upperCorner>69.6897 11.3687</gml:upperCorner>
      </gml:Envelope>
    </gml:boundedBy>
    <gml:validTime>
      <gml:TimePeriod gml:id="time-3">
        <gml:beginPosition>2009-02-02T12:00:00Z</gml:beginPosition>
        <gml:endPosition>2009-02-03T12:00:00Z</gml:endPosition>
      </gml:TimePeriod>
    </gml:validTime>
    <womlcore:creationTime>2009-02-01T12:44:30Z</womlcore:creationTime>
  </womlsws:WarmFront>
</womlcore:member>

```

```

<womlcore:latestModificationTime>2009-02-01T12:44:30Z</womlcore:latestModificationTime>
<womlcore:shortInfo xml:lang="FI-fi">lämmin rintama</womlcore:shortInfo>
<womlcore:shortInfo xml:lang="EN-en">A warm front</womlcore:shortInfo>
<womlcore:longInfo xml:lang="FI-fi">Kuvausta koskien tätä lämmintä rintamaa</womlcore:longInfo>
<womlcore:longInfo xml:lang="EN-en">A description about this warm front</womlcore:longInfo>
<womlcore:controlCurve>
  <gml:Curve gml:id="curve-2" srsName="http://www.opengis.net/def/crs/EPSS/0/4326">
    <gml:segments>
      <gml:Bezier interpolation="polynomialSpline" isPolynomial="true">
        <!-- lat lon lat lon ... lat lon-->
        <gml:posList>63.1945 -7.6639 63.2023 -7.401 63.2572 -7.2757 63.2772 -7.1757<
/gml:posList>

        <gml:degree>3</gml:degree>
        <gml:knot>
          <gml:Knot>
            <gml:value>1.0</gml:value>
            <gml:multiplicity>4</gml:multiplicity>
            <gml:weight>1.0</gml:weight>
          </gml:Knot>
        </gml:knot>
        <gml:knot>
          <gml:Knot>
            <gml:value>2.0</gml:value>
            <gml:multiplicity>4</gml:multiplicity>
            <gml:weight>1.0</gml:weight>
          </gml:Knot>
        </gml:knot>
      </gml:Bezier>
      <gml:Bezier interpolation="polynomialSpline" isPolynomial="true">
        <gml:posList>63.2772 -7.1757 63.3597 -6.6893 63.3032 -7.0757 63.3397 -6.6993<
/gml:posList>

        <gml:degree>3</gml:degree>
        <gml:knot>
          <gml:Knot>
            <gml:value>1.0</gml:value>
            <gml:multiplicity>4</gml:multiplicity>
            <gml:weight>1.0</gml:weight>
          </gml:Knot>
        </gml:knot>
        <gml:knot>
          <gml:Knot>
            <gml:value>2.0</gml:value>
            <gml:multiplicity>4</gml:multiplicity>
            <gml:weight>1.0</gml:weight>
          </gml:Knot>
        </gml:knot>
      </gml:Bezier>
      <gml:Bezier interpolation="polynomialSpline" isPolynomial="true">
        <gml:posList>63.3397 -6.6993 63.4419 -6.2062 63.3797 -6.6693 63.4319 -6.4062<
/gml:posList>

        <gml:degree>3</gml:degree>
        <gml:knot>
          <gml:Knot>
            <gml:value>1.0</gml:value>
            <gml:multiplicity>4</gml:multiplicity>
            <gml:weight>1.0</gml:weight>
          </gml:Knot>
        </gml:knot>
        <gml:knot>
          <gml:Knot>
            <gml:value>2.0</gml:value>
            <gml:multiplicity>4</gml:multiplicity>
            <gml:weight>1.0</gml:weight>
          </gml:Knot>
        </gml:knot>
      </gml:Bezier>
      <gml:Bezier interpolation="polynomialSpline" isPolynomial="true">
        <gml:posList>63.4319 -6.4062 63.5236 -5.7283 63.4819 -6.0062 63.5036 -5.5283<
/gml:posList>

        <gml:degree>3</gml:degree>
        <gml:knot>
          <gml:Knot>
            <gml:value>1.0</gml:value>
            <gml:multiplicity>4</gml:multiplicity>
            <gml:weight>1.0</gml:weight>
          </gml:Knot>

```

```

        </gml:knot>
        <gml:knot>
            <gml:Knot>
                <gml:value>2.0</gml:value>
                <gml:multiplicity>4</gml:multiplicity>
                <gml:weight>1.0</gml:weight>
            </gml:Knot>
        </gml:knot>
    </gml:Bezier>
</gml:segments>
</gml:Curve>
</womlcore:controlCurve>
    <womlcore:startPointConnectsTo xlink:href="#sharedpoint-1"/>
</womlsws:WarmFront>
</womlcore:member>
<womlcore:creationTime>2009-02-01T12:44:30Z</womlcore:creationTime>
<womlcore:sharedObjects>
    <womlcore:ConnectionPoint srsName="http://www.opengis.net/def/crs/EPSSG/0/4326" gml:id="sharedpoint-
1">
        <gml:pos>63.1945 -7.6639</gml:pos>
    </womlcore:ConnectionPoint>
    <womlcore:GeographicRegion gml:id="reg-europe">
        <gml:name codeSpace="urn:metobject:gml:fi:fmi:region">europe</gml:name>
        <gml:boundedBy>
            <gml:Envelope srsName="http://www.opengis.net/def/crs/EPSSG/0/4326">
                <gml:lowerCorner>34.1917491721098 -24.1338947041854</gml:lowerCorner>
                <gml:upperCorner>71.35072212813091 39.78580791587787</gml:upperCorner>
            </gml:Envelope>
        </gml:boundedBy>
        <womlcore:boundary>
            <gml:LinearRing>
                <gml:posList>
                    34.24498197434621 9.907156299072678
                    34.51123360972705 20.91411541572156
                    34.84399197428478 28.91398254351208
                    35.78523540245252 39.13972716588274
                    46.66562709842991 39.78580791587787
                    52.54969759578679 39.57428351584159
                    60.77045575689296 39.14516931261758
                    65.79704048111873 39.21442795709487
                    71.17743726389149 39.44418201342263
                    71.35072212813091 33.52245369657199
                    70.90376493838633 15.67018961817616
                    70.32506815741047 -4.709782837749419
                    70.06004400795291 -22.23966088401448
                    64.55757017123533 -24.1338947041854
                    34.1917491721098 -21.23173183402058
                    34.24498197434621 9.907156299072678
                </gml:posList>
            </gml:LinearRing>
        </womlcore:boundary>
        <womlcore:regionId scheme="urn:someauthority:worldregion">europe</womlcore:regionId>
        <womlcore:localizedName xml:lang="FI-fi">Eurooppa</womlcore:localizedName>
        <womlcore:localizedName xml:lang="EN-en">Europe</womlcore:localizedName>
        <womlcore:localizedName xml:lang="SE-sv">Europa</womlcore:localizedName>
    </womlcore:GeographicRegion>
</womlcore:sharedObjects>
<gml:validTime>
    <gml:TimePeriod gml:id="time-1">
        <gml:beginPosition>2009-02-02T12:00:00Z</gml:beginPosition>
        <gml:endPosition>2009-02-03T12:00:00Z</gml:endPosition>
    </gml:TimePeriod>
</gml:validTime>
<womlcore:approval>
    <womlcore:Approval gml:id="appr-1">
        <womlcore:approvedBy>
            <womlcore:Authority gml:id="auth-1">
                <womlcore:authorityId>urn:auth:user:fi:fmi:ldap:role:chiefofdesk</womlcore:
authorityId>
                <womlcore:localizedName xml:lang="fi-FI">Ilmatieteen laitos, päivystävä meteorologi<
/womlcore:localizedName>
                <womlcore:localizedName xml:lang="en-US">Finnish Meteorological Institute, Chief of
Desk</womlcore:localizedName>
            </womlcore:Authority>
        </womlcore:approvedBy>
        <womlcore:approvalTime>2009-02-01T12:44:30Z</womlcore:approvalTime>
    </womlcore:Approval>
</womlcore:approval>

```

```
<womlcore:approvedFor>general_public_usage</womlcore:approvedFor>
</womlcore:Approval>
</womlcore:approval>
<womlcore:envelopedSignature>
  <dsig:Signature>
    <dsig:SignedInfo>
      <dsig:CanonicalizationMethod Algorithm="http://www.w3.org/TR/2001/REC-xml-c14n-20010315"/>
      <dsig:SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#dsa-sha1"/>
      <dsig:Reference URI="#fct-1">
        <dsig:Transforms>
          <dsig:Transform Algorithm="http://www.w3.org/2000/09/xmldsig#enveloped-signature"/>
        </dsig:Transforms>
        <dsig:DigestMethod Algorithm="http://www.w3.org/2001/04/xmllenc#sha256"/>
        <dsig:DigestValue>mo95+b1841Ats/mjwd3Qo2fUiSmQF7qo2mJmKk9msE=</dsig:DigestValue>
      </dsig:Reference>
    </dsig:SignedInfo>
    <dsig:SignatureValue>hhE6mpGB3xHZMegj22dM+BIB32J/MVveW4aZwr7GvRXLvYeJsrlz0A==</dsig:
SignatureValue>
    <dsig:KeyInfo>
      <dsig:X509Data>
        <dsig:X509SubjectName>CN=test.user@organization.org,OU=Dev,O=Acme,L=Helsinki,ST=Uusimaa,
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