Observation/ Characterization 2/ Provenance

(F.Bonnarel,CDS)

Contributors

- This status doesn't mean they all agree with all what I am presenting, but that their participation and comments helped me to present this.
- Mireille Louys, Anita M. S. Richards, François Bonnarel, Igor Chilingarian, Fabien Chereau, Andreas Wicenec, Jonathan Mc Dowell, Gerard Lemson, Alberto Micol, Peter Skoda
  (all above from Cambridge UK meeting)

  _____

  Juan de Dios Santander Vela,Nausicaa Delmotte, Miguel Cervino, Arnold Rots,Carlos Rodriguo, Gretchen Greene, Tamas Budavari, Alex Szalay, Bruno Rino, Thomas Boch, Doug Tody

Goals: satisfy use cases

- Characterization 1 and new sort of data: polarized data.
- Observation container : a use case for NVO footprint service. ---> see demo by Gretchen and Tamas tomorrow.
- Provenance: describing Filter transmission curve and access to Progenitors
- Characterization of complex data (« a la « WFPC2) and integration of spectral response

C:\Documents and Settings\Administrateur\Bureau\CHar2Prov\NVSSbis.xml - Windows Internet Explorer

C:\Documents and Settings\Administrateur\Bureau\CHar2Prov\NVSSbis.xml

Fichier Edition Affichage Favoris Outils ?

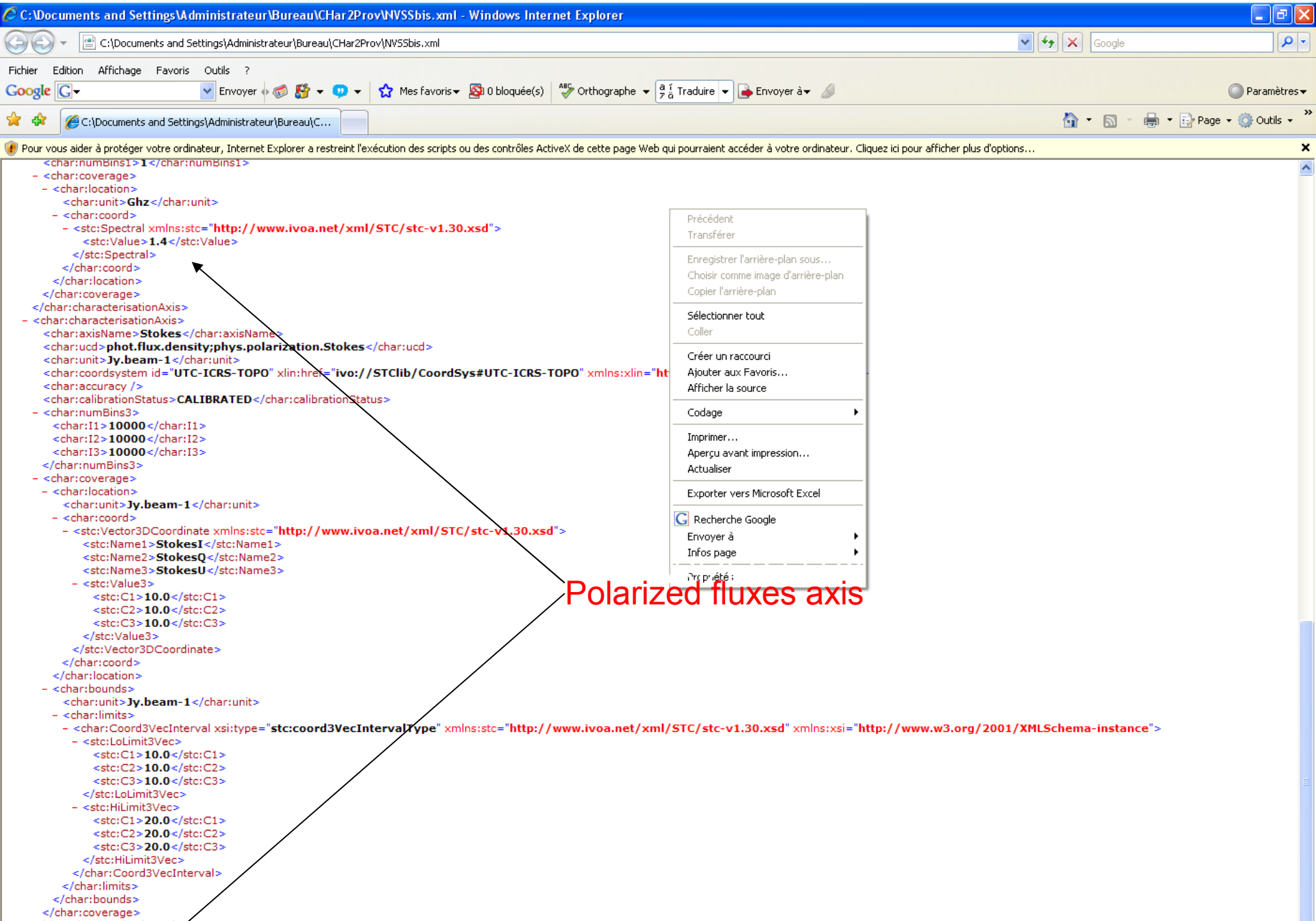
Google Envoyer Mes favoris 0 bloquée(s) Orthographe Traduire Envoyer à Paramètres

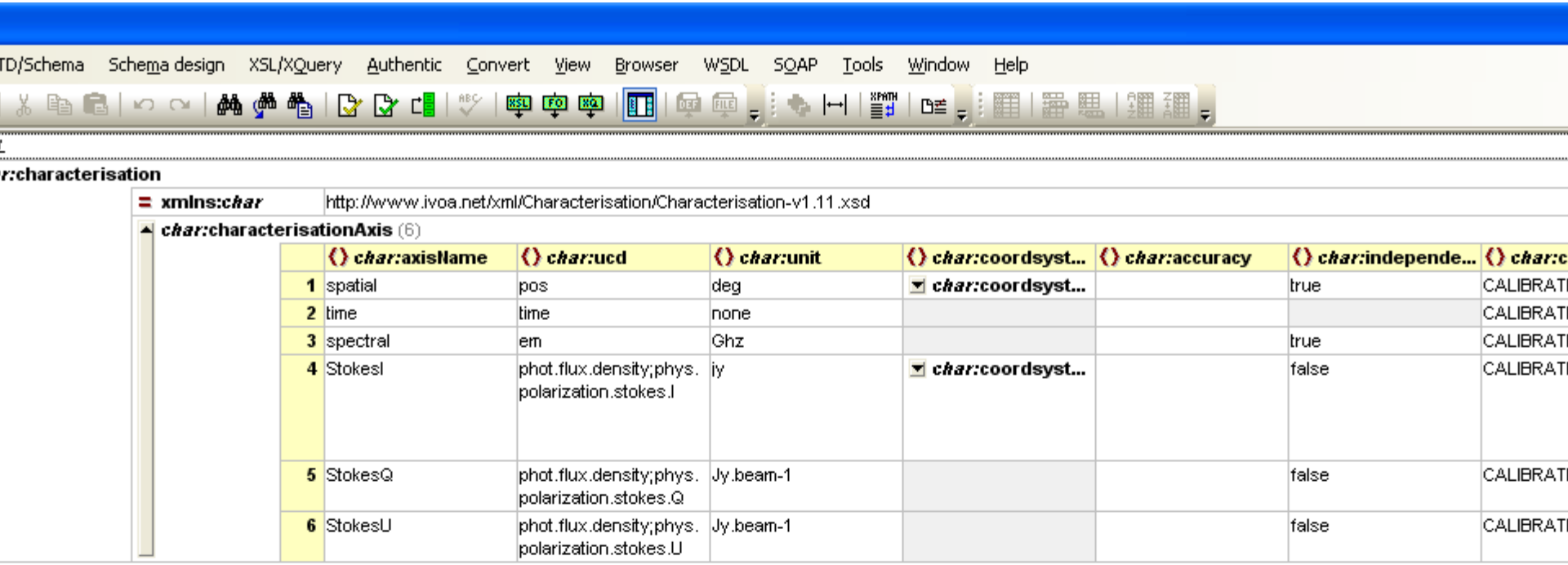
C:\Documents and Settings\Administrateur\Bureau\C... Page Outils

Pour vous aider à protéger votre ordinateur, Internet Explorer a restreint l'exécution des scripts ou des contrôles ActiveX de cette page Web qui pourraient accéder à votre ordinateur. Cliquez ici pour afficher plus d'options...

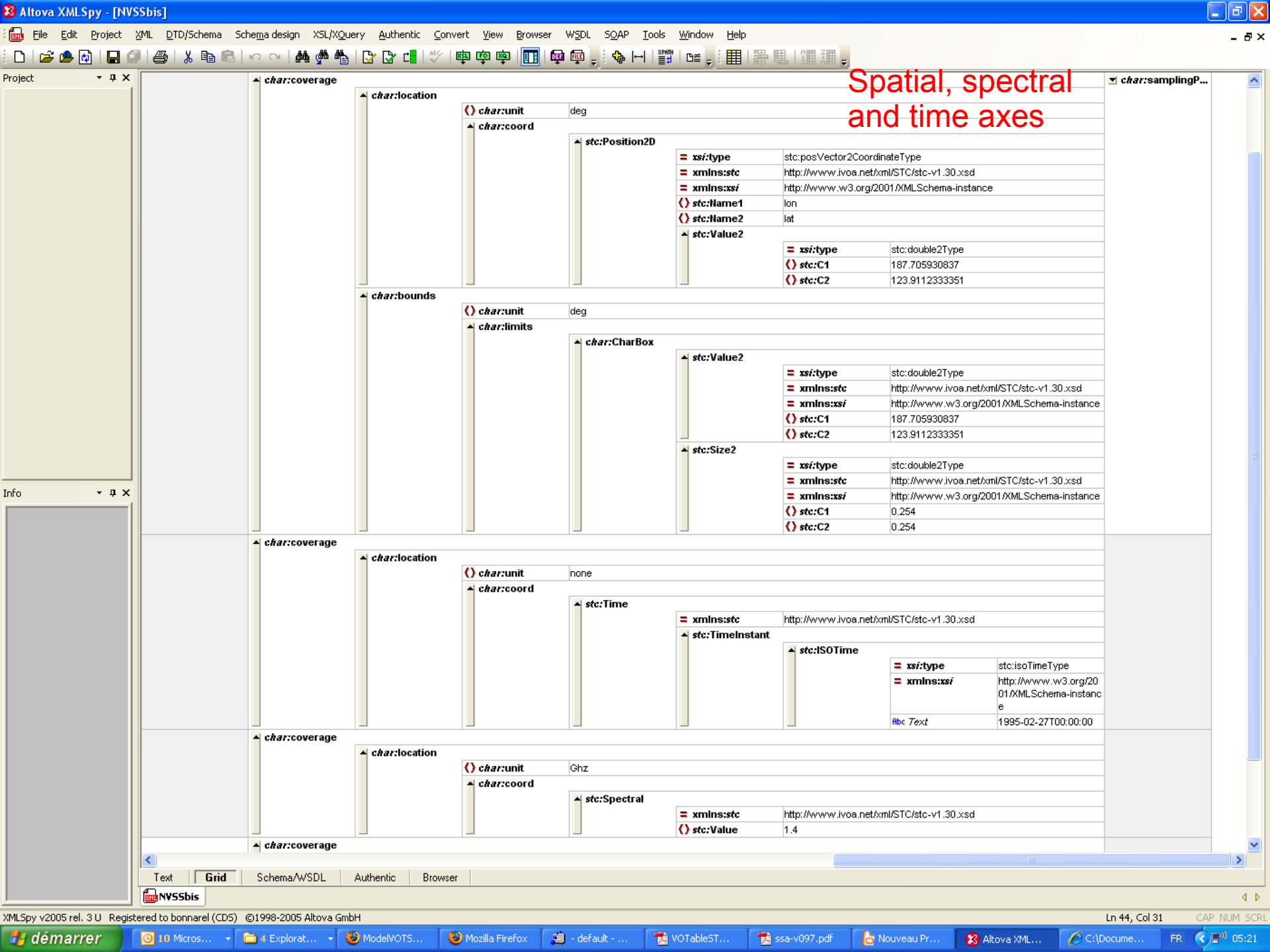

```
<?xml version="1.0" encoding="UTF-8" ?>
- <char:characterisation xmlns:char="http://www.ivoa.net/xml/Characterisation/Characterisation-v1.11.xsd">
  - <char:characterisationAxis>
      <char:axisName>spatial</char:axisName>
      <char:ucd>pos</char:ucd>
      <char:unit>deg</char:unit>
      <char:coordsystem id="TT-ICRS-TOPO" xlin:href="ivo://STClib/CoordSys#TT-ICRS-TOPO" xmlns:xlin="http://www.w3.org/1999/xlink" />
      <char:accuracy />
      <char:independentAxis>true</char:independentAxis>
      <char:calibrationStatus>CALIBRATED</char:calibrationStatus>
    - <char:numBins2>
        <char:I1>61</char:I1>
        <char:I2>61</char:I2>
      </char:numBins2>
      <char:undersamplingStatus>true</char:undersamplingStatus>
      <char:regularsamplingStatus>true</char:regularsamplingStatus>
    - <char:coverage>
      - <char:location>
          <char:unit>deg</char:unit>
        - <char:coord>
          - <stc:Position2D xsi:type="stc:posVector2CoordinateType" xmlns:stc="http://www.ivoa.net/xml/STC/stc-v1.30.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
              <stc:Name1>lon</stc:Name1>
              <stc:Name2>lat</stc:Name2>
            - <stc:Value2 xsi:type="stc:double2Type">
                <stc:C1>187.705930837</stc:C1>
                <stc:C2>123.9112333351</stc:C2>
              </stc:Value2>
            </stc:Position2D>
          </char:coord>
        </char:location>
      - <char:bounds>
          <char:unit>deg</char:unit>
        - <char:limits>
          - <char:CharBox>
            - <stc:Value2 xsi:type="stc:double2Type" xmlns:stc="http://www.ivoa.net/xml/STC/stc-v1.30.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
                <stc:C1>187.705930837</stc:C1>
                <stc:C2>123.9112333351</stc:C2>
              </stc:Value2>
            - <stc:Size2 xsi:type="stc:double2Type" xmlns:stc="http://www.ivoa.net/xml/STC/stc-v1.30.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
                <stc:C1>0.254</stc:C1>
                <stc:C2>0.254</stc:C2>
              </stc:Size2>
            </char:CharBox>
          </char:limits>
        </char:bounds>
      </char:coverage>
    - <char:samplingPrecision>
      - <char:samplingPrecisionRefVal>
          <char:unit>deg</char:unit>
        - <char:samplingPeriod>
            <stc:PixSize xsi:type="stc:double1Type" xmlns:stc="http://www.ivoa.net/xml/STC/stc-v1.30.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">0.41666</stc:PixSize>
          </char:samplingPeriod>
        </char:samplingPrecisionRefVal>
      </char:samplingPrecision>
    </char:characterisationAxis>
  - <char:characterisationAxis>
      <char:axisName>time</char:axisName>
      <char:ucd>time</char:ucd>
      <char:unit>none</char:unit>
      <char:accuracy />
```

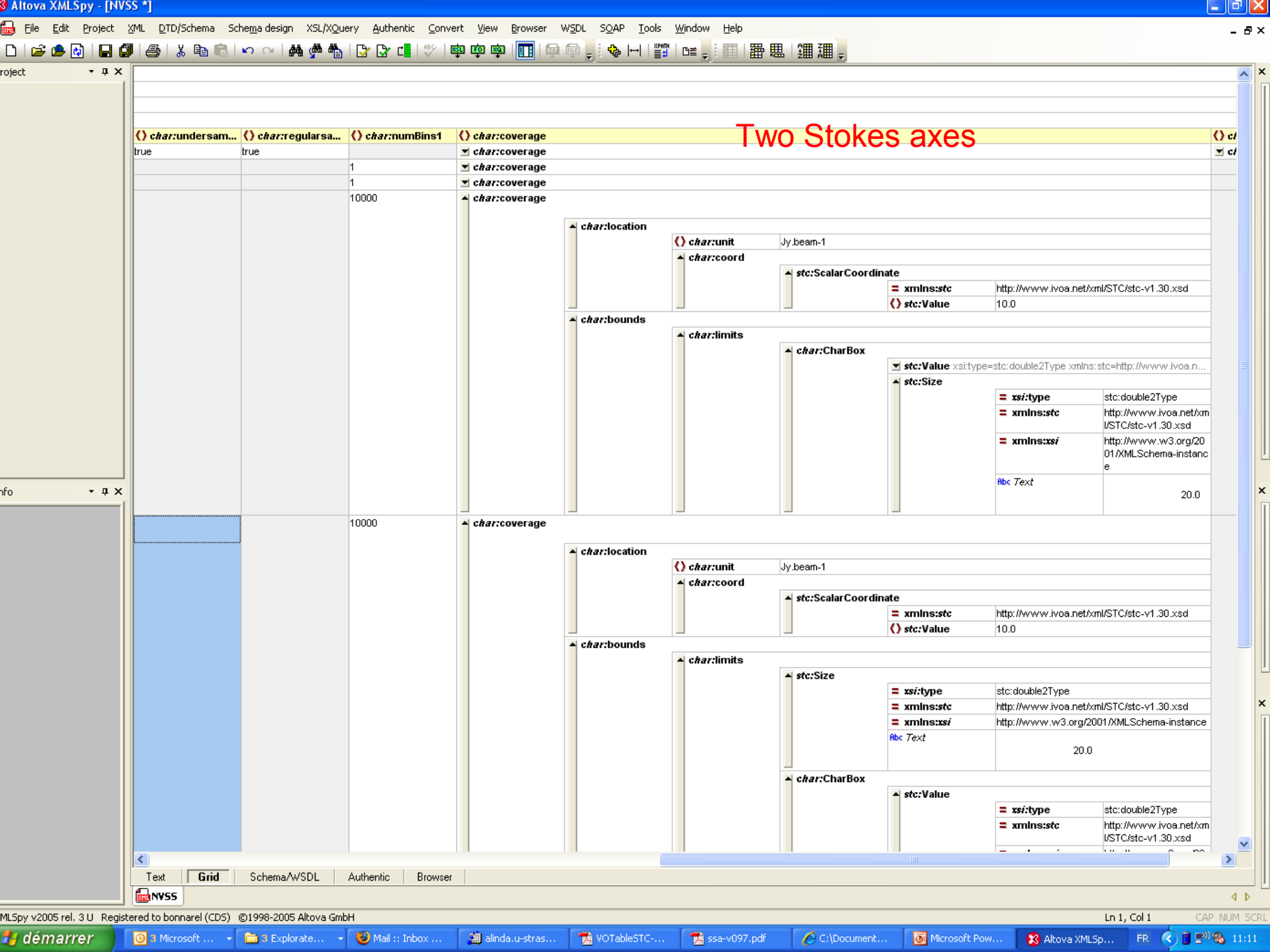

démarrer 10 Micros... 4 Explorat... ModelVOTS... Mozilla Firefox - default - ... VOTableST... ssa-v097.pdf Nouveau Pr... Altova XML... C:\Docume... FR 05:17

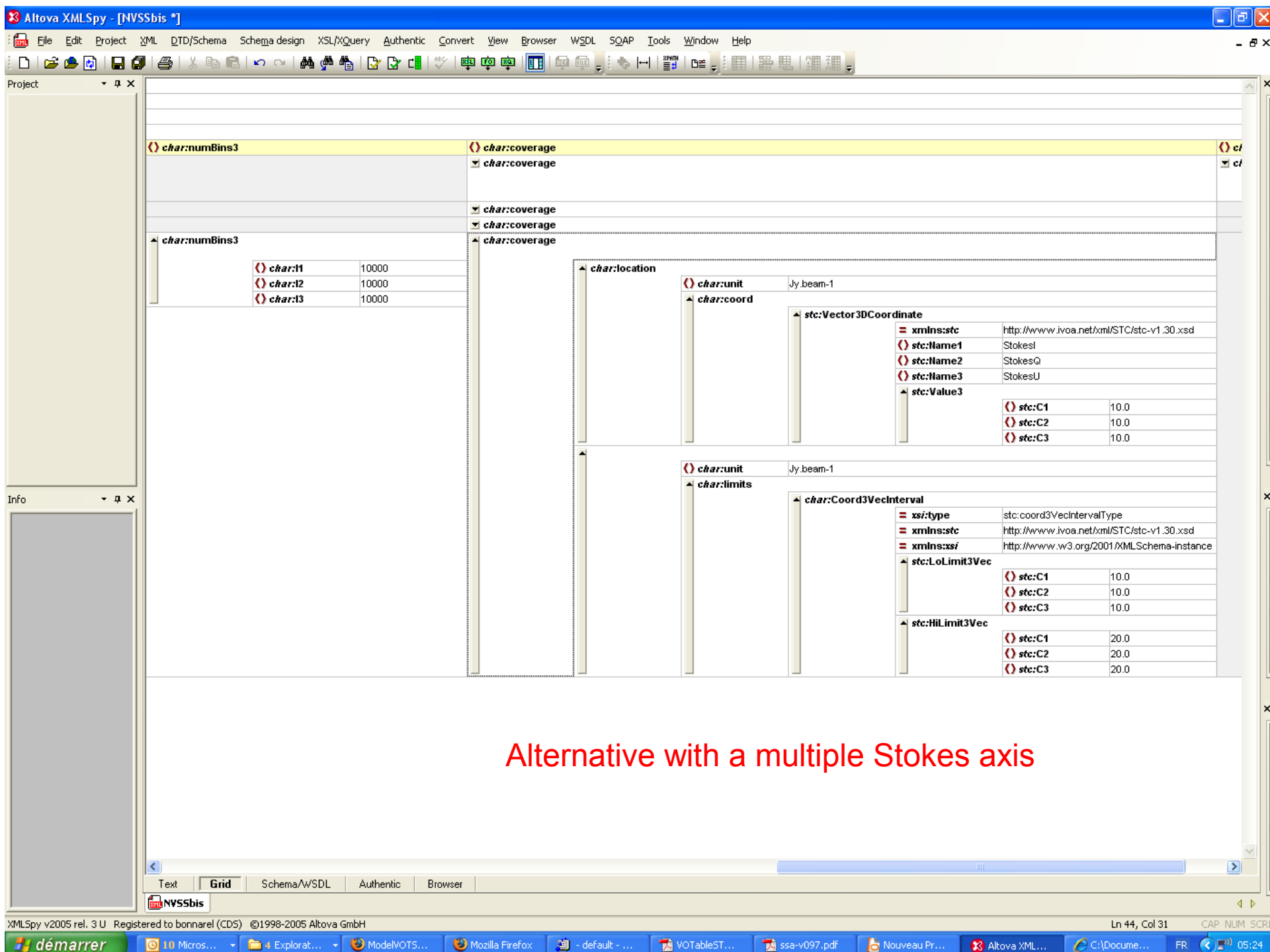

C:\Documents and Settings\Administrateur\Bureau\CHar2Prov\NVSSbis.xml - Windows Internet Explorer
Pour vous aider à protéger votre ordinateur, Internet Explorer a restreint l'exécution des scripts ou des contrôles ActiveX de cette page Web qui pourraient accéder à votre ordinateur. Cliquez ici pour afficher plus d'options...
<char:numBins1>1</char:numBins1>
<char:coverage>
<char:location>
<char:unit>Ghz</char:unit>
<char:coord>
<stc:Spectral xmlns:stc="http://www.ivoa.net/xml/STC/stc-v1.30.xsd">
<stc:Value>1.4</stc:Value>
</stc:Spectral>
</char:coord>
</char:location>
</char:coverage>
</char:characterisationAxis>
<char:characterisationAxis>
<char:axisName>Stokes</char:axisName>
<char:ucd>phot.flux.density;phys.polarization.Stokes</char:ucd>
<char:unit>Jy.beam-1</char:unit>
<char:coordsystem id="UTC-ICRS-TOPO" xlin:href="ivo://STClib/CoordSys#UTC-ICRS-TOPO" xmlns:xlin="ht
<char:accuracy />
<char:calibrationStatus>CALIBRATED</char:calibrationStatus>
<char:numBins3>
<char:I1>10000</char:I1>
<char:I2>10000</char:I2>
<char:I3>10000</char:I3>
</char:numBins3>
<char:coverage>
<char:location>
<char:unit>Jy.beam-1</char:unit>
<char:coord>
<stc:Vector3DCoordinate xmlns:stc="http://www.ivoa.net/xml/STC/stc-v1.30.xsd">
<stc:Name1>StokesI</stc:Name1>
<stc:Name2>StokesQ</stc:Name2>
<stc:Name3>StokesU</stc:Name3>
<stc:Value3>
<stc:C1>10.0</stc:C1>
<stc:C2>10.0</stc:C2>
<stc:C3>10.0</stc:C3>
</stc:Value3>
</stc:Vector3DCoordinate>
</char:coord>
</char:location>
<char:bounds>
<char:unit>Jy.beam-1</char:unit>
<char:limits>
<char:Coord3VecInterval xsi:type="stc:coord3VecIntervalType" xmlns:stc="http://www.ivoa.net/xml/STC/stc-v1.30.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<stc:LoLimit3Vec>
<stc:C1>10.0</stc:C1>
<stc:C2>10.0</stc:C2>
<stc:C3>10.0</stc:C3>
</stc:LoLimit3Vec>
<stc:HiLimit3Vec>
<stc:C1>20.0</stc:C1>
<stc:C2>20.0</stc:C2>
<stc:C3>20.0</stc:C3>
</stc:HiLimit3Vec>
</char:Coord3VecInterval>
</char:limits>
</char:bounds>
</char:coverage>
Précédent
Transférer
Enregistrer l'arrière-plan sous...
Choisir comme image d'arrière-plan
Copier l'arrière-plan
Sélectionner tout
Coller
Créer un raccourci
Ajouter aux Favoris...
Afficher la source
Codage
Imprimer...
Aperçu avant impression...
Actualiser
Exporter vers Microsoft Excel
Recherche Google
Envoyer à
Infos page
Polarized fluxes axis



Charac with 3 Stokes axes


Altova XMLSpy - [NVSSbis]
File Edit Project XML DTD/Schema Schema design XSL/XQuery Authentic Convert View Browser WSDL SOAP Tools Window Help
Project
Info
Spatial, spectral and time axes
char:coverage
char:location
char:unit deg
char:coord
stc:Position2D
xsi:type stc:posVector2CoordinateType
xmlns:stc http://www.ivoa.net/xml/STC/stc-v1.30.xsd
xmlns:xsi http://www.w3.org/2001/XMLSchema-instance
stc:Name1 lon
stc:Name2 lat
stc:Value2
xsi:type stc:double2Type
stc:C1 187.705930837
stc:C2 123.9112333351
char:bounds
char:unit deg
char:limits
char:CharBox
stc:Value2
xsi:type stc:double2Type
xmlns:stc http://www.ivoa.net/xml/STC/stc-v1.30.xsd
xmlns:xsi http://www.w3.org/2001/XMLSchema-instance
stc:C1 187.705930837
stc:C2 123.9112333351
stc:Size2
xsi:type stc:double2Type
xmlns:stc http://www.ivoa.net/xml/STC/stc-v1.30.xsd
xmlns:xsi http://www.w3.org/2001/XMLSchema-instance
stc:C1 0.254
stc:C2 0.254
char:coverage
char:location
char:unit none
char:coord
stc:Time
xmlns:stc http://www.ivoa.net/xml/STC/stc-v1.30.xsd
stc:TimeInstant
stc:ISOTime
xsi:type stc:isoTimeType
xmlns:xsi http://www.w3.org/2001/XMLSchema-instance
Text 1995-02-27T00:00:00
char:coverage
char:location
char:unit Ghz
char:coord
stc:Spectral
xmlns:stc http://www.ivoa.net/xml/STC/stc-v1.30.xsd
stc:Value 1.4
char:coverage
char:samplingP...
Text Grid Schema/WSDL Authentic Browser
NVSSbis
XMLSpy v2005 rel. 3 U Registered to bonnarel (CDS) ©1998-2005 Altova GmbH
Ln 44, Col 31
CAP NUM SCRL
démarrer
10 Micros...
4 Explorat...
ModelVOTS...
Mozilla Firefox
- default - ...
VOTableST...
ssa-v097.pdf
Nouveau Pr...
Altova XML...
C:\Docume...
FR
05:21


Altova XMLSpy - [NVSS *]
File Edit Project XML DTD/Schema Schema design XSL/XQuery Authentic Convert View Browser WSDL SOAP Tools Window Help
Two Stokes axes
char:undersam... char:regularsa... char:numBins1 char:coverage
true true char:coverage
1 char:coverage
1 char:coverage
10000 char:coverage
char:location
char:unit Jy.beam-1
char:coord
stc:ScalarCoordinate
xmlns:stc http://www.ivoa.net/xml/STC/stc-v1.30.xsd
stc:Value 10.0
char:bounds
char:limits
char:CharBox
stc:Value xsi:type=stc:double2Type xmlns:stc=http://www.ivoa.n...
stc:Size
xsi:type stc:double2Type
xmlns:stc http://www.ivoa.net/xml/STC/stc-v1.30.xsd
xmlns:xsi http://www.w3.org/2001/XMLSchema-instance
Text 20.0
10000 char:coverage
char:location
char:unit Jy.beam-1
char:coord
stc:ScalarCoordinate
xmlns:stc http://www.ivoa.net/xml/STC/stc-v1.30.xsd
stc:Value 10.0
char:bounds
char:limits
stc:Size
xsi:type stc:double2Type
xmlns:stc http://www.ivoa.net/xml/STC/stc-v1.30.xsd
xmlns:xsi http://www.w3.org/2001/XMLSchema-instance
Text 20.0
char:CharBox
stc:Value
xsi:type stc:double2Type
xmlns:stc http://www.ivoa.net/xml/STC/stc-v1.30.xsd
Text Grid Schema/WSDL Authentic Browser
NVSS
MLSpy v2005 rel. 3 U Registered to bonnarel (CDS) ©1998-2005 Altova GmbH
Ln 1, Col 1
démarrer
3 Microsoft ...
3 Explorate...
Mail :: Inbox ...
alinda.u-stras...
VOTableSTC-...
ssa-v097.pdf
C:\Document...
Microsoft Pow...
Altova XMLSp...
FR
11:11


Altova XMLSpy - [NVSSbis *]
File Edit Project XML DTD/Schema Schema design XSL/XQuery Authentic Convert View Browser WSDL SOAP Tools Window Help
Project
Info
char:numBins3
char:coverage
char:coverage
char:coverage
char:coverage
char:coverage
char:numBins3
char:I1 10000
char:I2 10000
char:I3 10000
char:location
char:unit Jy.beam-1
char:coord
stc:Vector3DCoordinate
xmlns:stc http://www.ivoa.net/xml/STC/stc-v1.30.xsd
stc:Name1 StokesI
stc:Name2 StokesQ
stc:Name3 StokesU
stc:Value3
stc:C1 10.0
stc:C2 10.0
stc:C3 10.0
char:unit Jy.beam-1
char:limits
char:Coord3VecInterval
xsi:type stc:coord3VecIntervalType
xmlns:stc http://www.ivoa.net/xml/STC/stc-v1.30.xsd
xmlns:xsi http://www.w3.org/2001/XMLSchema-instance
stc:LoLimit3Vec
stc:C1 10.0
stc:C2 10.0
stc:C3 10.0
stc:HiLimit3Vec
stc:C1 20.0
stc:C2 20.0
stc:C3 20.0
Alternative with a multiple Stokes axis
Text Grid Schema/WSDL Authentic Browser
NVSSbis
XMLSpy v2005 rel. 3 U Registered to bonnarel (CDS) ©1998-2005 Altova GmbH
Ln 44, Col 31
démarrer
Altova XML...
05:24

Polarization

- Should we choose the simple axis or multi axis mode ?
- What to put in polarized flux resolution and sampling ? (minimal meaningful difference)
- Do we need a « Polarization axis » enumerating the list of Polarization states available?

Altova XMLSpy - [Obs]

File Edit Project XML DTD/Schema Schema design XSL/XQuery Authentic Convert View Browser WSDL SOAP Tools Window Help

```
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
- <Observation xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:stc="http://www.ivoa.net/xml/STC/stc-v1.30.xsd"
  xmlns:cha="http://www.ivoa.net/xml/Characterisation/Characterisation-v1.11.xsd" xmlns:xlink="http://www.w3.org/1999/xlink" xmlns="http://www.ivoa.net/xml/Observation/Observation.xsd"
  xsi:schemaLocation="http://www.ivoa.net/xml/Observation/Observation.xsd Observation2.xsd">
   <!-- Curation as in Spectrum -->
  - <Curation>
     <Publisher>SAO</Publisher>
     <PublisherID>ivo://cfa.harvard.edu</PublisherID>
    - <Contact>
       <Name>Gretchen Greene/Tamas Budavari</Name>
       <Email>jcm@cfa.harvard.edu</Email>
     </Contact>
   </Curation>
   <!-- Data ID section -->
  - <DataID>
     <Title>Arp 220 Image</Title>
     <Creator>STScI/JHU</Creator>
     <DatasetID>ivo://stsci.edu/mast#10314</DatasetID>
     <Date>2003-12-31T14:00:02Z</Date>
     <Version>1</Version>
     <Instrument>BCS</Instrument>
     <Logo>http://stsci.edu/nvo/sdsslogo.jpg</Logo>
   </DataID>
   <!-- Access to the actual data -->
  - <Access>
     <acref>http://sdss.jhu.edu/images/sdss/10314.fits</acref>
     <format>application/fits</format>
   </Access>
   <!-- Characterisation -->
  - <char>
    - <cha:characterisationAxis>
       <cha:axisName>Sky</cha:axisName>
       <cha:ucd>pos.eq</cha:ucd>
       <cha:unit>deg</cha:unit>
       <cha:coordsystem id="TT-ICRS-TOPO" xlink:type="simple" xlink:href="ivo://STClib/CoordSys#TT-ICRS-TOPO" />
       <cha:independentAxis>true</cha:independentAxis>
       <cha:calibrationStatus>CALIBRATED</cha:calibrationStatus>
      - <cha:numBins2>
         <cha:I1>500</cha:I1>
         <cha:I2>500</cha:I2>
       </cha:numBins2>
       <cha:undersamplingStatus>false</cha:undersamplingStatus>
       <cha:regularsamplingStatus>true</cha:regularsamplingStatus>
      - <cha:coverage>
       - <cha:location>
         - <cha:coord coord_system_id="TT-ICRS-TOPO">
           - <stc:Position2D>
               <stc:Name1>RA</stc:Name1>
               <stc:Name2>Dec</stc:Name2>
             - <stc:Value2>
                 <stc:C1>132.4210</stc:C1>
                 <stc:C2>12.1232</stc:C2>
               </stc:Value2>
             </stc:Position2D>
           </cha:coord>
         </cha:location>
       - <cha:bounds>
           <cha:unit>arcsec</cha:unit>
           <cha:Extent>20</cha:Extent>
         - <cha:limits coord_system_id="TT-ICRS-TOPO">
             <cha:Coord2VecInterval />
           </cha:limits>
```

Ivo id

Curation,datasetID, Access

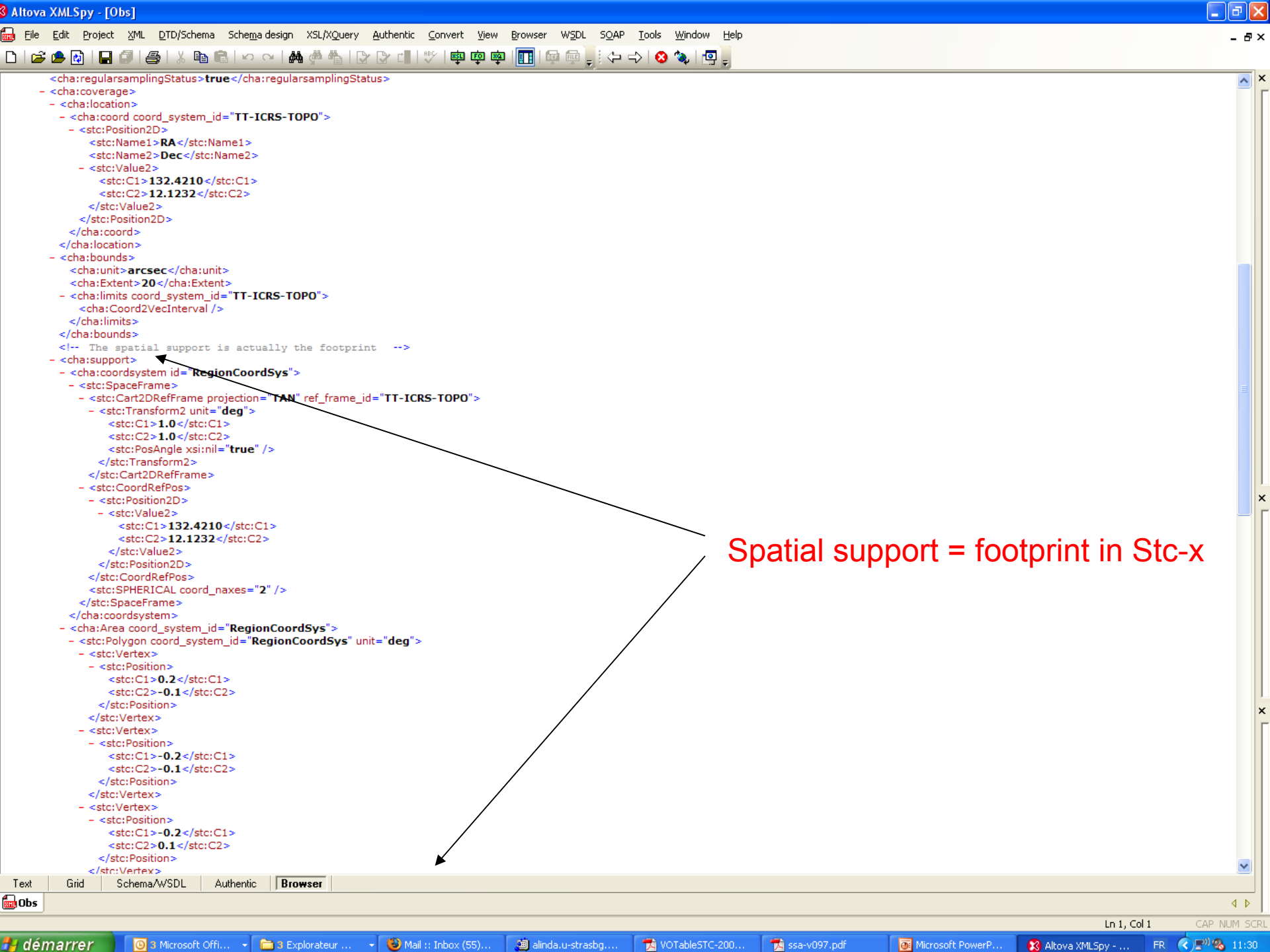
Text | Grid | Schema/WSDL | Authentic | Browser

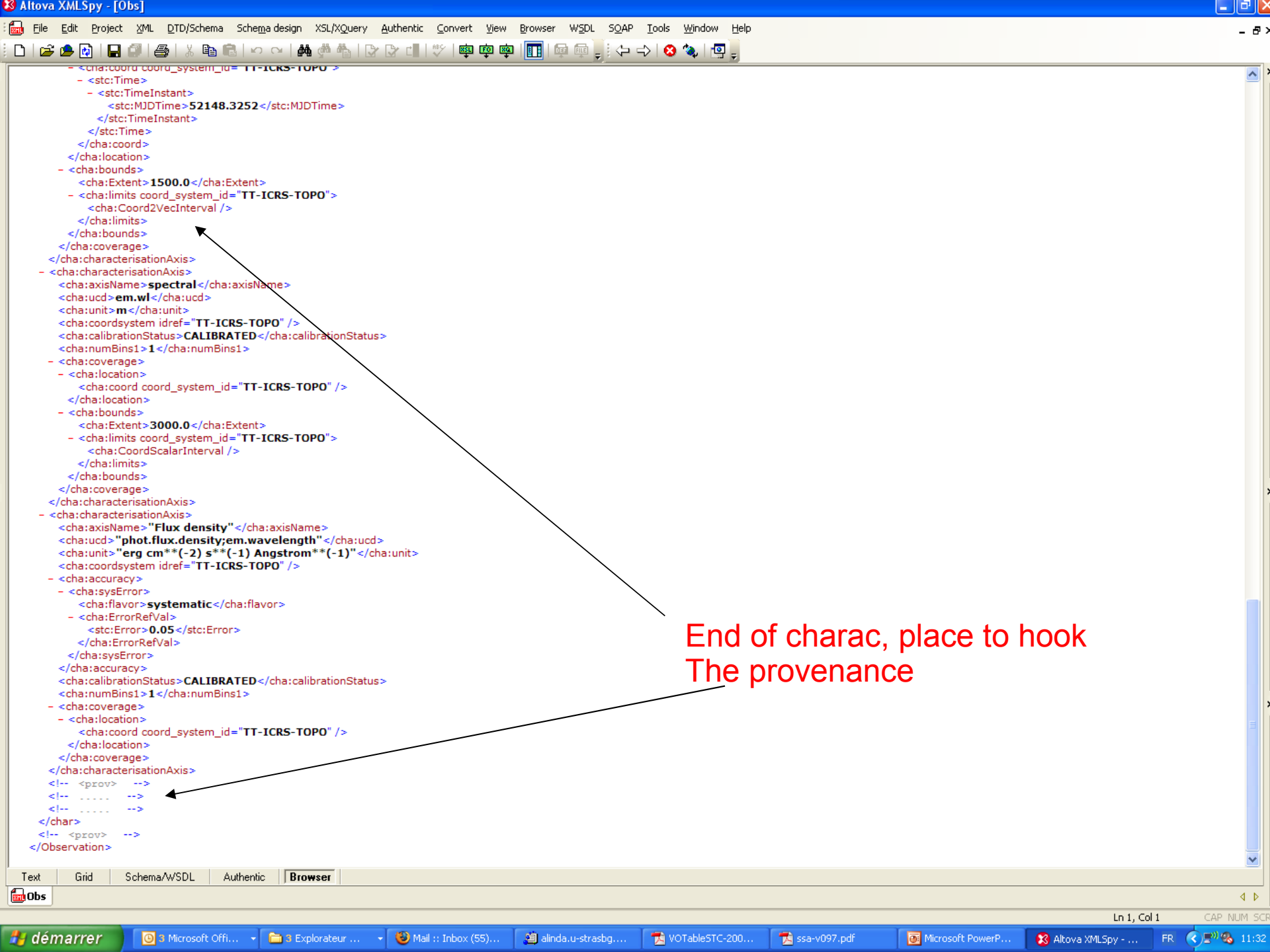
Obs

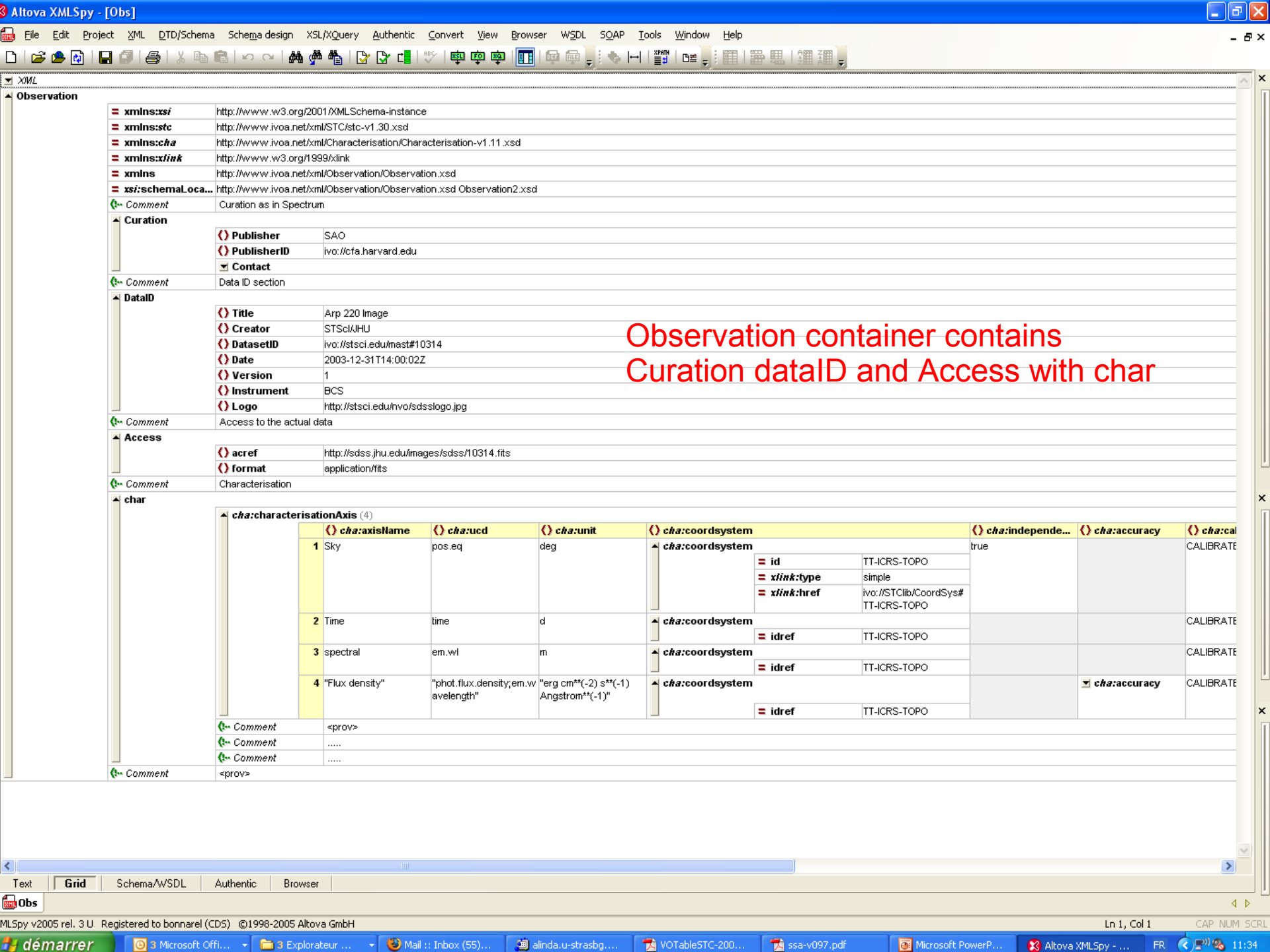
Ln 1, Col 1

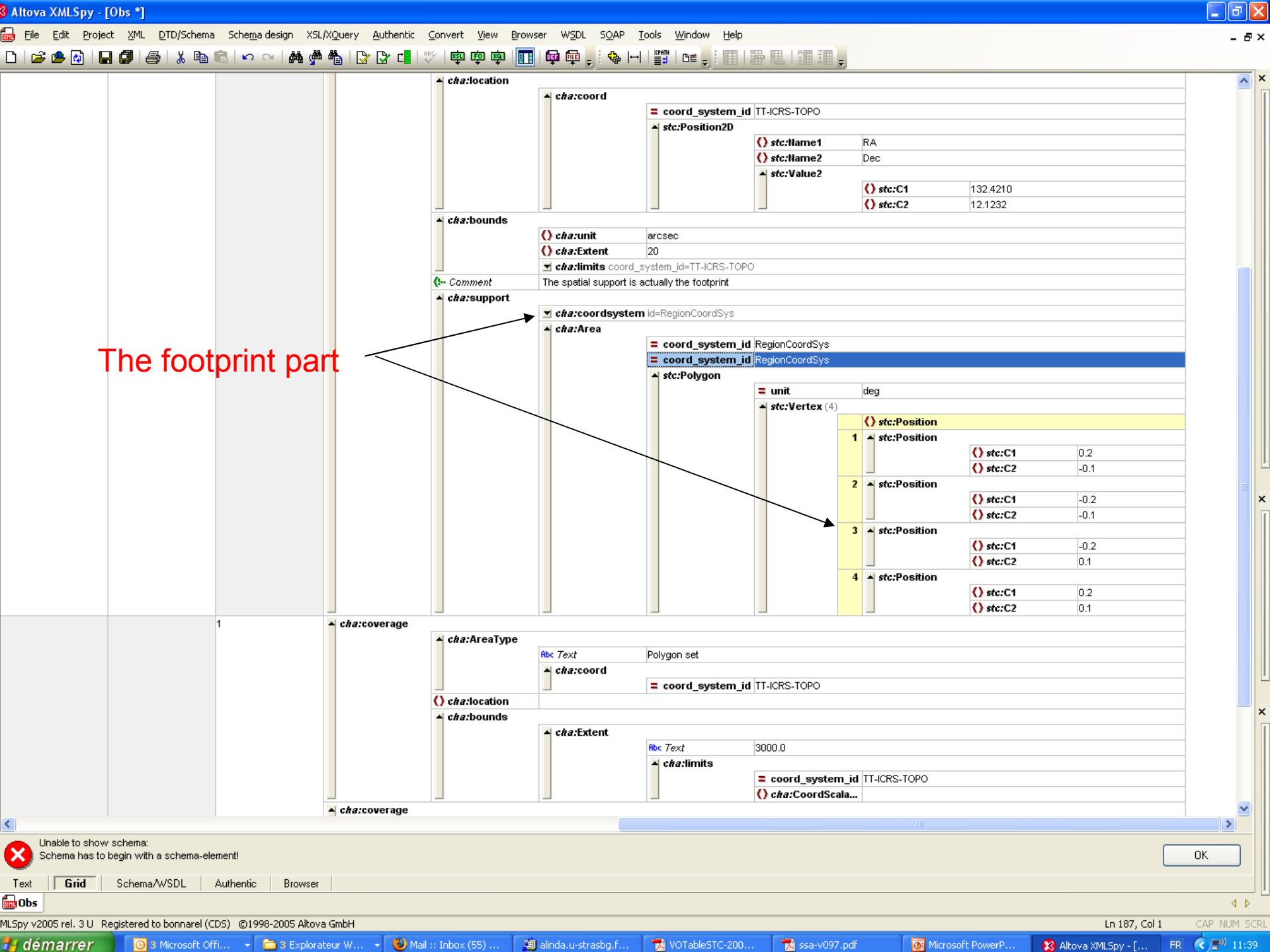
CAP NUM SCR

démarrer | 3 Microsoft Offi... | 3 Explorateur ... | Mail :: Inbox (55)... | alinda.u-strasbg.... | VOTableSTC-200... | ssa-v097.pdf | Microsoft PowerP... | Altova XMLSpy - ... | FR | 11:27


Altova XMLSpy - [Obs]
File Edit Project XML DTD/Schema Schema design XSL/XQuery Authentic Convert View Browser WSDL SOAP Tools Window Help
<cha:regularsamplingStatus>true</cha:regularsamplingStatus>
<cha:coverage>
<cha:location>
<cha:coord coord_system_id="TT-ICRS-TOPO">
<stc:Position2D>
<stc:Name1>RA</stc:Name1>
<stc:Name2>Dec</stc:Name2>
<stc:Value2>
<stc:C1>132.4210</stc:C1>
<stc:C2>12.1232</stc:C2>
</stc:Value2>
</stc:Position2D>
</cha:coord>
</cha:location>
<cha:bounds>
<cha:unit>arcsec</cha:unit>
<cha:Extent>20</cha:Extent>
<cha:limits coord_system_id="TT-ICRS-TOPO">
<cha:Coord2VecInterval />
</cha:limits>
</cha:bounds>
<!-- The spatial support is actually the footprint -->
<cha:support>
<cha:coordsystem id="RegionCoordSys">
<stc:SpaceFrame>
<stc:Cart2DRefFrame projection="TAN" ref_frame_id="TT-ICRS-TOPO">
<stc:Transform2 unit="deg">
<stc:C1>1.0</stc:C1>
<stc:C2>1.0</stc:C2>
<stc:PosAngle xsi:nil="true" />
</stc:Transform2>
</stc:Cart2DRefFrame>
<stc:CoordRefPos>
<stc:Position2D>
<stc:Value2>
<stc:C1>132.4210</stc:C1>
<stc:C2>12.1232</stc:C2>
</stc:Value2>
</stc:Position2D>
</stc:CoordRefPos>
<stc:SPHERICAL coord_naxes="2" />
</stc:SpaceFrame>
</cha:coordsystem>
<cha:Area coord_system_id="RegionCoordSys">
<stc:Polygon coord_system_id="RegionCoordSys" unit="deg">
<stc:Vertex>
<stc:Position>
<stc:C1>0.2</stc:C1>
<stc:C2>-0.1</stc:C2>
</stc:Position>
</stc:Vertex>
<stc:Vertex>
<stc:Position>
<stc:C1>-0.2</stc:C1>
<stc:C2>-0.1</stc:C2>
</stc:Position>
</stc:Vertex>
<stc:Vertex>
<stc:Position>
<stc:C1>-0.2</stc:C1>
<stc:C2>0.1</stc:C2>
</stc:Position>
</stc:Vertex>
Spatial support = footprint in Stc-x
Text Grid Schema/WSDL Authentic Browser
Obs
Ln 1, Col 1
CAP NUM SCRL
démarrer
3 Microsoft Offi...
3 Explorateur ...
Mail :: Inbox (55)...
alinda.u-strasbg....
VOTableSTC-200...
ssa-v097.pdf
Microsoft PowerP...
Altova XMLSpy - ...
FR
11:30

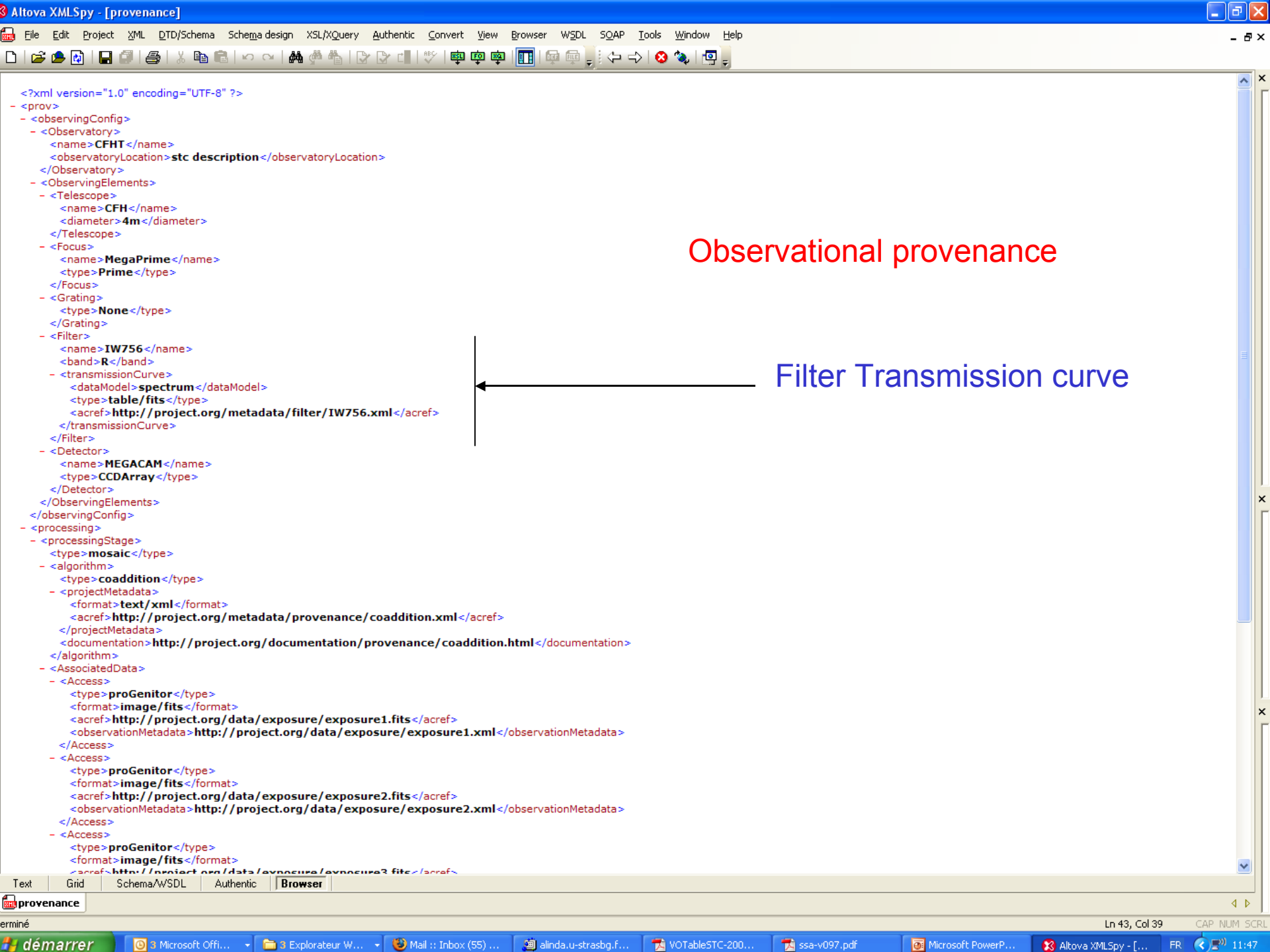

Altova XMLSpy - [Obs]
File Edit Project XML DTD/Schema Schema design XSL/XQuery Authentic Convert View Browser WSDL SOAP Tools Window Help
<stc:Time>
<stc:TimeInstant>
<stc:MJDTime>52148.3252</stc:MJDTime>
</stc:TimeInstant>
</stc:Time>
</cha:coord>
</cha:location>
<cha:bounds>
<cha:Extent>1500.0</cha:Extent>
<cha:limits coord_system_id="TT-ICRS-TOPO">
<cha:Coord2VecInterval />
</cha:limits>
</cha:bounds>
</cha:coverage>
</cha:characterisationAxis>
<cha:characterisationAxis>
<cha:axisName>spectral</cha:axisName>
<cha:ucd>em.wl</cha:ucd>
<cha:unit>m</cha:unit>
<cha:coordsystem idref="TT-ICRS-TOPO" />
<cha:calibrationStatus>CALIBRATED</cha:calibrationStatus>
<cha:numBins1>1</cha:numBins1>
<cha:coverage>
<cha:location>
<cha:coord coord_system_id="TT-ICRS-TOPO" />
</cha:location>
<cha:bounds>
<cha:Extent>3000.0</cha:Extent>
<cha:limits coord_system_id="TT-ICRS-TOPO">
<cha:CoordScalarInterval />
</cha:limits>
</cha:bounds>
</cha:coverage>
</cha:characterisationAxis>
<cha:characterisationAxis>
<cha:axisName>"Flux density"</cha:axisName>
<cha:ucd>"phot.flux.density;em.wavelength"</cha:ucd>
<cha:unit>"erg cm**(-2) s**(-1) Angstrom**(-1)"</cha:unit>
<cha:coordsystem idref="TT-ICRS-TOPO" />
<cha:accuracy>
<cha:sysError>
<cha:flavor>systematic</cha:flavor>
<cha:ErrorRefVal>
<stc:Error>0.05</stc:Error>
</cha:ErrorRefVal>
</cha:sysError>
</cha:accuracy>
<cha:calibrationStatus>CALIBRATED</cha:calibrationStatus>
<cha:numBins1>1</cha:numBins1>
<cha:coverage>
<cha:location>
<cha:coord coord_system_id="TT-ICRS-TOPO" />
</cha:location>
</cha:coverage>
</cha:characterisationAxis>
<!-- <prov> -->
<!-- ..... -->
<!-- ..... -->
</char>
<!-- <prov> -->
</Observation>
End of charac, place to hook
The provenance
Text Grid Schema/WSDL Authentic Browser
Obs
Ln 1, Col 1
CAP NUM SCR
démarrer
3 Microsoft Offi...
3 Explorateur ...
Mail :: Inbox (55)...
alinda.u-strasbg....
VOTableSTC-200...
ssa-v097.pdf
Microsoft PowerP...
Altova XMLSpy - ...
FR
11:32

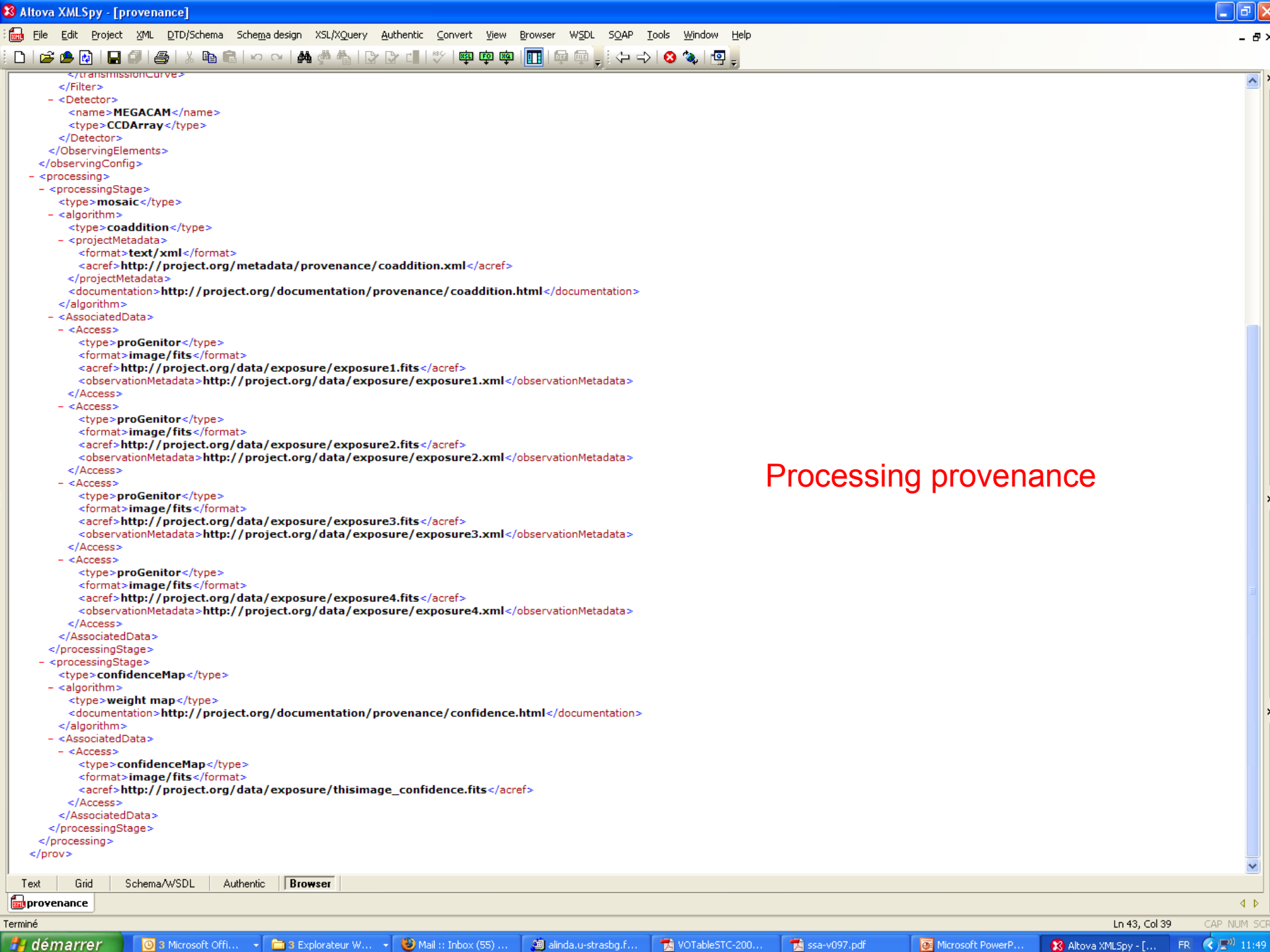

Altova XMLSpy - [Obs]
File Edit Project XML DTD/Schema Schema design XSL/XQuery Authentic Convert View Browser WSDL SOAP Tools Window Help
XML
Observation
xmlns:xsi http://www.w3.org/2001/XMLSchema-instance
xmlns:stc http://www.ivoa.net/xml/STC/stc-v1.30.xsd
xmlns:cha http://www.ivoa.net/xml/Characterisation/Characterisation-v1.11.xsd
xmlns:xlink http://www.w3.org/1999/xlink
xmlns http://www.ivoa.net/xml/Observation/Observation.xsd
xsi:schemaLoca... http://www.ivoa.net/xml/Observation/Observation.xsd Observation2.xsd
Comment Curation as in Spectrum
Curation
Publisher SAO
PublisherID ivo://cfa.harvard.edu
Contact
Comment Data ID section
DataID
Title Arp 220 Image
Creator STScI/JHU
DatasetID ivo://stsci.edu/mast#10314
Date 2003-12-31T14:00:02Z
Version 1
Instrument BCS
Logo http://stsci.edu/nvo/sdsslogo.jpg
Comment Access to the actual data
Access
acref http://sdss.jhu.edu/images/sdss/10314.fits
format application/fits
Comment Characterisation
char
cha:characterisationAxis (4)
cha:axisName cha:ucd cha:unit cha:coordsystem cha:independe... cha:accuracy cha:cal
1 Sky pos.eq deg cha:coordsystem true CALIBRATE
id TT-ICRS-TOPO
xlink:type simple
xlink:href ivo://STClib/CoordSys#TT-ICRS-TOPO
2 Time time d cha:coordsystem CALIBRATE
idref TT-ICRS-TOPO
3 spectral em.wl m cha:coordsystem CALIBRATE
idref TT-ICRS-TOPO
4 "Flux density" "phot.flux.density;em.wavelength" "erg cm**(-2) s**(-1) Angstrom**(-1)" cha:coordsystem cha:accuracy CALIBRATE
idref TT-ICRS-TOPO
Comment <prov>
Comment .....
Comment .....
Comment <prov>
Observation container contains
Curation dataID and Access with char
Text Grid Schema/WSDL Authentic Browser
Obs
MLSpy v2005 rel. 3 U Registered to bonnarel (CDS) ©1998-2005 Altova GmbH
Ln 1, Col 1
CAP NUM SCRL
démarrer
3 Microsoft Offi...
3 Explorateur ...
Mail :: Inbox (55)...
alinda.u-strasbg....
VOTableSTC-200...
ssa-v097.pdf
Microsoft PowerP...
Altova XMLSpy - ...
FR
11:34


Altova XMLSpy - [Obs *]
File Edit Project XML DTD/Schema Schema design XSL/XQuery Authentic Convert View Browser WSDL SOAP Tools Window Help
cha:location
cha:coord
coord_system_id TT-ICRS-TOPO
stc:Position2D
stc:Name1 RA
stc:Name2 Dec
stc:Value2
stc:C1 132.4210
stc:C2 12.1232
cha:bounds
cha:unit arcsec
cha:Extent 20
cha:limits coord_system_id=TT-ICRS-TOPO
Comment The spatial support is actually the footprint
cha:support
cha:coordsystem id=RegionCoordSys
cha:Area
coord_system_id RegionCoordSys
coord_system_id RegionCoordSys
stc:Polygon
unit deg
stc:Vertex (4)
stc:Position
1 stc:Position
stc:C1 0.2
stc:C2 -0.1
2 stc:Position
stc:C1 -0.2
stc:C2 -0.1
3 stc:Position
stc:C1 -0.2
stc:C2 0.1
4 stc:Position
stc:C1 0.2
stc:C2 0.1
The footprint part
1
cha:coverage
cha:AreaType
Text Polygon set
cha:coord
coord_system_id TT-ICRS-TOPO
cha:location
cha:bounds
cha:Extent
Text 3000.0
cha:limits
coord_system_id TT-ICRS-TOPO
cha:CoordScala...
cha:coverage
Unable to show schema:
Schema has to begin with a schema-element!
OK
Text Grid Schema/WSDL Authentic Browser
Obs
MLSpy v2005 rel. 3 U Registered to bonnarel (CDS) ©1998-2005 Altova GmbH
Ln 187, Col 1
CAP NUM SCRL
démarrer
3 Microsoft Offi...
3 Explorateur W...
Mail :: Inbox (55) ...
alinda.u-strasbg.f...
VOTableSTC-200...
ssa-v097.pdf
Microsoft PowerP...
Altova XMLSpy - [...
FR
11:39

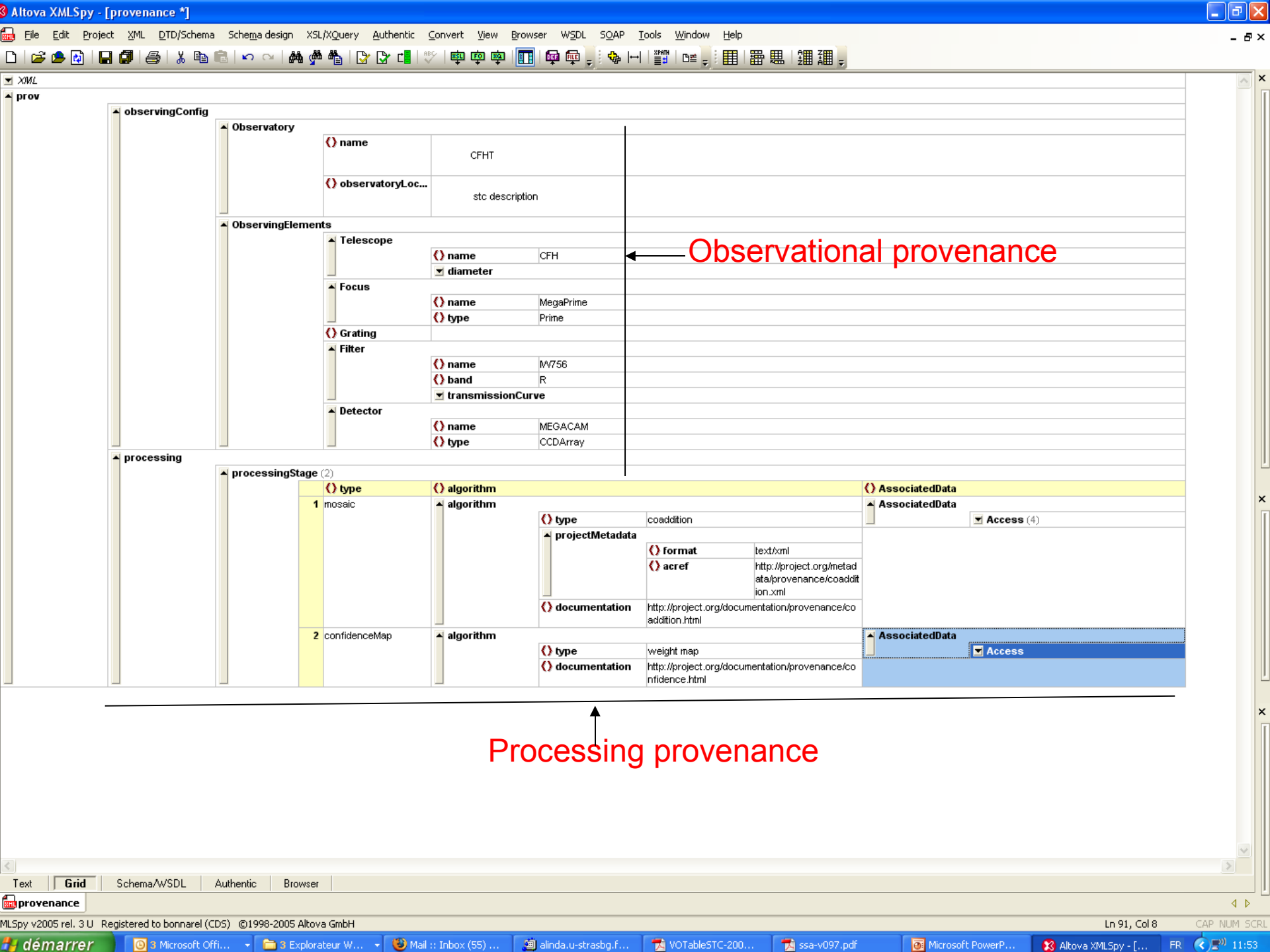
Observation container

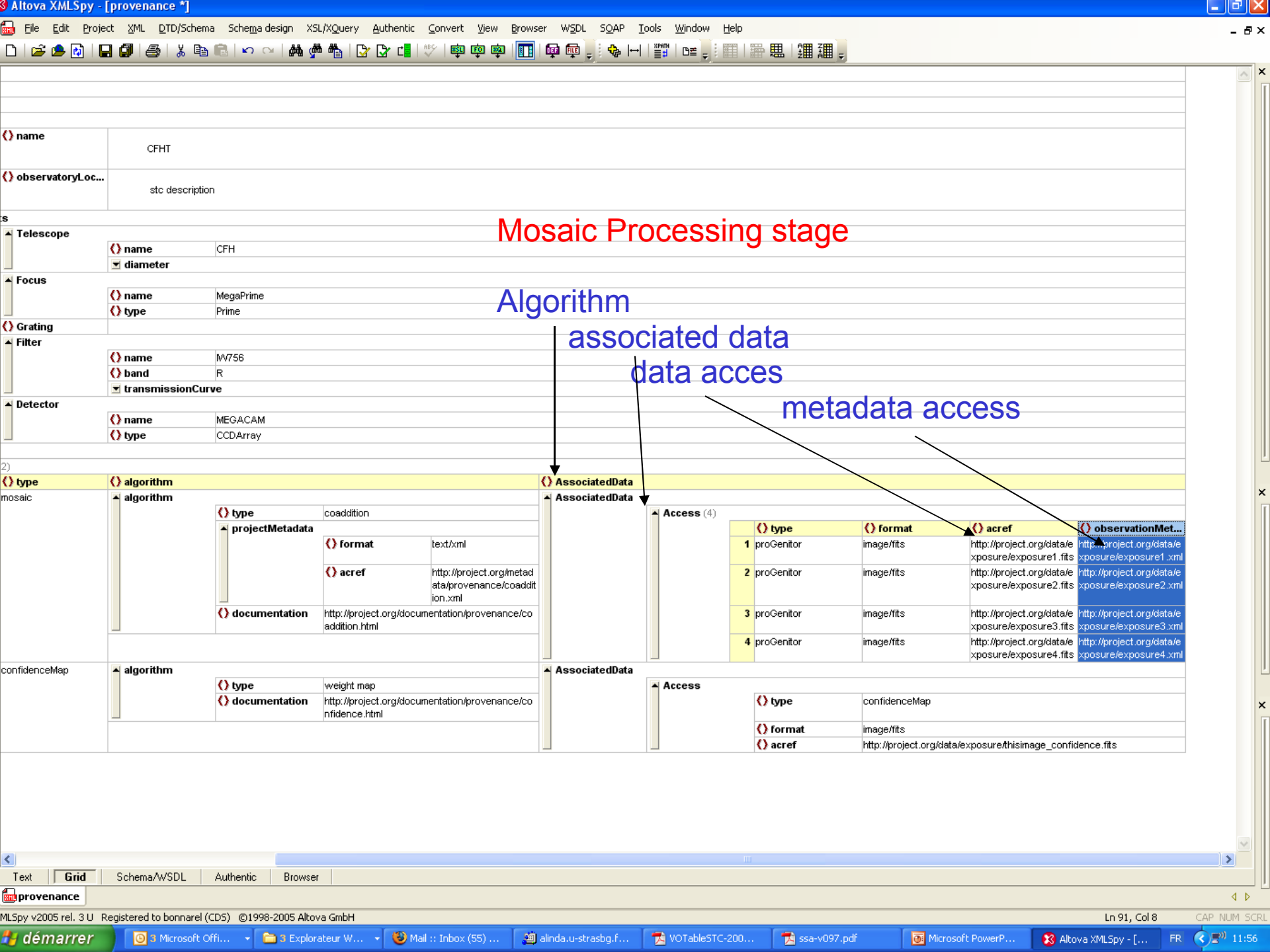
- Hook Characterization and footprints to DatasetID and Curation
- Basic structure is coming from Spectrum data model
- Use cases:
  - Footprint service (see demo by tamas and gretchen Tommorow)
  - VOSPACE « intelligent retrieval » (discussion with Dave Morris)
- Able to Hook provenance
- Comment from Doug (which I agree with): similar to generic dataset concept (see discussion in DAL tommorow)


Altova XMLSpy - [provenance]
File Edit Project XML DTD/Schema Schema design XSL/XQuery Authentic Convert View Browser WSDL SOAP Tools Window Help
<?xml version="1.0" encoding="UTF-8" ?>
<prov>
<observingConfig>
<Observatory>
<name>CFHT</name>
<observatoryLocation>stc description</observatoryLocation>
</Observatory>
<ObservingElements>
<Telescope>
<name>CFH</name>
<diameter>4m</diameter>
</Telescope>
<Focus>
<name>MegaPrime</name>
<type>Prime</type>
</Focus>
<Grating>
<type>None</type>
</Grating>
<Filter>
<name>IW756</name>
<band>R</band>
<transmissionCurve>
<dataModel>spectrum</dataModel>
<type>table/fits</type>
<acref>http://project.org/metadata/filter/IW756.xml</acref>
</transmissionCurve>
</Filter>
<Detector>
<name>MEGACAM</name>
<type>CCDArray</type>
</Detector>
</ObservingElements>
</observingConfig>
<processing>
<processingStage>
<type>mosaic</type>
<algorithm>
<type>coaddition</type>
<projectMetadata>
<format>text/xml</format>
<acref>http://project.org/metadata/provenance/coaddition.xml</acref>
</projectMetadata>
<documentation>http://project.org/documentation/provenance/coaddition.html</documentation>
</algorithm>
<AssociatedData>
<Access>
<type>proGenitor</type>
<format>image/fits</format>
<acref>http://project.org/data/exposure/exposure1.fits</acref>
<observationMetadata>http://project.org/data/exposure/exposure1.xml</observationMetadata>
</Access>
<Access>
<type>proGenitor</type>
<format>image/fits</format>
<acref>http://project.org/data/exposure/exposure2.fits</acref>
<observationMetadata>http://project.org/data/exposure/exposure2.xml</observationMetadata>
</Access>
<Access>
<type>proGenitor</type>
<format>image/fits</format>
Observational provenance
Filter Transmission curve
Text Grid Schema/WSDL Authentic Browser
provenance
Ln 43, Col 39
CAP NUM SCRL
démarrer
3 Microsoft Offi...
3 Explorateur W...
Mail :: Inbox (55) ...
alinda.u-strasbg.f...
VOTableSTC-200...
ssa-v097.pdf
Microsoft PowerP...
Altova XMLSpy - [...
FR
11:47



Processing provenance


Altova XMLSpy - [provenance *]
File Edit Project XML DTD/Schema Schema design XSL/XQuery Authentic Convert View Browser WSDL SOAP Tools Window Help
XML
prov
observingConfig
Observatory
name
CFHT
observatoryLoc...
stc description
ObservingElements
Telescope
name
CFH
diameter
Focus
name
MegaPrime
type
Prime
Grating
Filter
name
MW756
band
R
transmissionCurve
Detector
name
MEGACAM
type
CCDArray
Observational provenance
processing
processingStage (2)
type
algorithm
AssociatedData
1
mosaic
algorithm
type
coaddition
projectMetadata
format
text/xml
acref
http://project.org/metadata/provenance/coaddition.xml
documentation
http://project.org/documentation/provenance/coaddition.html
AssociatedData
Access (4)
2
confidenceMap
algorithm
type
weight map
documentation
http://project.org/documentation/provenance/confidence.html
AssociatedData
Access
Processing provenance
Text
Grid
Schema/WSDL
Authentic
Browser
provenance
MLSpy v2005 rel. 3 U Registered to bonnarel (CDS) ©1998-2005 Altova GmbH
Ln 91, Col 8
CAP NUM SCRL
démarrer
3 Microsoft Offi...
3 Explorateur W...
Mail :: Inbox (55) ...
alinda.u-strasbg.f...
VOTableSTC-200...
ssa-v097.pdf
Microsoft PowerP...
Altova XMLSpy - [...
FR
11:53


Altova XMLSpy - [provenance *]
File Edit Project XML DTD/Schema Schema design XSL/XQuery Authentic Convert View Browser WSDL SOAP Tools Window Help
name
CFHT
observatoryLoc...
stc description
Mosaic Processing stage
Algorithm
associated data
data acces
metadata access
Telescope
name CFH
diameter
Focus
name MegaPrime
type Prime
Grating
Filter
name W756
band R
transmissionCurve
Detector
name MEGACAM
type CCDArray
type
algorithm
AssociatedData
mosaic
algorithm
type coaddition
projectMetadata
format text/xml
acref http://project.org/metadata/provenance/coaddition.xml
documentation http://project.org/documentation/provenance/coaddition.html
AssociatedData
Access (4)
type format acref observationMet...
1 proGenitor image/fits http://project.org/data/exposure/exposure1.fits http://project.org/data/exposure/exposure1.xml
2 proGenitor image/fits http://project.org/data/exposure/exposure2.fits http://project.org/data/exposure/exposure2.xml
3 proGenitor image/fits http://project.org/data/exposure/exposure3.fits http://project.org/data/exposure/exposure3.xml
4 proGenitor image/fits http://project.org/data/exposure/exposure4.fits http://project.org/data/exposure/exposure4.xml
confidenceMap
algorithm
type weight map
documentation http://project.org/documentation/provenance/confidence.html
AssociatedData
Access
type confidenceMap
format image/fits
acref http://project.org/data/exposure/thisimage_confidence.fits
Text Grid Schema/WSDL Authentic Browser
provenance
MLSpy v2005 rel. 3 U Registered to bonnarel (CDS) ©1998-2005 Altova GmbH
Ln 91, Col 8
démarrer
3 Microsoft Offi...
3 Explorateur W...
Mail :: Inbox (55) ...
alinda.u-strasbg.f...
VOTableSTC-200...
ssa-v097.pdf
Microsoft PowerP...
Altova XMLSpy - [...
FR
11:56

Provenance ?

- Work out the Observation Config elements?
- Work out the ProcessingStages elements types : mosaic, confidence map, calibration , etc ..
- Add an « ambient conditions » subclass.
- For transmission curve use an IVOA spectrum instance with no Target, no spatial nor time char, relative flux. (caution: differences between utype list and xml schema)

Altova XMLSpy - [Characterization2 *]

File Edit Project XML DTD/Schema Schema design XSL/XQuery Authentic Convert View Browser WSDL SOAP Tools Window Help

```
<?xml version="1.0" encoding="UTF-8" ?>
- <characterization xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:stc="http://www.ivoa.net/xml/STC/stc-v1.30.xsd"
    xmlns="http://www.ivoa.net/xml/Characterisation/Characterisation-v2.0.xsd" xmlns:xlink="http://www.w3.org/1999/xlink">
  - <globalChar>
    - <characterizationAxis>
        <axisName>spatial</axisName>
        <calibrationStatus>CALIBRATED</calibrationStatus>
        <ucd>pos</ucd>
        <unit>deg</unit>
        <coordsystem id="TT-ICRS-TOPO" xlink:type="simple" xlink:href="ivo://STClib/CoordSys#TT-ICRS-TOPO" />
        <independantAxis>true</independantAxis>
      - <numBins2>
          <I1>512</I1>
          <I2>512</I2>
        </numBins2>
        <undersamplingStatus>false</undersamplingStatus>
        <regularsamplingStatus>true</regularsamplingStatus>
      - <coverage>
        - <location>
          - <coord coord_system_id="TT-ICRS-TOPO">
            - <stc:Position2D>
                <stc:Name1>RA</stc:Name1>
                <stc:Name2>Dec</stc:Name2>
              - <stc:Value2>
                  <stc:C1>308.655620</stc:C1>
                  <stc:C2>60.211775</stc:C2>
                </stc:Value2>
              </stc:Position2D>
            </coord>
          </location>
        - <bounds>
          - <limits coord_system_id="TT-ICRS-TOPO">
            - <stc:LoLimit2Vec>
                <stc:C1>308.798321</stc:C1>
                <stc:C2>60.069312</stc:C2>
              </stc:LoLimit2Vec>
            - <stc:HiLimit2Vec>
                <stc:C1>308.512238</stc:C1>
                <stc:C2>60.353806</stc:C2>
              </stc:HiLimit2Vec>
            </limits>
          </bounds>
        </coverage>
      </characterizationAxis>
    - <characterizationAxis>
        <axisName>time</axisName>
        <calibrationStatus>UNCALIBRATED</calibrationStatus>
        <ucd>time</ucd>
        <unit>none</unit>
        <!-- none unit is for ISO-8601 format  -->
        <coordsystem idref="TT-ICRS-TOPO" />
        <independantAxis>true</independantAxis>
        <numBins>1</numBins>
      - <coverage>
        - <location>
          - <coord coordsystem_id="TT-ICRS-TOPO">
            - <stc:Time>
              - <stc:TimeInstant>
                  <stc:MJDTime>51510.112523</stc:MJDTime>
                </stc:TimeInstant>
              </stc:Time>
            </coord>
```

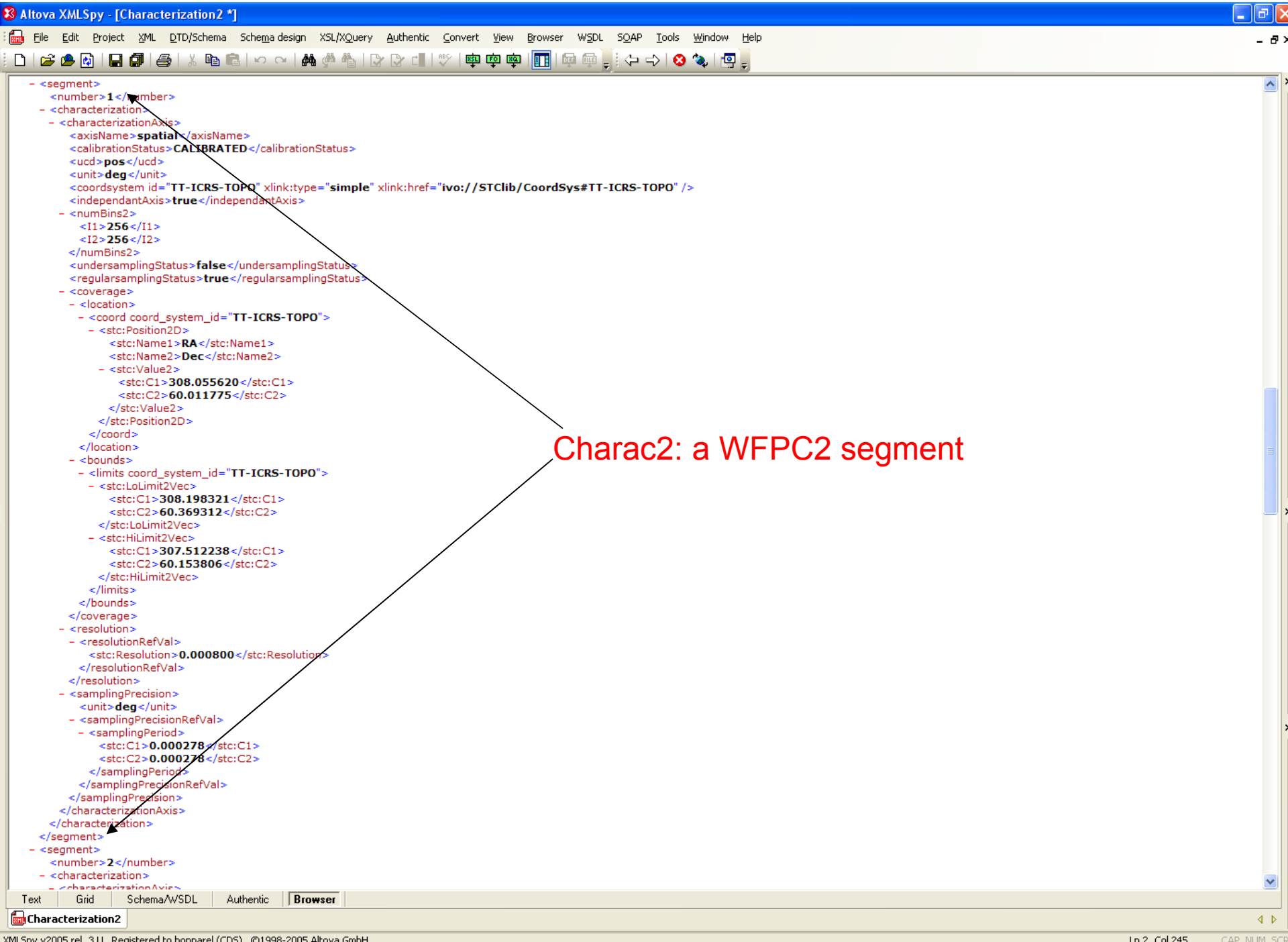
Charac2 : global caharacterization

Text Grid Schema/WSDL Authentic Browser

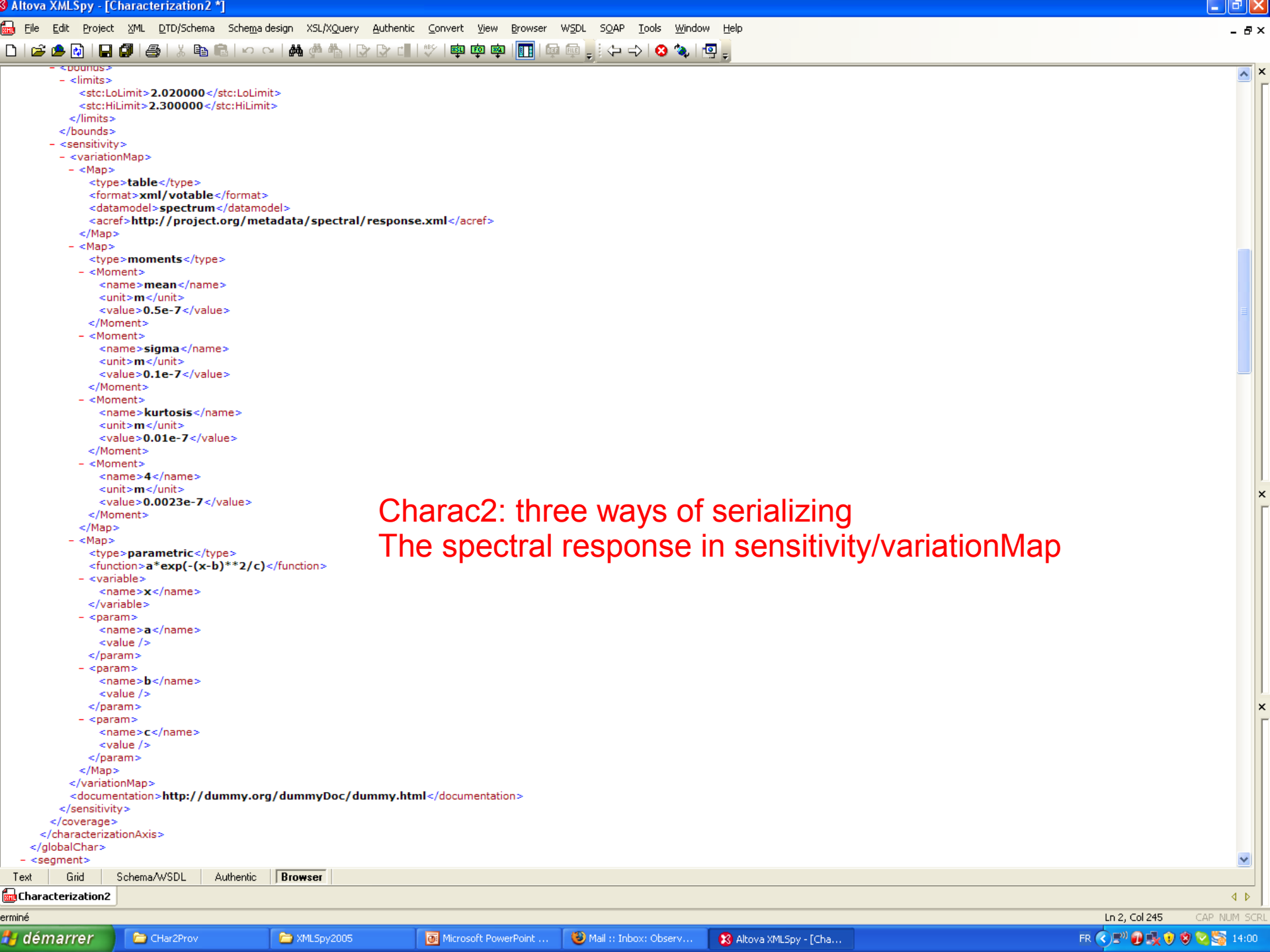
Characterization2

erminé Ln 2, Col 245 CAP NUM SCRL

démarrer | CHar2Prov | XMLSpy2005 | Microsoft PowerPoint ... | Mail :: Inbox: Observ... | Altova XMLSpy - [Cha... | FR 13:59

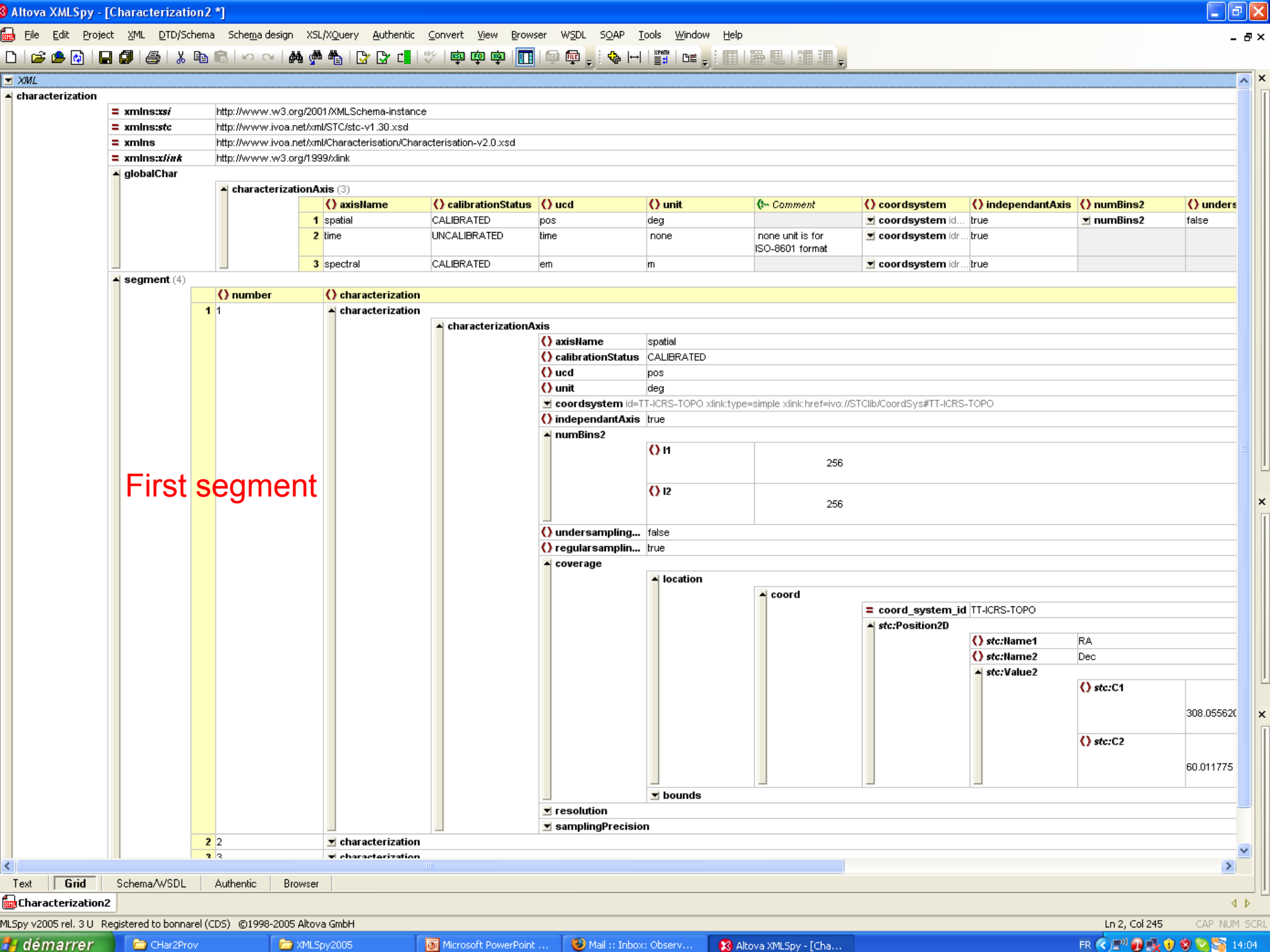

Altova XMLSpy - [Characterization2 *]
File Edit Project XML DTD/Schema Schema design XSL/XQuery Authentic Convert View Browser WSDL SOAP Tools Window Help
-
<number>1</number>
- <characterization>
- <characterizationAxis>
<axisName>spatial</axisName>
<calibrationStatus>CALIBRATED</calibrationStatus>
<ucd>pos</ucd>
<unit>deg</unit>
<coordsystem id="TT-ICRS-TOPO" xlink:type="simple" xlink:href="ivo://STClib/CoordSys#TT-ICRS-TOPO" />
<independantAxis>true</independantAxis>
- <numBins2>
<I1>256</I1>
<I2>256</I2>
</numBins2>
<undersamplingStatus>false</undersamplingStatus>
<regularsamplingStatus>true</regularsamplingStatus>
- <coverage>
- <location>
- <coord coord_system_id="TT-ICRS-TOPO">
- <stc:Position2D>
<stc:Name1>RA</stc:Name1>
<stc:Name2>Dec</stc:Name2>
- <stc:Value2>
<stc:C1>308.055620</stc:C1>
<stc:C2>60.011775</stc:C2>
</stc:Value2>
</stc:Position2D>
</coord>
</location>
- <bounds>
- <limits coord_system_id="TT-ICRS-TOPO">
- <stc:LoLimit2Vec>
<stc:C1>308.198321</stc:C1>
<stc:C2>60.369312</stc:C2>
</stc:LoLimit2Vec>
- <stc:HiLimit2Vec>
<stc:C1>307.512238</stc:C1>
<stc:C2>60.153806</stc:C2>
</stc:HiLimit2Vec>
</limits>
</bounds>
</coverage>
- <resolution>
- <resolutionRefVal>
<stc:Resolution>0.000800</stc:Resolution>
</resolutionRefVal>
</resolution>
- <samplingPrecision>
<unit>deg</unit>
- <samplingPrecisionRefVal>
- <samplingPeriod>
<stc:C1>0.000278</stc:C1>
<stc:C2>0.000278</stc:C2>
</samplingPeriod>
</samplingPrecisionRefVal>
</samplingPrecision>
</characterizationAxis>
</characterization>

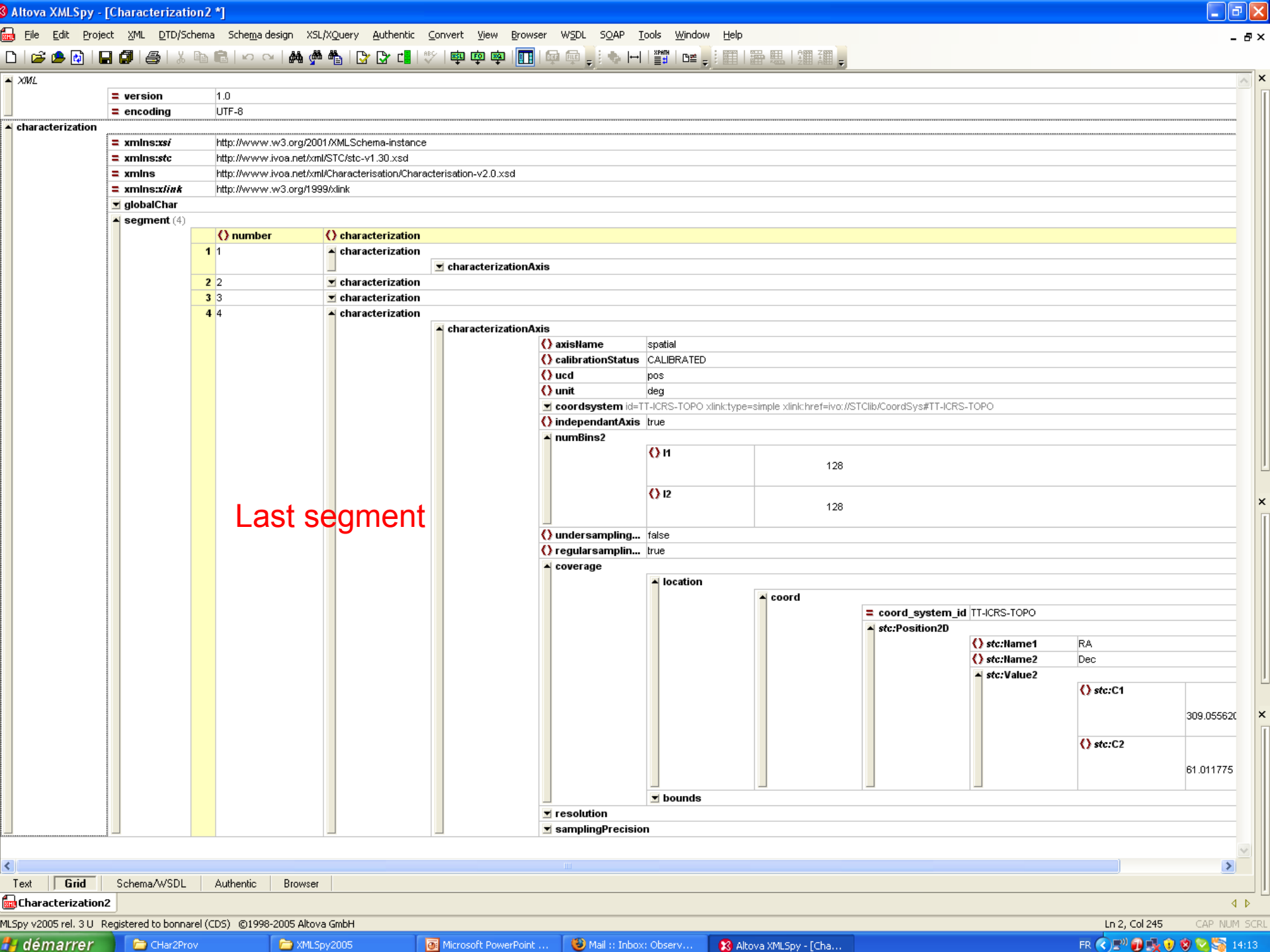
-
<number>2</number>
- <characterization>
Charac2: a WFPC2 segment
Text Grid Schema/WSDL Authentic Browser
Characterization2

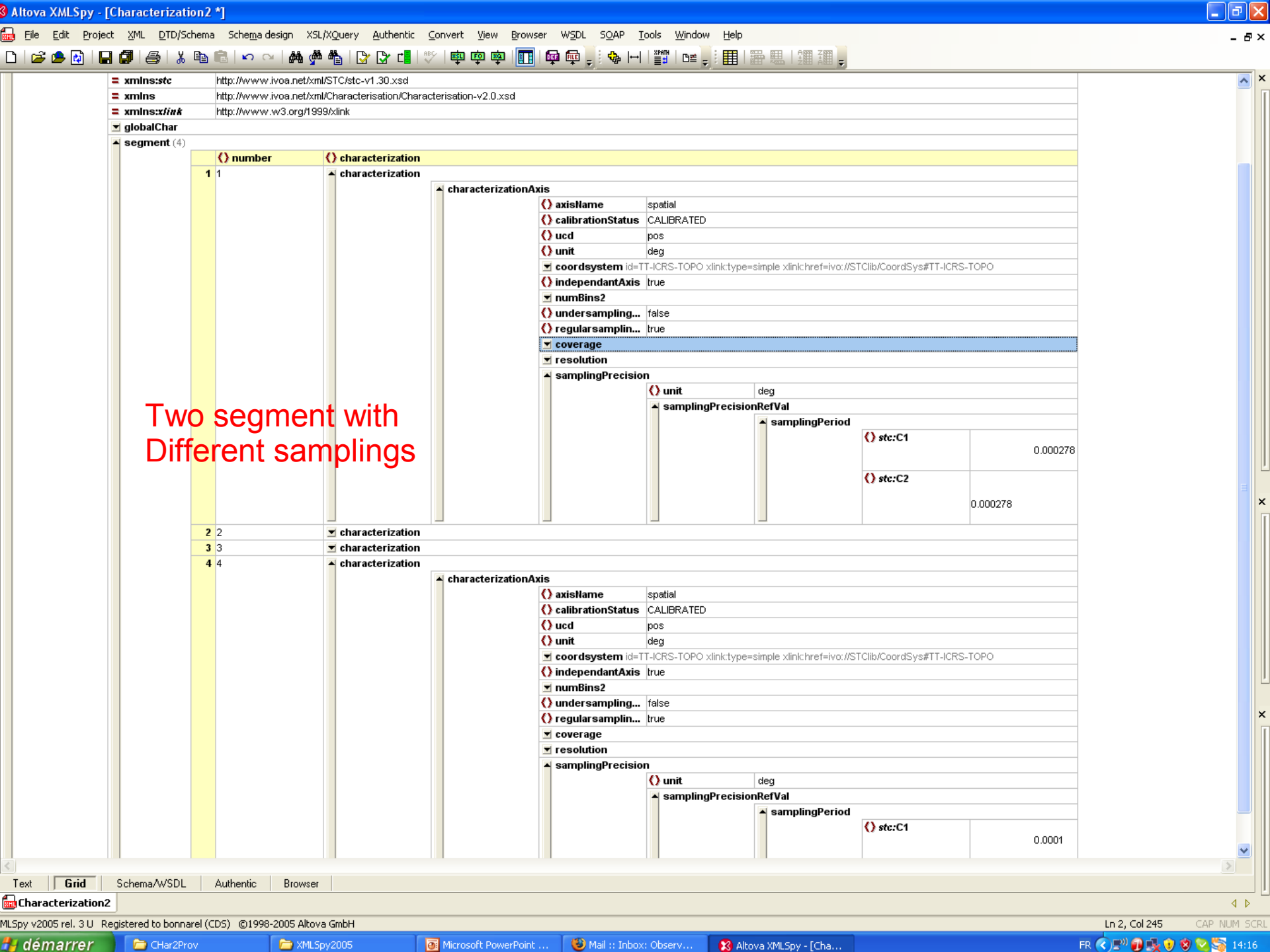

Altova XMLSpy - [Characterization2 *]
File Edit Project XML DTD/Schema Schema design XSL/XQuery Authentic Convert View Browser WSDL SOAP Tools Window Help
<bounds>
<limits>
<stc:LoLimit>2.020000</stc:LoLimit>
<stc:HiLimit>2.300000</stc:HiLimit>
</limits>
</bounds>
<sensitivity>
<variationMap>
<Map>
<type>table</type>
<format>xml/votable</format>
<datamodel>spectrum</datamodel>
<acref>http://project.org/metadata/spectral/response.xml</acref>
</Map>
<Map>
<type>moments</type>
<Moment>
<name>mean</name>
<unit>m</unit>
<value>0.5e-7</value>
</Moment>
<Moment>
<name>sigma</name>
<unit>m</unit>
<value>0.1e-7</value>
</Moment>
<Moment>
<name>kurtosis</name>
<unit>m</unit>
<value>0.01e-7</value>
</Moment>
<Moment>
<name>4</name>
<unit>m</unit>
<value>0.0023e-7</value>
</Moment>
</Map>
<Map>
<type>parametric</type>
<function>a*exp(-(x-b)**2/c)</function>
<variable>
<name>x</name>
</variable>
<param>
<name>a</name>
<value />
</param>
<param>
<name>b</name>
<value />
</param>
<param>
<name>c</name>
<value />
</param>
</Map>
</variationMap>
<documentation>http://dummy.org/dummyDoc/dummy.html</documentation>
</sensitivity>
</coverage>
</characterizationAxis>
</globalChar>

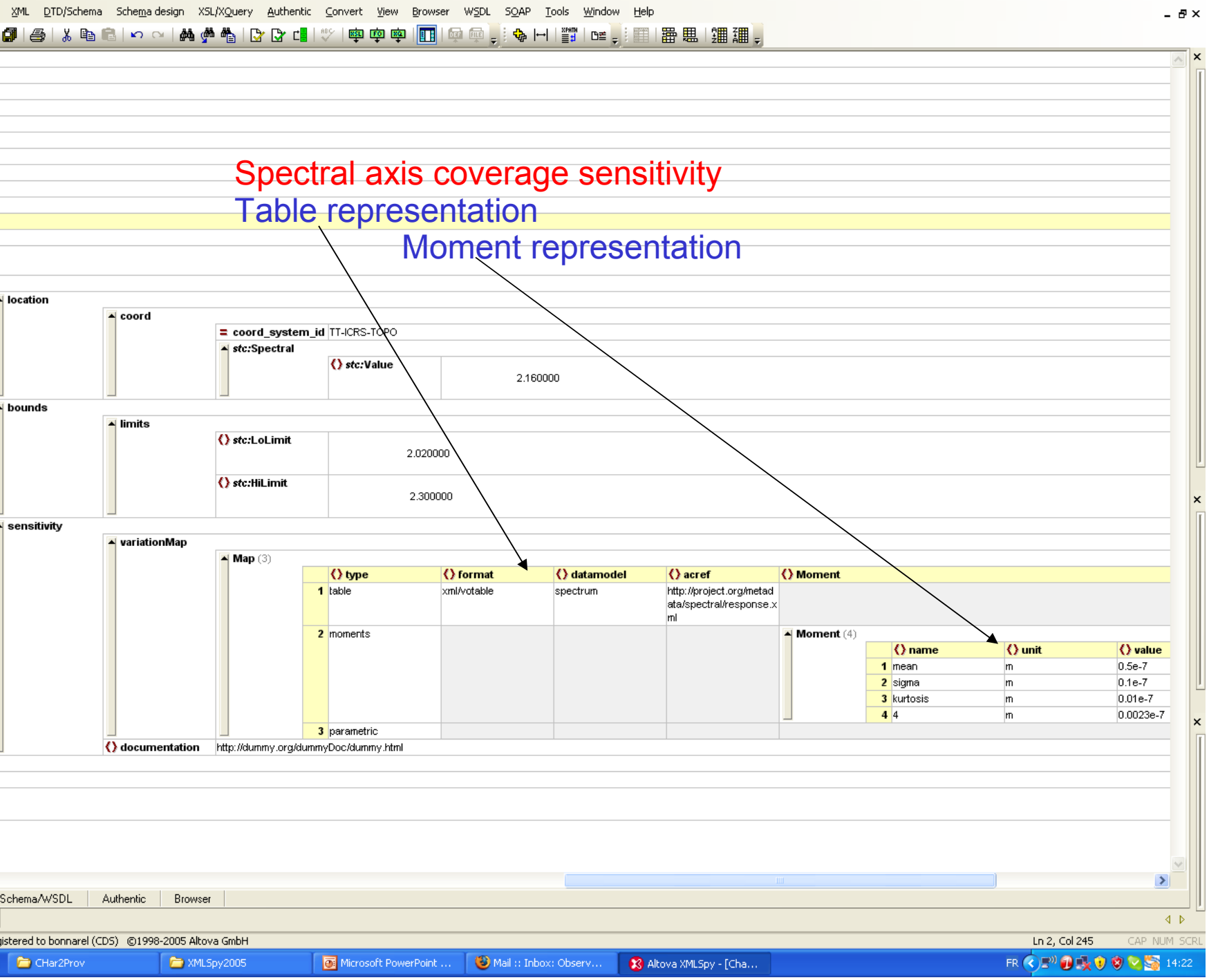
Text Grid Schema/WSDL Authentic Browser
Characterization2
erminé
Ln 2, Col 245
CAP NUM SCRL
démarrer
CHar2Prov
XMLSpy2005
Microsoft PowerPoint ...
Mail :: Inbox: Observ...
Altova XMLSpy - [Cha...
FR
14:00

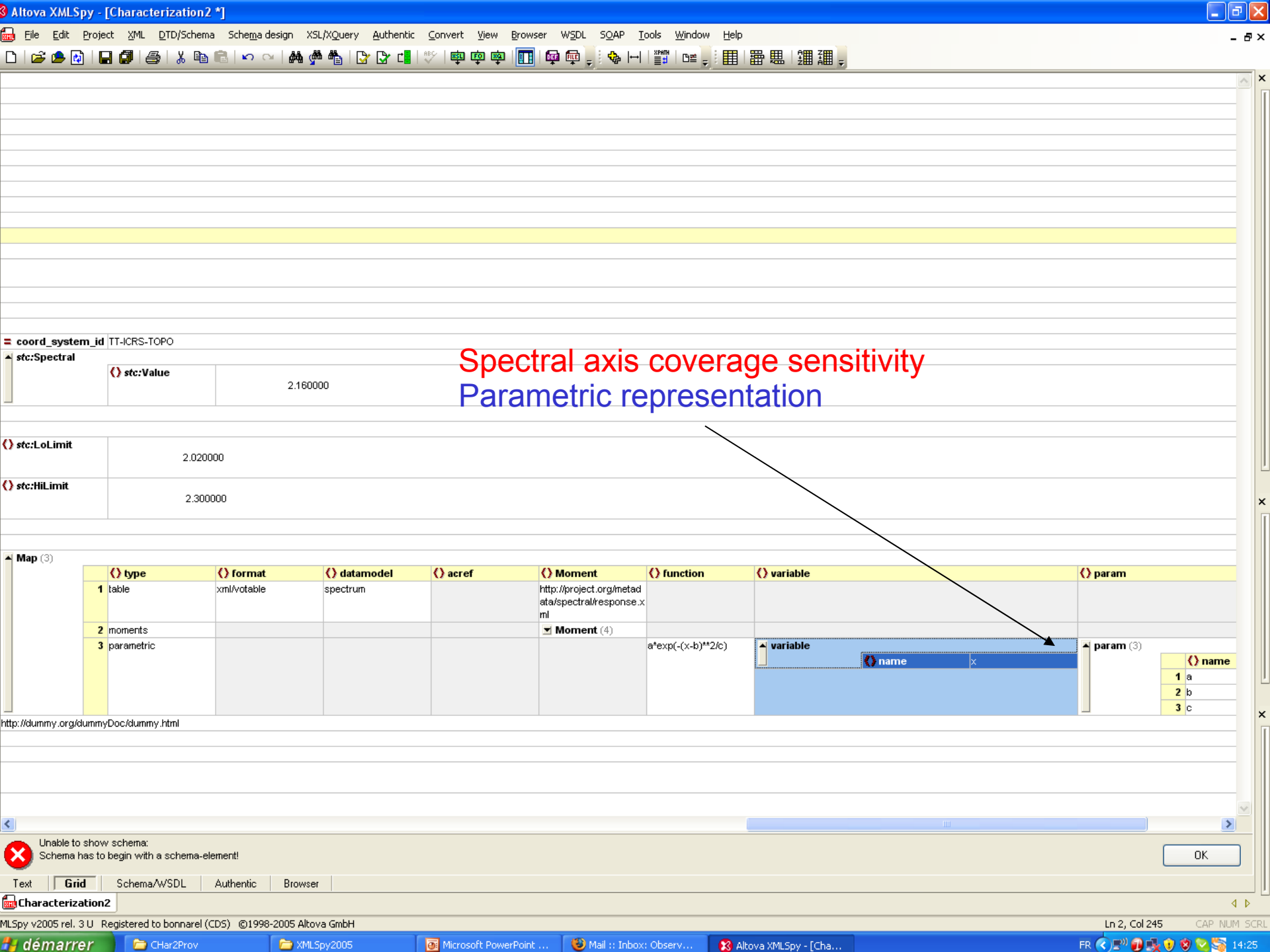
Charac2: three ways of serializing
The spectral response in sensitivity/variationMap


Altova XMLSpy - [Characterization2 *]
File Edit Project XML DTD/Schema Schema design XSL/XQuery Authentic Convert View Browser WSDL SOAP Tools Window Help
XML
characterization
xmlns:xsi http://www.w3.org/2001/XMLSchema-instance
xmlns:stc http://www.ivoa.net/xml/STC/stc-v1.30.xsd
xmlns http://www.ivoa.net/xml/Characterisation/Characterisation-v2.0.xsd
xmlns:xlink http://www.w3.org/1999/xlink
globalChar
characterizationAxis (3)
axisName calibrationStatus ucd unit Comment coordsystem independantAxis numBins2
1 spatial CALIBRATED pos deg coordsystem id... true numBins2 false
2 time UNCALIBRATED time none none unit is for ISO-8601 format coordsystem idr... true
3 spectral CALIBRATED em m coordsystem idr... true
segment (4)
number characterization
1 1
characterization
characterizationAxis
axisName spatial
calibrationStatus CALIBRATED
ucd pos
unit deg
coordsystem id=TT-ICRS-TOPO xlink:type=simple xlink:href=ivo://STClib/CoordSys#TT-ICRS-TOPO
independantAxis true
numBins2
I1 256
I2 256
undersampling... false
regularsamplin... true
coverage
location
coord
coord_system_id TT-ICRS-TOPO
stc:Position2D
stc:Name1 RA
stc:Name2 Dec
stc:Value2
stc:C1 308.055620
stc:C2 60.011775
bounds
resolution
samplingPrecision
2 2
characterization
First segment
Text Grid Schema/WSDL Authentic Browser
Characterization2
MLSpy v2005 rel. 3 U Registered to bonnarel (CDS) ©1998-2005 Altova GmbH
Ln 2, Col 245
CAP NUM SCRL
démarrer
CHar2Prov
XMLSpy2005
Microsoft PowerPoint ...
Mail :: Inbox: Observ...
Altova XMLSpy - [Cha...
FR
14:04


Altova XMLSpy - [Characterization2 *]
File Edit Project XML DTD/Schema Schema design XSL/XQuery Authentic Convert View Browser WSDL SOAP Tools Window Help
XML
version 1.0
encoding UTF-8
characterization
xmlns:xsi http://www.w3.org/2001/XMLSchema-instance
xmlns:stc http://www.ivoa.net/xml/STC/stc-v1.30.xsd
xmlns http://www.ivoa.net/xml/Characterisation/Characterisation-v2.0.xsd
xmlns:xlink http://www.w3.org/1999/xlink
globalChar
segment (4)
number
characterization
1 1
2 2
3 3
4 4
characterizationAxis
axisName spatial
calibrationStatus CALIBRATED
ucd pos
unit deg
coordsystem id=TT-ICRS-TOPO xlink:type=simple xlink:href=ivo://STClib/CoordSys#TT-ICRS-TOPO
independantAxis true
numBins2
l1 128
l2 128
undersampling... false
regularsamplin... true
coverage
location
coord
coord_system_id TT-ICRS-TOPO
stc:Position2D
stc:Name1 RA
stc:Name2 Dec
stc:Value2
stc:C1 309.055620
stc:C2 61.011775
bounds
resolution
samplingPrecision
Last segment
Text Grid Schema/WSDL Authentic Browser
Characterization2
MLSpy v2005 rel. 3 U Registered to bonnarel (CDS) ©1998-2005 Altova GmbH
Ln 2, Col 245
CAP NUM SCRL
démarrer
CHar2Prov
XMLSpy2005
Microsoft PowerPoint ...
Mail :: Inbox: Observ...
Altova XMLSpy - [Cha...
FR 14:13


Altova XMLSpy - [Characterization2 *]
File Edit Project XML DTD/Schema Schema design XSL/XQuery Authentic Convert View Browser WSDL SOAP Tools Window Help
xmlns:stc http://www.ivoa.net/xml/STC/stc-v1.30.xsd
xmlns http://www.ivoa.net/xml/Characterisation/Characterisation-v2.0.xsd
xmlns:xlink http://www.w3.org/1999/xlink
globalChar
segment (4)
number
characterization
1 1
characterization
characterizationAxis
axisName spatial
calibrationStatus CALIBRATED
ucd pos
unit deg
coordsystem id=TT-ICRS-TOPO xlink:type=simple xlink:href=ivo://STClib/CoordSys#TT-ICRS-TOPO
independantAxis true
numBins2
undersampling... false
regularsamplin... true
coverage
resolution
samplingPrecision
unit deg
samplingPrecisionRefVal
samplingPeriod
stc:C1 0.000278
stc:C2 0.000278
2 2
characterization
3 3
characterization
4 4
characterization
characterizationAxis
axisName spatial
calibrationStatus CALIBRATED
ucd pos
unit deg
coordsystem id=TT-ICRS-TOPO xlink:type=simple xlink:href=ivo://STClib/CoordSys#TT-ICRS-TOPO
independantAxis true
numBins2
undersampling... false
regularsamplin... true
coverage
resolution
samplingPrecision
unit deg
samplingPrecisionRefVal
samplingPeriod
stc:C1 0.0001
Two segment with
Different samplings
Text Grid Schema/WSDL Authentic Browser
Characterization2
MLSpy v2005 rel. 3 U Registered to bonnarel (CDS) ©1998-2005 Altova GmbH
Ln 2, Col 245
CAP NUM SCRL
démarrer
CHar2Prov
XMLSpy2005
Microsoft PowerPoint ...
Mail :: Inbox: Observ...
Altova XMLSpy - [Cha...
FR
14:16


XML DTD/Schema Schema design XSL/XQuery Authentic Convert View Browser WSDL SOAP Tools Window Help
Spectral axis coverage sensitivity
Table representation
Moment representation
location
coord
coord_system_id TT-ICRS-TOPO
stc:Spectral
stc:Value 2.160000
bounds
limits
stc:LoLimit 2.020000
stc:HiLimit 2.300000
sensitivity
variationMap
Map (3)
type format datamodel acref Moment
1 table xml/votable spectrum http://project.org/metadata/spectral/response.xml
2 moments
Moment (4)
name unit value
1 mean m 0.5e-7
2 sigma m 0.1e-7
3 kurtosis m 0.01e-7
4 4 m 0.0023e-7
3 parametric
documentation http://dummy.org/dummyDoc/dummy.html
Schema/WSDL Authentic Browser
istered to bonnarel (CDS) ©1998-2005 Altova GmbH
Ln 2, Col 245
CAP NUM SCRL
CHar2Prov XMLSpy2005 Microsoft PowerPoint ... Mail :: Inbox: Observ... Altova XMLSpy - [Cha...
FR 14:22


Altova XMLSpy - [Characterization2 *]
File Edit Project XML DTD/Schema Schema design XSL/XQuery Authentic Convert View Browser WSDL SOAP Tools Window Help
coord_system_id TT-ICRS-TOPO
stc:Spectral
stc:Value 2.160000
stc:LoLimit 2.020000
stc:HiLimit 2.300000
Spectral axis coverage sensitivity
Parametric representation
Map (3)
type format datamodel acref Moment function variable param
1 table xml/votable spectrum http://project.org/metadata/spectral/response.xml
2 moments Moment (4)
3 parametric a*exp(-(x-b)**2/c)
variable name x
param (3) name
1 a
2 b
3 c
http://dummy.org/dummyDoc/dummy.html
Unable to show schema:
Schema has to begin with a schema-element!
OK
Text Grid Schema/WSDL Authentic Browser
Characterization2
MLSpy v2005 rel. 3 U Registered to bonnarel (CDS) ©1998-2005 Altova GmbH
Ln 2, Col 245
CAP NUM SCRL
démarrer
CHar2Prov
XMLSpy2005
Microsoft PowerPoint ...
Mail :: Inbox: Observ...
Altova XMLSpy - [Cha...
FR
14:25

Characterization 2

- More complex ? -→ not that much
- Moments variation Maps -→ statistical charac (meet SimDB needs?)
- parametric description questionned → use standard xml description for that.
- New »enumeration«
  feature for Pol Axis?

Contests, Issues (discussed on Wednesday DM2?)

- Format:
  - promote JSON (instead or in parallel ?) to xml
  - VOTABLE questionned and FITS « forgotten » (I disagree on both !)
- Units and coordinate systems
  - Should we fix them to ICRS/SI (I disagree again)
- Relationship with DAL and applications
  - SIA2, DAL architecture, Generic dataset (tommorow SAL session)
  - Demo using Charac metadata in a Workflow (Thursday morning)

What to do next ?

- Participate to side-meeting on this (Tuesday 5:15/6:40)
- Check and criticize the examples
- Build UML and xml schema on top of that.
- Provide consistent examples in xml, votable FITS and maybe JSON.
- Write the working draft.