

Deltares

Deltares

Delft-FEWS – Running workflow from Spatial Display

New features & enhancements in Delft-FEWS 2022.02

Video and voice-over by:



Julius Sumihar & Socorro Rodrigo

Outline

1. Introduction to running workflow from Spatial Display: particle tracking example
2. Basic configuration
3. Configuration: additional options

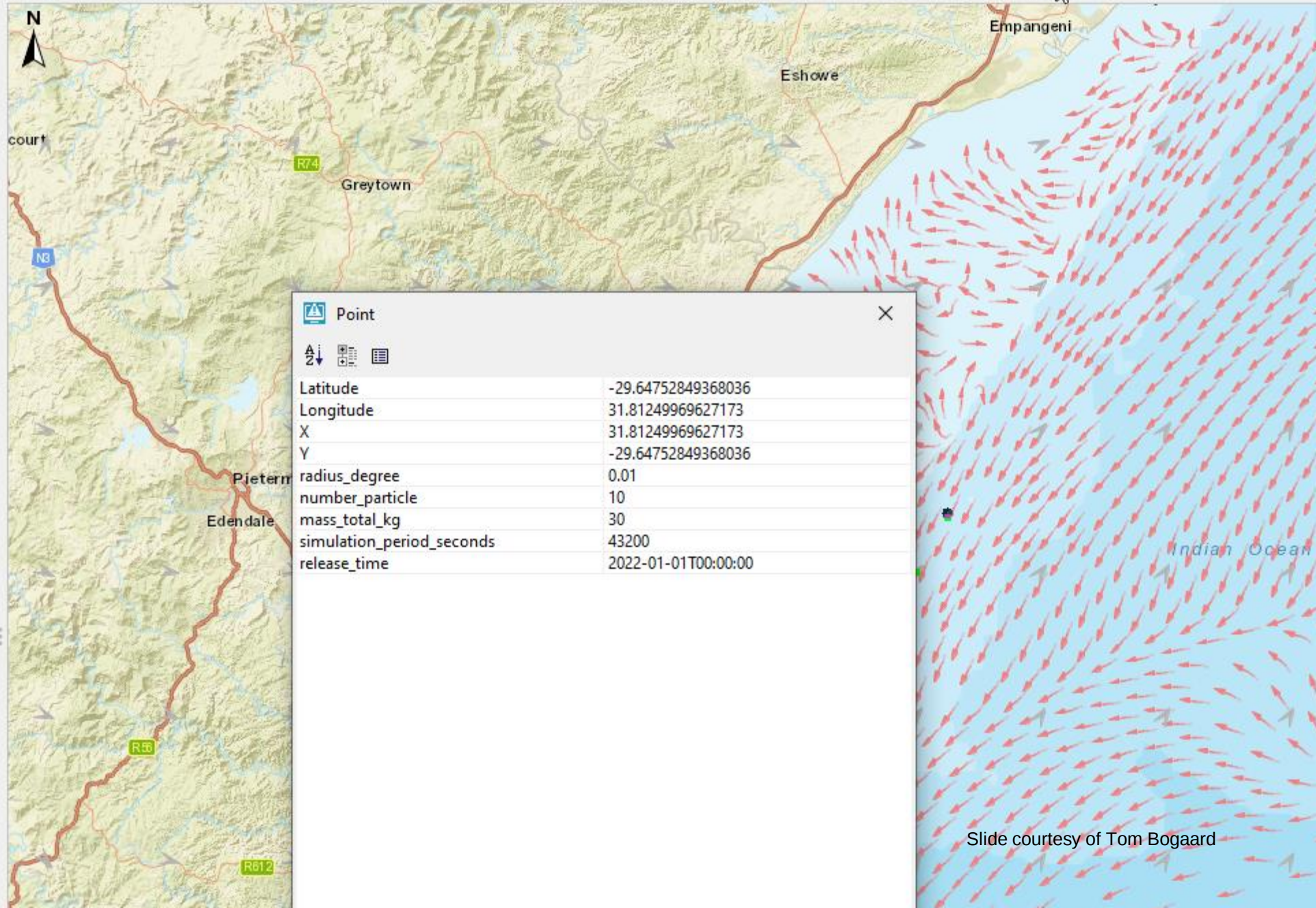
Introduction



Zoom extents



- > External Forecast
- > Radar
- > Delft3D FM Model (2DH)
- > Delft3D FM Flow Model (3D)
- > ☒ Delft3D FM Flow + Waq Model (3D)
- > SWAN Model
- > ☒ Particle Tracking
 - ☒ Particle Tracking
 - ☒ Particle Tracking - currents
- > Hazard map
- > Inundation



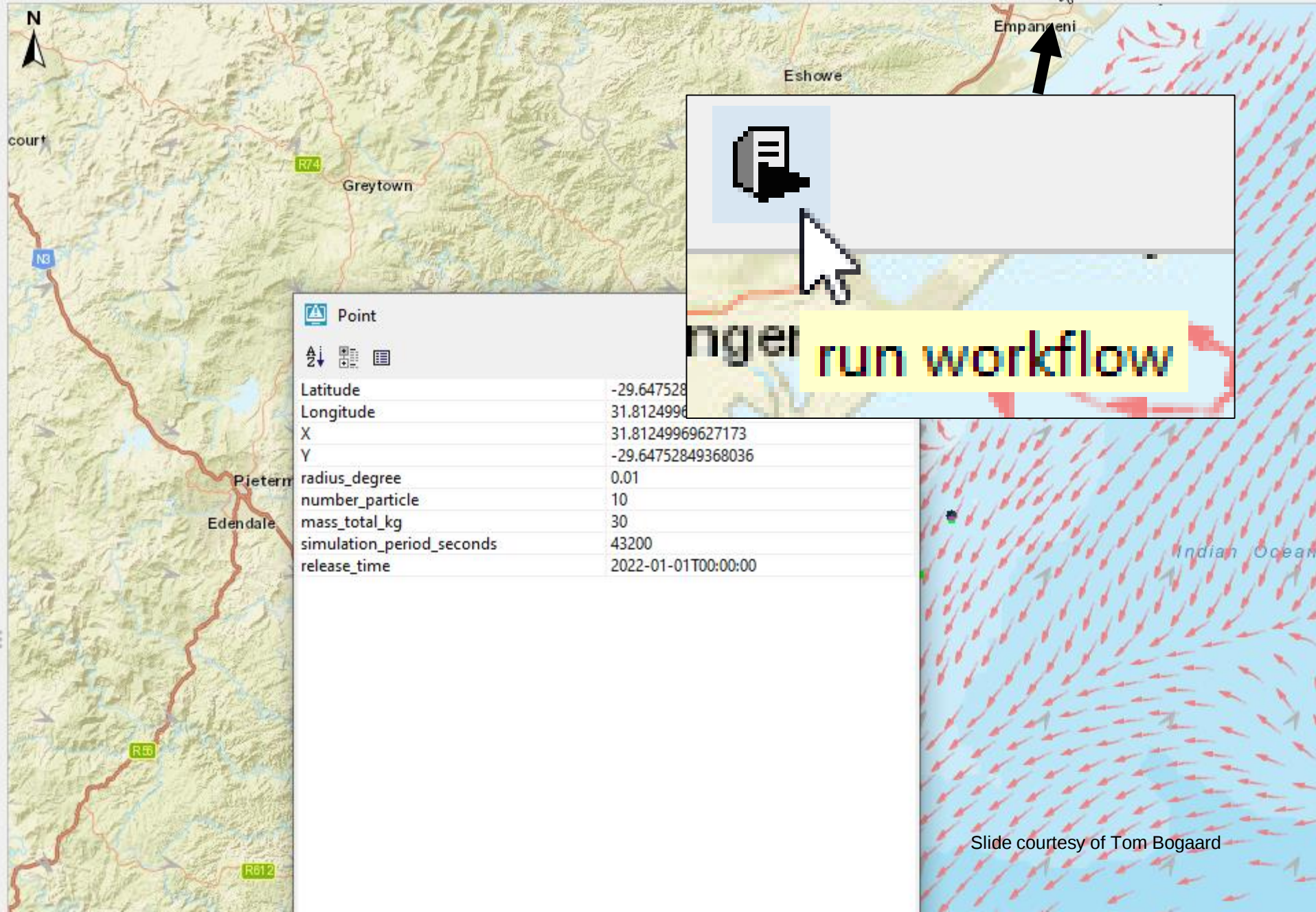
Point	
Latitude	-29.64752849368036
Longitude	31.81249969627173
X	31.81249969627173
Y	-29.64752849368036
radius_degree	0.01
number_particle	10
mass_total_kg	30
simulation_period_seconds	43200
release_time	2022-01-01T00:00:00



Zoom extents



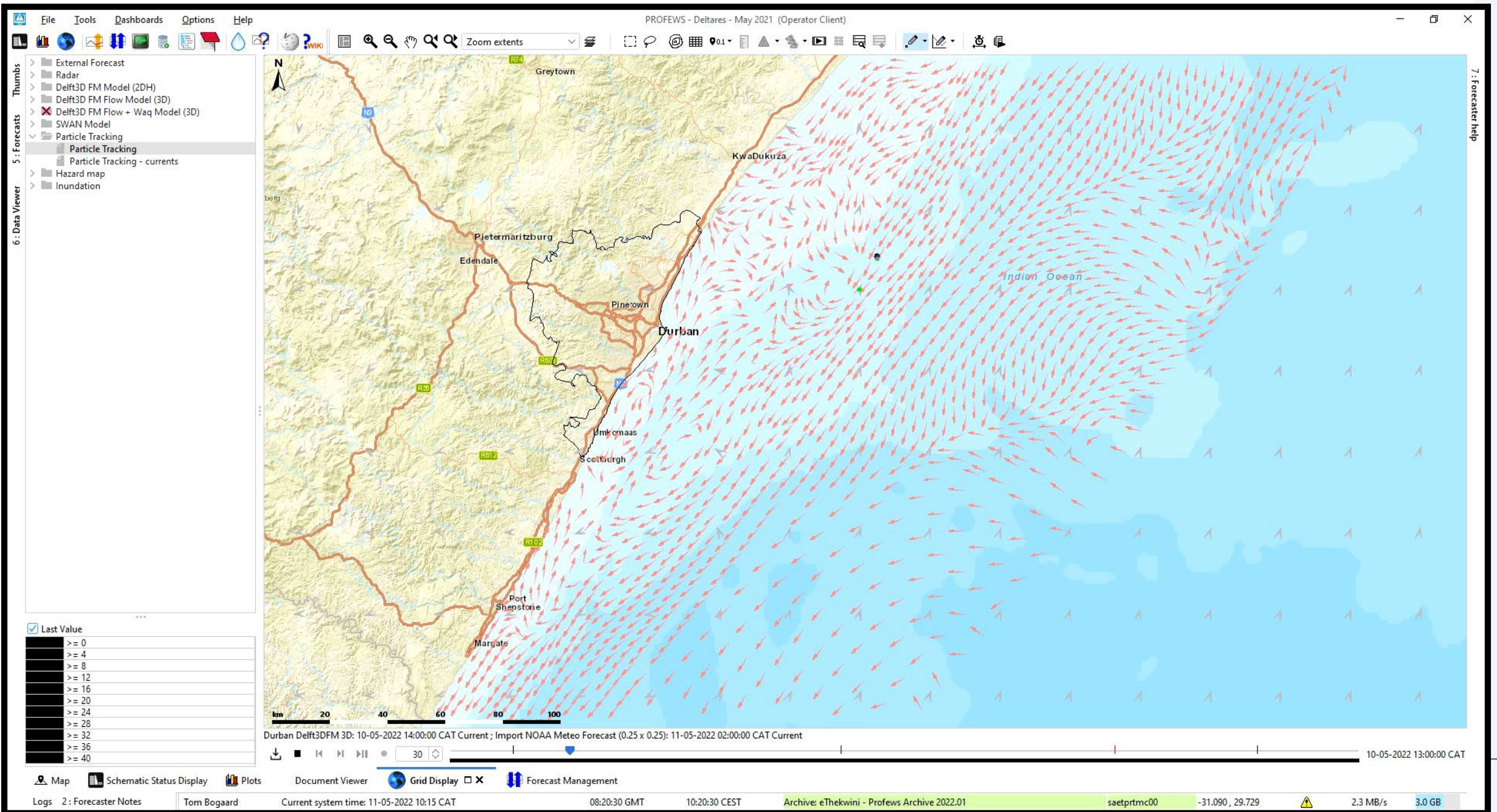
- > External Forecast
- > Radar
- > Delft3D FM Model (2DH)
- > Delft3D FM Flow Model (3D)
- > ☒ Delft3D FM Flow + Waq Model (3D)
- > SWAN Model
- ✓ Particle Tracking
 - Particle Tracking
 - Particle Tracking - currents
- > Hazard map
- > Inundation



Point

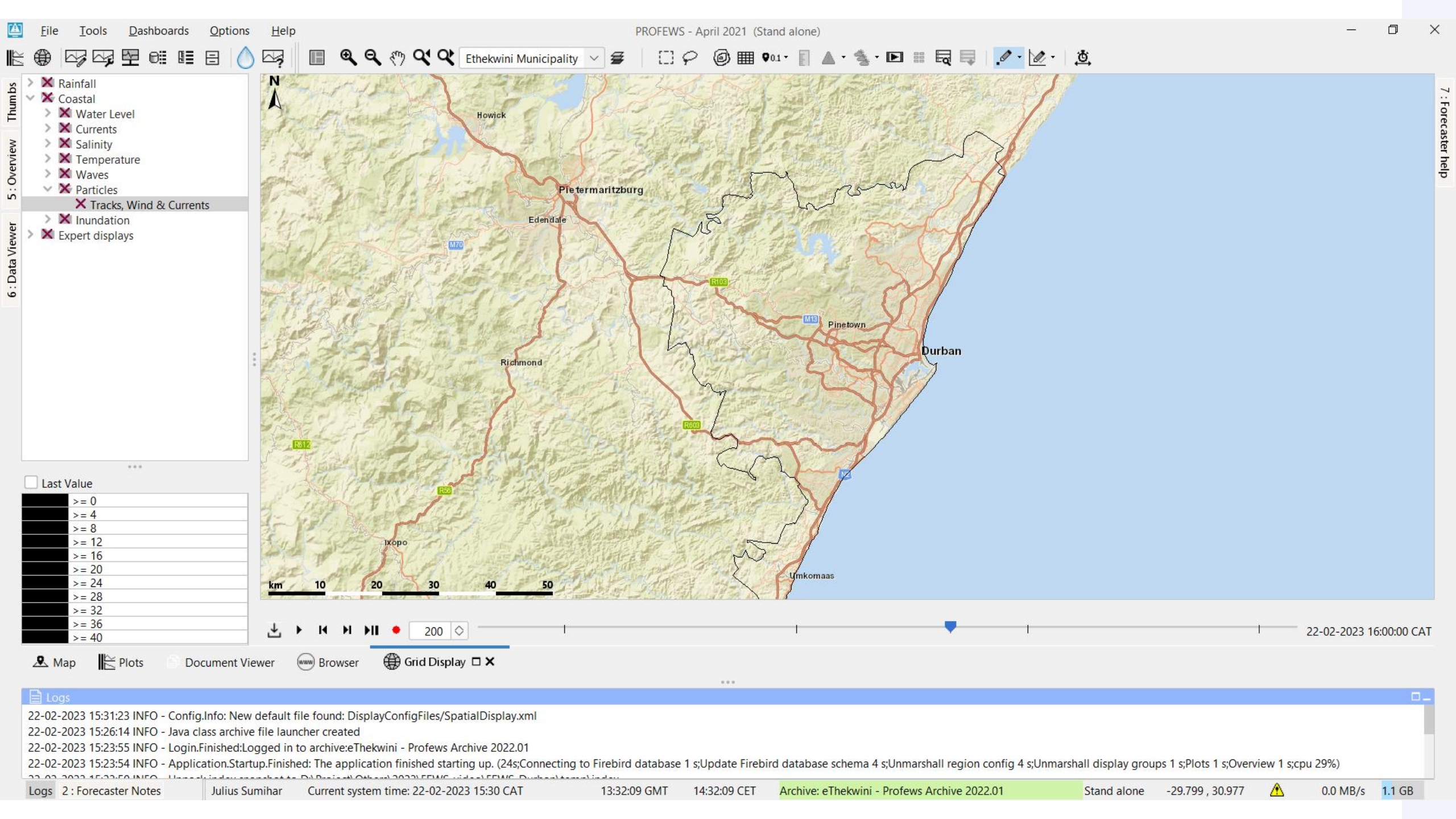


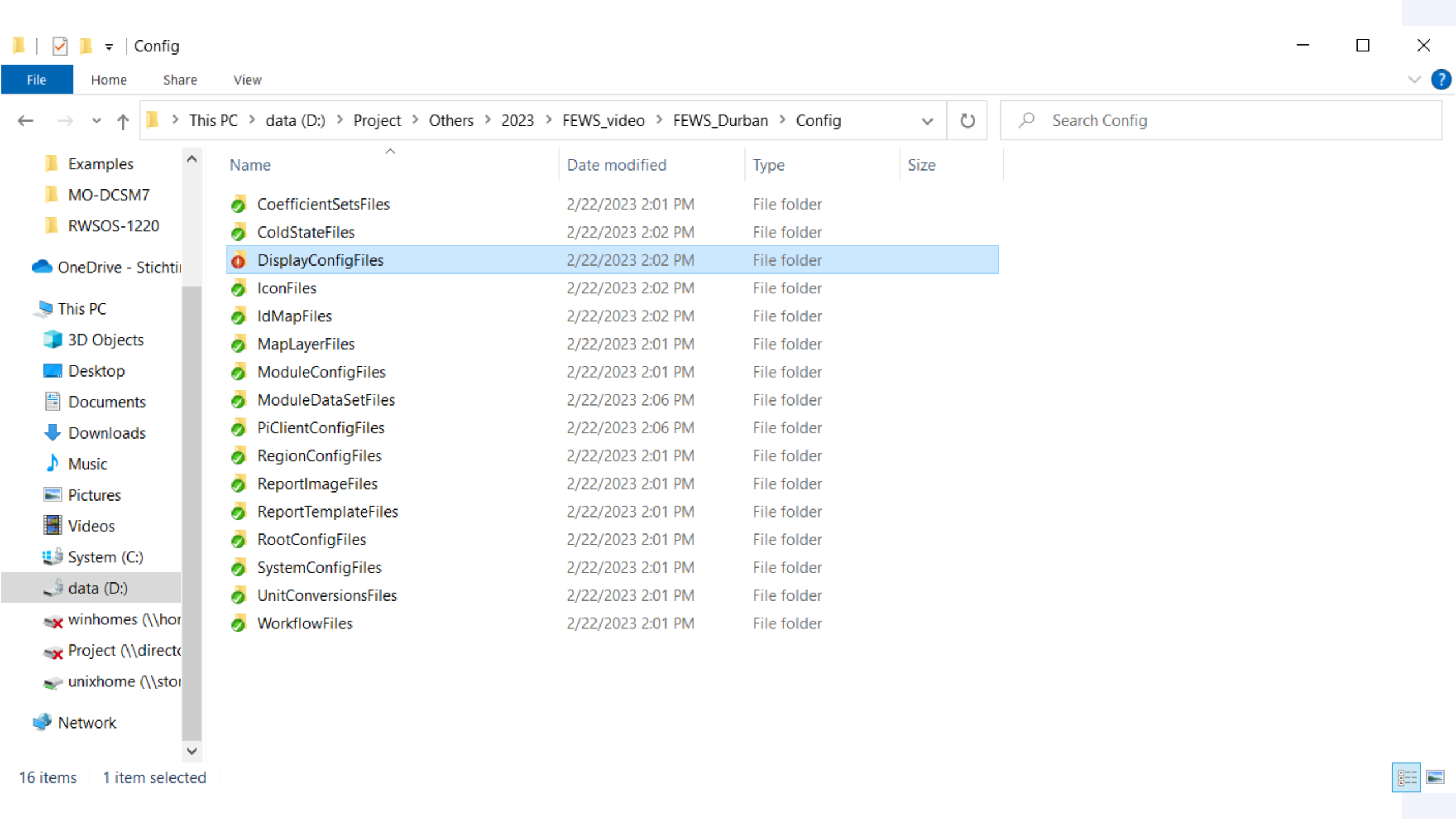
Latitude	-29.647528
Longitude	31.8124996
X	31.812499627173
Y	-29.64752849368036
radius_degree	0.01
number_particle	10
mass_total_kg	30
simulation_period_seconds	43200
release_time	2022-01-01T00:00:00



courtesy of Tom Bogaard

Basic configuration







Project

- Examples
 - PXF (Portable XML Forms)
 - Expense Report
 - Authentic Scripting
 - International
 - Purchase Order
 - MapForce
 - IndustryStandards
 - XBRL Examples
 - XML-based Website
 - ZIP Archives
 - EPUB Examples
 - XQuery
 - XSLT2
 - Office2007
 - HTML5

Info

Element Model
gridPlotGroup sequence

edited with XMLSpy v2014 rel. 2 sp1 (http://www.altova.com) by Afdeling ICT (Stichting Deltares)

ay

= xmlns	http://www.widelft.nl/fews
= xmlns:xsi	http://www.w3.org/2001/XMLSchema-instance
= xsi:schemaLocation	http://www.widelft.nl/fews http://fews.widelft.nl/schemas/version1.0/gridDisplay.xsd
<> title	PROFEWS

defaults (3)

gridPlotGroup (3)

	= id	= name	<> gridPlot	<> gridPlotGroup
1	precipitation	Rainfall	gridPlot (7)	
2	coastal	Coastal		
3	expert	Expert displays		

gridPlotGroup (7)

	= id	= name	<> gridPlot
1	water_level	Water Level	gridPlot (1)
2	currents	Currents	gridPlot (1)
3	salinity	Salinity	gridPlot (1)
4	temperature	Temperature	gridPlot (1)
5	waves	Waves	gridPlot (3)
6	particle_tracking	Particles	gridPlot (1)
7	inundation	Inundation	gridPlot (1)

	= id	= name	<> trackLayer	<> dataLayer
1	part	Tracks, Wind & Currents	trackLayer (2)	dataLayer

Elements

gridPlotGroup

Append Insert Add child

Attributes

Append Insert Add child

Entities

Ent amp	&
Ent apos	'
Ent gt	>
Ent lt	<
Ent quot	"

Append Insert Add child

Text Grid Schema WSDL XBRL Authentic Browser

SpatialDisplay.xml

Messages

File D:\Project\Others\2023\FEWS_video\FEWS_Durban\Config\DisplayConfigFiles\SpatialDisplay.xml is valid.

Info

Messages XPath XSL Outline Find in Files Find in Schemas Find in XBRL Charts

Altova XMLSpy - [SpatialDisplay.xml *]

FileEditProjectXMLDTD/SchemaSchema designXSL/XQueryAuthenticDBConvertViewBrowserToolsWindowHelp

Project

Examples

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- XSLT2
- Office2007
- HTML5

Info

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TextGridSchema

SpatialDisplay.xml *

Messages

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7

XPathXSL OutlineFind in FilesFind in SchemasFind in XBRLCharts

Messages

playConfigFiles\SpatialDisplay.xml is valid.

</dataLayer>

<dataLayer>

<arrowColor>B4B4B4</arrowColor>

<arrowSymbol>wind</arrowSymbol>

<multipleArrowsPerValue>true</multipleArrowsPerValue>

<arrowMinimumPixelDistanceBetweenTwoCellCenters>25</arrowMinimumPixelDistanceBetweenTwoCellCenters>

<uTimeSeriesSet>

<moduleInstanceld>InterpolateNOAAGFS25</moduleInstanceld>

<valueType>grid</valueType>

<parameterId>Wind.u</parameterId>

<locationId>Models.Wind</locationId>

<timeSeriesType>simulated forecasting</timeSeriesType>

<timeStep unit="hour"/>

<relativeViewPeriod unit="hour" start="-24" end="36"/>

<readWriteMode>add originals</readWriteMode>

</uTimeSeriesSet>

<vTimeSeriesSet>

<moduleInstanceld>InterpolateNOAAGFS25</moduleInstanceld>

<valueType>grid</valueType>

<parameterId>Wind.v</parameterId>

<locationId>Models.Wind</locationId>

<timeSeriesType>simulated forecasting</timeSeriesType>

<timeStep unit="hour"/>

<relativeViewPeriod unit="hour" start="-24" end="36"/>

<readWriteMode>add originals</readWriteMode>

</vTimeSeriesSet>

</dataLayer>

<classBreaksId>Class.Wind.Arrows</classBreaksId>

<wo

</w>

Elements

geoMap

classBreaksId

classBreaks

arrowClassBreaksId

arrowClassBreaks

absoluteDifferenceClassBreaksId

relativeDifferenceClassBreaksId

contourLinesColor

verticalSliderRange

workflow

description

mapExtentId

displayGroupPlotId

dataFeedId

logo

numberOfRecentForecasts

gapBetweenThumbnails

movieFrameDurationMillis

locationFilterAttributId

modifiedColor

legendStyle

Attributes

Entities

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Ent lt

Ent quot

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Altova X...

05 Spatial...

TextPad

PowerPoint

PROFEWS...

Snipping ...

ENG

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2/22/2023

Altova XMLSpy - [SpatialDisplay.xml]

FileEditProjectXMLDTD/SchemaSchema designXSL/XQueryAuthenticDBConvertViewBrowserToolsWindowHelp

Project

Examples

PDF (Portable XML Forms)

Expense Report

Authentic Scripting

International

Purchase Order

MapForce

Industry Standards

XBRL Examples

XML-based Website

ZIP Archives

Epub Examples

XQuery

XSLT2

Office2007

HTML5

Info

Element	workflowId
Datatype	idStringType
minLength	1
maxLength	64
white Space	preserve
Annotation	id of the workflow

2191920219222324252627282930313233343536373839404142434445464748

<arrowColor>B4B4B4</arrowColor>

<arrowSymbol>wind</arrowSymbol>

<multipleArrowsPerValue>true</multipleArrowsPerValue>

<arrowMinimumPixelDistanceBetweenTwoCellCenters>25</arrowMinimumPixelDistanceBetweenTwoCellCenters>

<uTimeSeriesSet>

<moduleInstanceld>InterpolateNOAAGFS25</moduleInstanceld>

<valueType>grid</valueType>

<parameterId>Wind.u</parameterId>

<locationId>Models.Wind</locationId>

<timeSeriesType>simulated forecasting</timeSeriesType>

<timeStep unit="hour"/>

<relativeViewPeriod unit="hour" start="-24" end="36"/>

<readWriteMode>add originals</readWriteMode>

</uTimeSeriesSet>

<vTimeSeriesSet>

<moduleInstanceld>InterpolateNOAAGFS25</moduleInstanceld>

<valueType>grid</valueType>

<parameterId>Wind.v</parameterId>

<locationId>Models.Wind</locationId>

<timeSeriesType>simulated forecasting</timeSeriesType>

<timeStep unit="hour"/>

<relativeViewPeriod unit="hour" start="-24" end="36"/>

<readWriteMode>add originals</readWriteMode>

</vTimeSeriesSet>

</dataLayer>

<classBreaksId>Class.Wind.Arrows</classBreaksId>

<workflow>

<workflowId>RunParticleTracking</workflowId>

</workflow>

</GridPlot>

TextGridSchemaWSDLXBRLAuthenticBrowser

SpatialDisplay.xml

Messages

12345678910

File D:\Project\Others\2023\FEWS_video\FEWS_Durban\Config\DisplayConfigFiles\SpatialDisplay.xml is valid.

Info

MessagesXPathXSL OutlineFind in FilesFind in SchemasFind in XBRLCharts

Elements

Attributes

Entities

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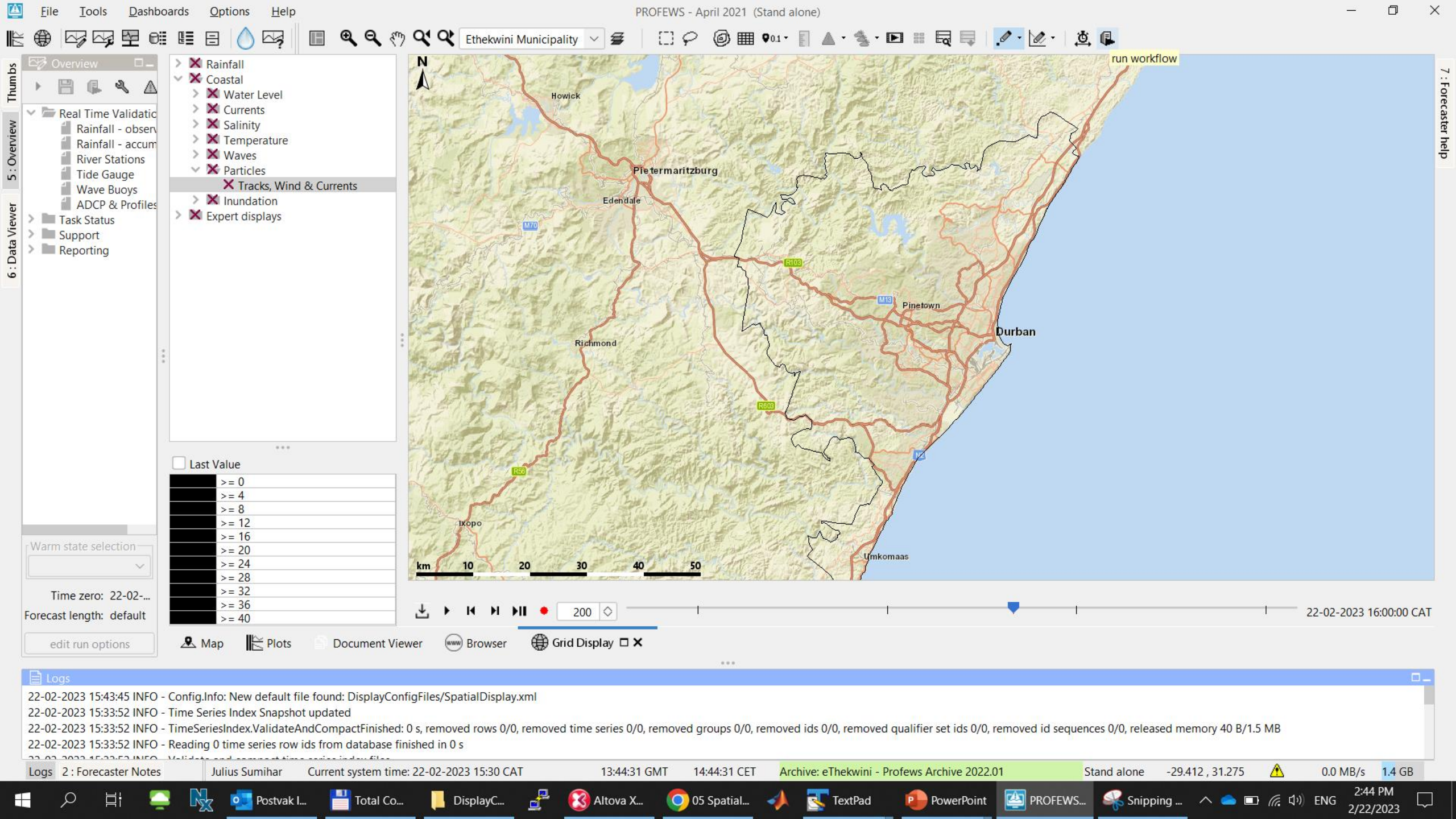
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FileToolsDashboardsOptionsHelp

Overview

Thumbs

5 : Overview

6 : Data Viewer

Real Time Validation

Rainfall - observ

Rainfall - accum

River Stations

Tide Gauge

Wave Buoys

ADCP & Profiles

Task Status

Support

Reporting

Warm state selection

Time zero: 22-02-...

Forecast length: default

edit run options

Rainfall

Coastal

Water Level

Currents

Salinity

Temperature

Waves

Particles

Tracks, Wind & Currents

Inundation

Expert displays

Last Value

>= 0

>= 4

>= 8

>= 12

>= 16

>= 20

>= 24

>= 28

>= 32

>= 36

>= 40

Ethekwini Municipality

MapPlotsDocument ViewerBrowserGrid Display

PROFEWS - April 2021 (Stand alone)

22-02-2023 15:45:15 INFO - Invalid point selected in spatial display. Cannot show extracted time series in time series display.

22-02-2023 15:43:45 INFO - Config.Info: New default file found: DisplayConfigFiles/SpatialDisplay.xml

22-02-2023 15:33:52 INFO - Time Series Index Snapshot updated

22-02-2023 15:33:52 INFO - TimeSeriesIndex.ValidateAndCompactFinished: 0 s, removed rows 0/0, removed time series 0/0, removed groups 0/0, removed ids 0/0, removed qualifier set ids 0/0, removed id sequences 0/0, released memory 40 B/1.5 MB

22-02-2023 15:33:52 INFO - Reading 0 time series from database finished in 0 s

Logs2 : Forecaster NotesJulius SumiharCurrent system time: 22-02-2023 15:45 CAT13:45:27 GMT14:45:27 CETArchive: eThekweni - Profews Archive 2022.01Stand alone-29.418 , 31.1710.0 MB/s1.3 GB

Point

Latitude-29.80393

Longitude31.21860

X31.22

Y-29.80

OKCancel

22-02-2023 16:00:00 CAT

Altova XMLSpy - [SpatialDisplay.xml *]

FileEditProjectXMLDTD/SchemaSchema designXSL/XQueryAuthenticDBConvertViewBrowserToolsWindowHelp

Project

Examples

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Purchase Order

MapForce

Industry Standards

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XQuery

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Office2007

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Text

Grid

Schema

<arrowColor>B4B4B4</arrowColor>

<arrowSymbol>wind</arrowSymbol>

<multipleArrowsPerValue>true</multipleArrowsPerValue>

<arrowMinimumPixelDistanceBetweenTwoCellCenters>25</arrowMinimumPixelDistanceBetweenTwoCellCenters>

<uTimeSeriesSet>

<moduleInstanceld>InterpolateNOAAGFS25</moduleInstanceld>

<valueType>grid</valueType>

<parameterId>Wind.u</parameterId>

<locationId>Models.Wind</locationId>

<timeSeriesType>simulated forecasting</timeSeriesType>

<timeStep unit="hour"/>

<relativeViewPeriod unit="hour" start="-24" end="36"/>

<readWriteMode>add originals</readWriteMode>

</uTimeSeriesSet>

<vTimeSeriesSet>

<moduleInstanceld>InterpolateNOAAGFS25</moduleInstanceld>

<valueType>grid</valueType>

<parameterId>Wind.v</parameterId>

<locationId>Models.Wind</locationId>

<timeSeriesType>simulated forecasting</timeSeriesType>

<timeStep unit="hour"/>

<relativeViewPeriod unit="hour" start="-24" end="36"/>

<readWriteMode>add originals</readWriteMode>

</vTimeSeriesSet>

</dataLayer>

<classBreaksId>Class.Wind.Arrows</classBreaksId>

<workflow>

<workflowId>RunParticleTracking</workflowId>

</h>

sketchType

properties

roundDisplayedCoordinatesToCentimeters

Elements

sketchType

properties

roundDisplayedCoordinatesToCentimeters

workflowId

Attributes

Entities

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Messages

XPath

XSL Outline

Find in Files

Find in Schemas

Find in XBRL

Charts

File D:\Project\Others\2023\FEWS_video\FEWS_Durban\Config\DisplayConfigFiles\SpatialDisplay.xml is valid.

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Altova XMLSpy - [SpatialDisplay.xml]

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- ZIP Archives
- EPUB Examples
- XQuery
- XSLT2
- Office2007
- HTML5

Info

Attribute	value
Occurrence	required
Datatype	string
white Space	preserve

29212223242526272829303132333435363738394041424344454647484950

```
<multipleArrowsPerValue>true</multipleArrowsPerValue>
<arrowMinimumPixelDistanceBetweenTwoCellCenters>25</arrowMinimumPixelDistanceBetweenTwoCellCenters>
<uTimeSeriesSet>
  <moduleInstanceld>InterpolateNOAAGFS25</moduleInstanceld>
  <valueType>grid</valueType>
  <parameterId>Wind.u</parameterId>
  <locationId>Models.Wind</locationId>
  <timeSeriesType>simulated forecasting</timeSeriesType>
  <timeStep unit="hour"/>
  <relativeViewPeriod unit="hour" start="-24" end="36"/>
  <readWriteMode>add originals</readWriteMode>
</uTimeSeriesSet>
<vTimeSeriesSet>
  <moduleInstanceld>InterpolateNOAAGFS25</moduleInstanceld>
  <valueType>grid</valueType>
  <parameterId>Wind.v</parameterId>
  <locationId>Models.Wind</locationId>
  <timeSeriesType>simulated forecasting</timeSeriesType>
  <timeStep unit="hour"/>
  <relativeViewPeriod unit="hour" start="-24" end="36"/>
  <readWriteMode>add originals</readWriteMode>
</vTimeSeriesSet>
</dataLayer>
<classBreaksId>Class.Wind.Arrows</classBreaksId>
<workflow>
  <workflowId>RunParticleTracking</workflowId>
  <properties>
    <string key="number_particle" value="100"/>
  </properties>
</workflow>

```

TextGridSchemaWSDLXBRLAuthenticBrowser

SpatialDisplay.xml

Messages

File D:\Project\Others\2023\FEWS_video\FEWS_Durban\Config\DisplayConfigFiles\SpatialDisplay.xml is valid.

MessagesXPathXSL OutlineFind in FilesFind in SchemasFind in XBRLCharts

Elements

gridDisplay

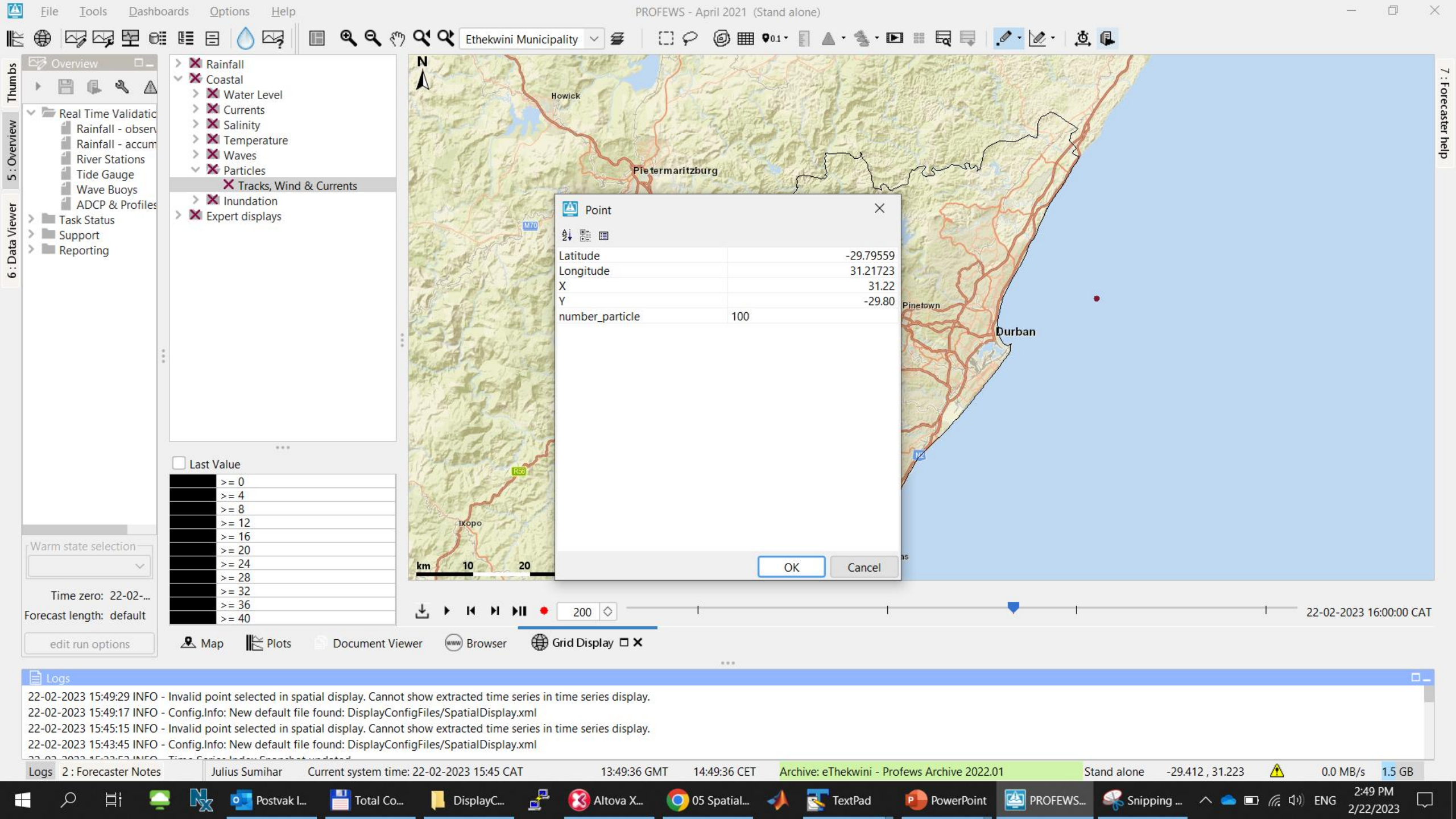
Attributes

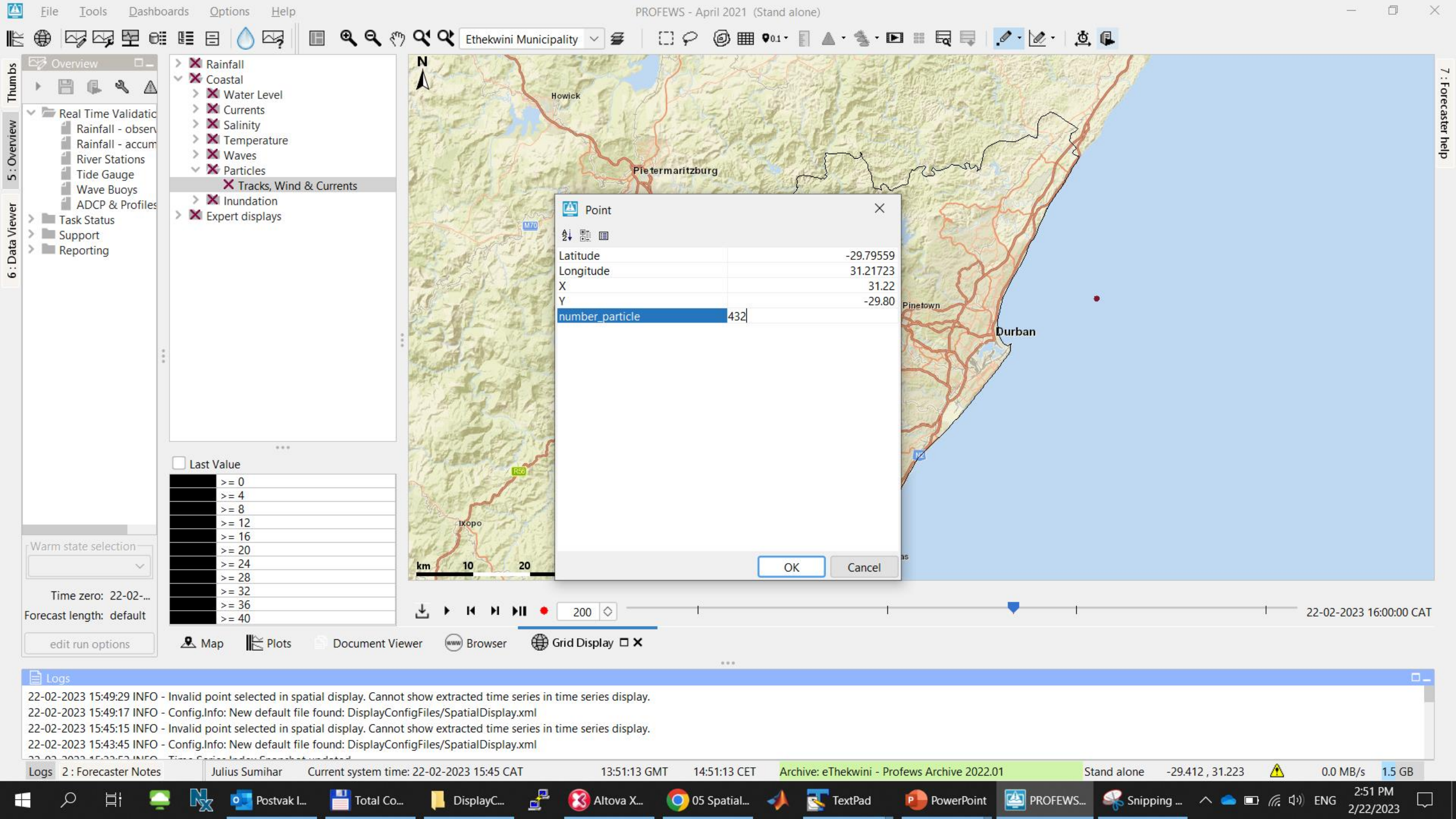
xsi:typekeyvalue

Entities

Ent amp&Ent apos'Ent gt>Ent lt<Ent quot"

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Altova XMLSpy - [SpatialDisplay.xml]

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- ZIP Archives
- EPUB Examples
- XQuery
- XSLT2
- Office2007
- HTML5

Info

Element

Model

properties

sequence

29252627282930313233343536373839404142434445464748495051525354

```
<valueType>grid</valueType>
<parameterId>Wind.u</parameterId>
<locationId>Models.Wind</locationId>
<timeSeriesType>simulated forecasting</timeSeriesType>
<timeStep unit="hour"/>
<relativeViewPeriod unit="hour" start="-24" end="36"/>
<readWriteMode>add originals</readWriteMode>
</uTimeSeriesSet>
<vTimeSeriesSet>
  <moduleInstanceId>InterpolateNOAAGFS25</moduleInstanceId>
  <valueType>grid</valueType>
  <parameterId>Wind.v</parameterId>
  <locationId>Models.Wind</locationId>
  <timeSeriesType>simulated forecasting</timeSeriesType>
  <timeStep unit="hour"/>
  <relativeViewPeriod unit="hour" start="-24" end="36"/>
  <readWriteMode>add originals</readWriteMode>
</vTimeSeriesSet>
</dataLayer>
<classBreaksId>Class.Wind.Arrows</classBreaksId>
<workflow>
  <workflowId>RunParticleTracking</workflowId>
  <properties>
    <string key="number_particle" value="100"/>
    <string key="simulation_period_seconds" value="43200|86400|129600"/>
  </properties>
</workflow>
</gridPlot>
</gridPlotGroup>
<gridPlotGroup id="inundation" name="Inundation">
```

TextGridSchemaWSDLXBRLAuthenticBrowser

SpatialDisplay.xml

Messages

1File D:\Project\Others\2023\FEWS_video\FEWS_Durban\Config\DisplayConfigFiles\SpatialDisplay.xml is valid.

Info

MessagesXPathXSL OutlineFind in FilesFind in SchemasFind in XBRLCharts

Elements

- string
- int
- float
- double
- bool
- dateTime
- description

Attributes

Entities

- Ent amp
- Ent apos
- Ent gt
- Ent lt
- Ent quot

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FileToolsDashboardsOptionsHelp

Overview

Thumbs

5 : Overview

6 : Data Viewer

Real Time Validation

Rainfall - observ

Rainfall - accum

River Stations

Tide Gauge

Wave Buoys

ADCP & Profiles

Task Status

Support

Reporting

Warm state selection

Time zero: 22-02-...

Forecast length: default

edit run options

Rainfall

Coastal

Water Level

Currents

Salinity

Temperature

Waves

Particles

Tracks, Wind & Currents

Inundation

Expert displays

Last Value

>= 0

>= 4

>= 8

>= 12

>= 16

>= 20

>= 24

>= 28

>= 32

>= 36

>= 40

Map

Plots

Document Viewer

Browser

Grid Display

22-02-2023 15:54:36 INFO - Invalid point selected in spatial display. Cannot show extracted time series in time series display.

22-02-2023 15:54:30 INFO - Config.Info: New default file found: DisplayConfigFiles/SpatialDisplay.xml

22-02-2023 15:49:29 INFO - Invalid point selected in spatial display. Cannot show extracted time series in time series display.

22-02-2023 15:49:17 INFO - Config.Info: New default file found: DisplayConfigFiles/SpatialDisplay.xml

22-02-2023 15:45:15 INFO - Invalid point selected in spatial display. Cannot show extracted time series in time series display.

Logs

2 : Forecaster Notes

Julius Sumihar

Current system time: 22-02-2023 15:45 CAT

13:54:47 GMT

14:54:47 CET

Archive: eThekwin - Profews Archive 2022.01

Stand alone

-29.414 , 31.216

0.0 MB/s

1.7 GB

PROFEWS - April 2021 (Stand alone)

Ethekwini Municipality

Point

Latitude-29.84444

Longitude31.17328

X31.17

Y-29.84

number_particle100

simulation_period_seconds43200

43200

86400

129600

OK

Cancel

Map

Plots

Document Viewer

Browser

Grid Display

22-02-2023 15:54:36 INFO - Invalid point selected in spatial display. Cannot show extracted time series in time series display.

22-02-2023 15:54:30 INFO - Config.Info: New default file found: DisplayConfigFiles/SpatialDisplay.xml

22-02-2023 15:49:29 INFO - Invalid point selected in spatial display. Cannot show extracted time series in time series display.

22-02-2023 15:49:17 INFO - Config.Info: New default file found: DisplayConfigFiles/SpatialDisplay.xml

22-02-2023 15:45:15 INFO - Invalid point selected in spatial display. Cannot show extracted time series in time series display.

Logs

2 : Forecaster Notes

Julius Sumihar

Current system time: 22-02-2023 15:45 CAT

13:54:47 GMT

14:54:47 CET

Archive: eThekwin - Profews Archive 2022.01

Stand alone

-29.414 , 31.216

0.0 MB/s

1.7 GB

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- EPUB Examples
- XQuery
- XSLT2
- Office2007
- HTML5

Info

Element	properties
Model	sequence

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963

<moduleInstanceld>InterpolateNOAAGFS25</moduleInstanceld>

<valueType>grid</valueType>

<parameterId>Wind.v</parameterId>

<locationId>Models.Wind</locationId>

<timeSeriesType>simulated forecasting</timeSeriesType>

<timeStep unit="hour"/>

<relativeViewPeriod unit="hour" start="-24" end="36"/>

<readWriteMode>add originals</readWriteMode>

</vTimeSeriesSet>

</dataLayer>

<classBreaksId>Class.Wind.Arrows</classBreaksId>

<workflow>

<workflowId>RunParticleTracking</workflowId>

<properties>

<string key="radius_degree" value="0.01"/>

<string key="number_particle" value="10"/>

<string key="mass_total_kg" value="30"/>

<string key="simulation_period_seconds" value="43200|86400|129600"/>

<string key="release_time" value="2022-01-01T00:00:00"/>

</properties>

</workflow>

</gridPlot>

</gridPlotGroup>

<gridPlotGroup id="inundation" name="Inundation">

<gridPlot id="inundation_fa" name="Flood Analysis">

<dataLayer>

<timeSeriesSet>

<moduleInstanceld>InundationEnsemble</moduleInstanceld>

<valueType>grid</valueType>

<parameterId>WD simulated</parameterId>

TextGridSchemaWSDLXBRLAuthenticBrowser

SpatialDisplay.xml

Messages

- File D:\Project\Others\2023\FEWS_video\FEWS_Durban\Config\DisplayConfigFiles\SpatialDisplay.xml is valid.

MessagesXPathXSL OutlineFind in FilesFind in SchemasFind in XBRLCharts

Elements

- string
- int
- float
- double
- bool
- dateTime
- description

Attributes

Entities

- Ent amp
- Ent apos
- Ent gt
- Ent lt
- Ent quot

Ln 953, Col 1CAPNUMSCRL

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Altova XMLSpy

Google

TextPad

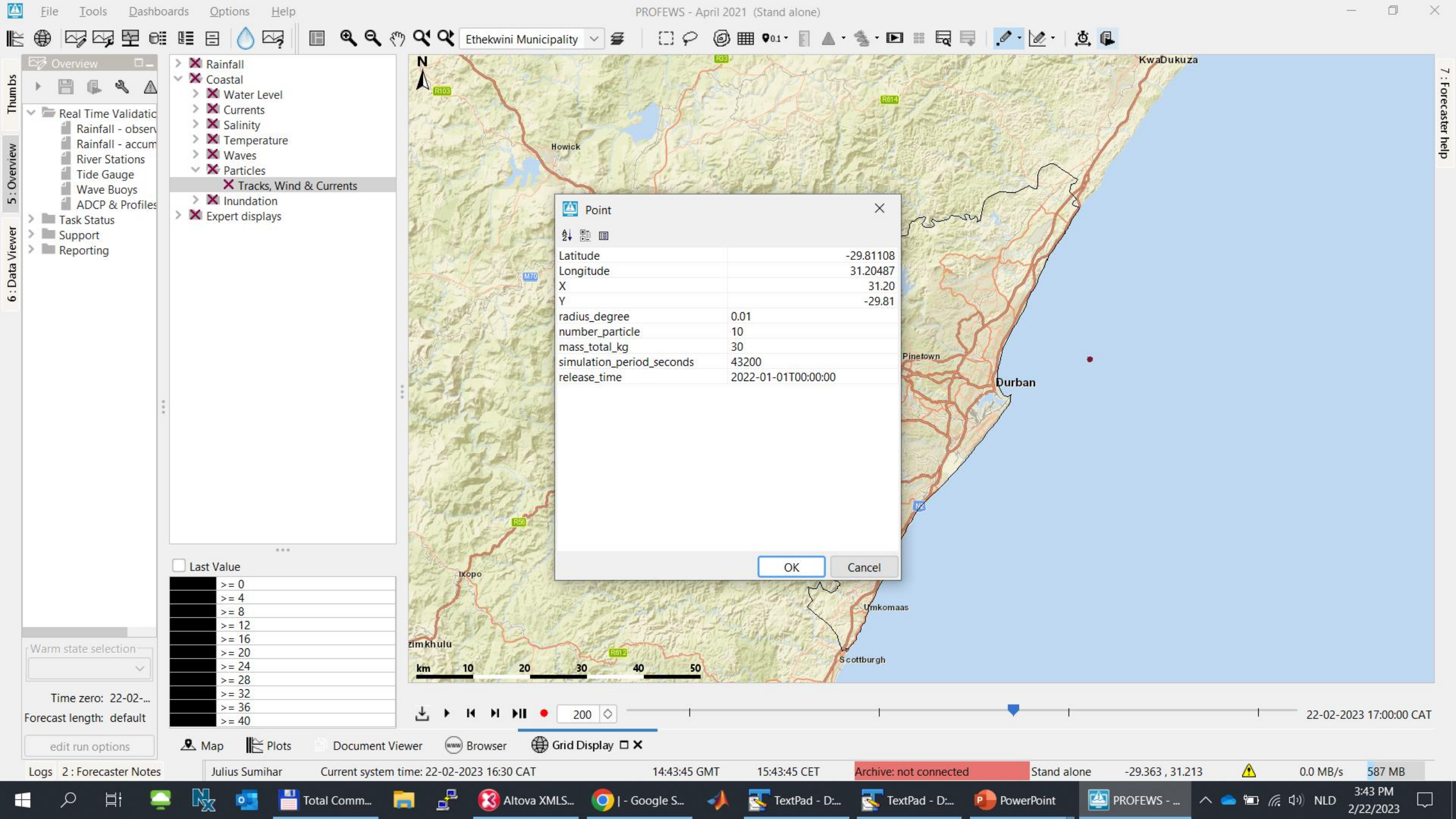
20220222

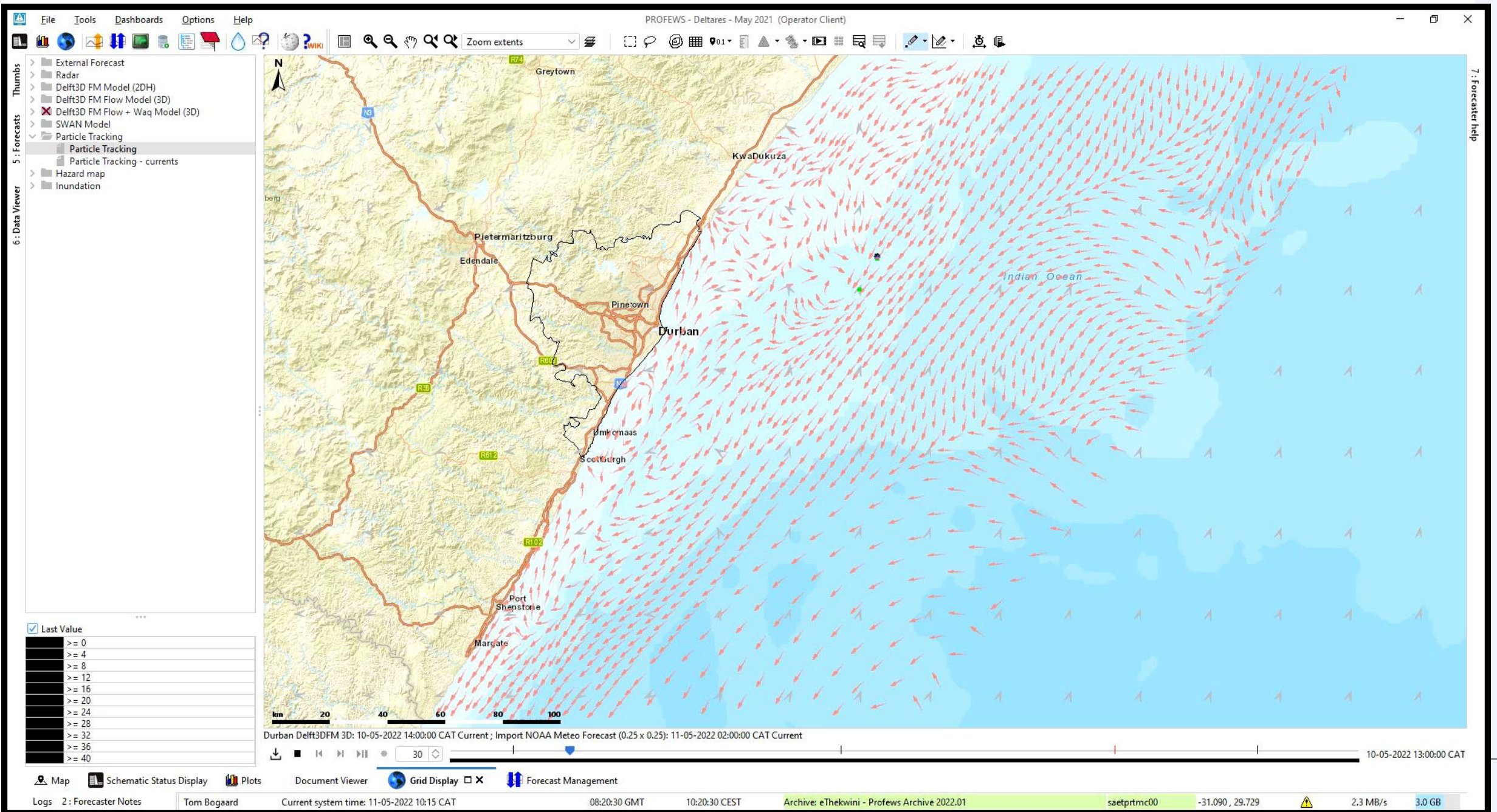
20220511

PowerPoint

3:41 PM

2/22/2023



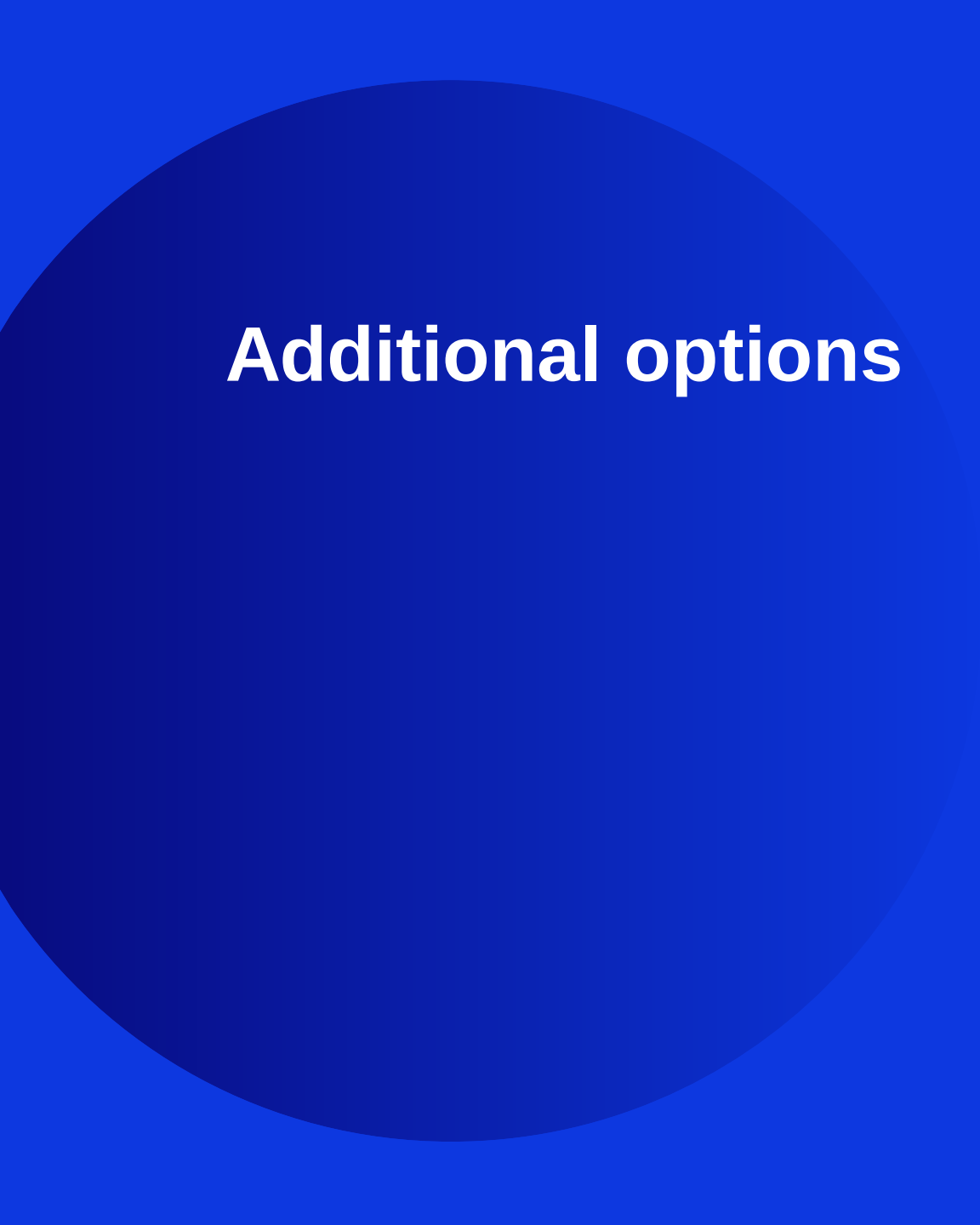


courtesy of Tom Bogaard

Links to more info

Deltares wiki page regarding workflows in the Spatial Display

<https://publicwiki.deltares.nl/display/FEWSDOC/01+Grid+Display#id-01GridDisplay-workflow>



Additional options

Altova XMLSpy - [SpatialDisplay.xml *]

FileEditProjectXMLDTD/SchemaSchema designXSL/XQueryAuthenticDBConvertViewBrowserToolsWindowHelp

Project

Examples

PXF (Portable XML Forms)

Expense Report

Authentic Scripting

International

Purchase Order

MapForce

IndustryStandards

XBRL Examples

XML-based Website

ZIP Archives

EPUB Examples

XQuery

XSLT2

Office2007

HTML5

Info

931<readWriteMode>add originals</readWriteMode>

932</uTimeSeriesSet>

933<vTimeSeriesSet>

934<moduleInstanceld>InterpolateNOAAGFS25</moduleInstanceld>

935<valueType>grid</valueType>

936<parameterId>Wind.v</parameterId>

937<locationId>Models.Wind</locationId>

938<timeSeriesType>simulated forecasting</timeSeriesType>

939<timeStep unit="hour"/>

940<relativeViewPeriod unit="hour" start="-24" end="36"/>

941<readWriteMode>add originals</readWriteMode>

942</vTimeSeriesSet>

943</dataLayer>

944<classBreaksId>Class.Wind.Arrows</classBreaksId>

945<workflow>

946<workflowId>RunParticleTracking</workflowId>

947<s

948<sketchTypeValidates the drawn sketch. Only a polygon sketch or a single point sketch is supported

949<properties

950<roundDisplayedCoordinatesToCentimeters

951<string key="mass_total_kg" value="30"/>

952<string key="simulation_period_seconds" value="43200|86400|129600"/>

953<string key="release_time" value="2022-01-01T00:00:00"/>

954</properties>

955</workflow>

956</gridPlot>

957</gridPlotGroup>

958<gridPlotGroup id="inundation" name="Inundation">

959<gridPlot id="inundation_fa" name="Flood Analysis">

960</dataLayer>

TextGridSchemaWSDLXBRLAuthenticBrowser

SpatialDisplay.xml *

Messages

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File D:\Project\Others\2023\FEWS_video\FEWS_Durban\Config\ModuleConfigFiles\Particles\RunParticleTracking.xml is valid.

Elements

sketchType

properties

roundDisplayedCoordinatesToCentimeter

workflowId

Attributes

Entities

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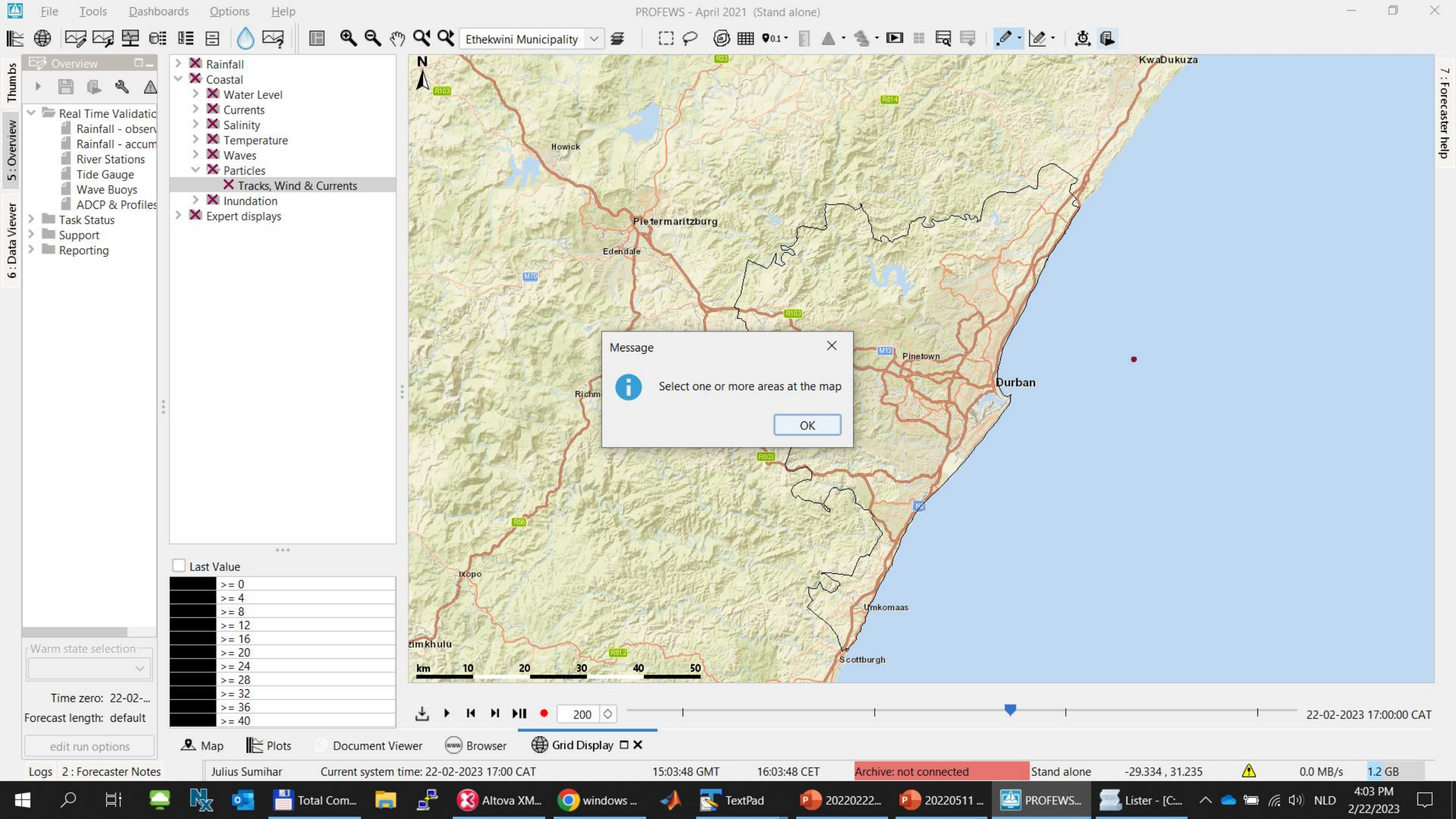
Ent lt

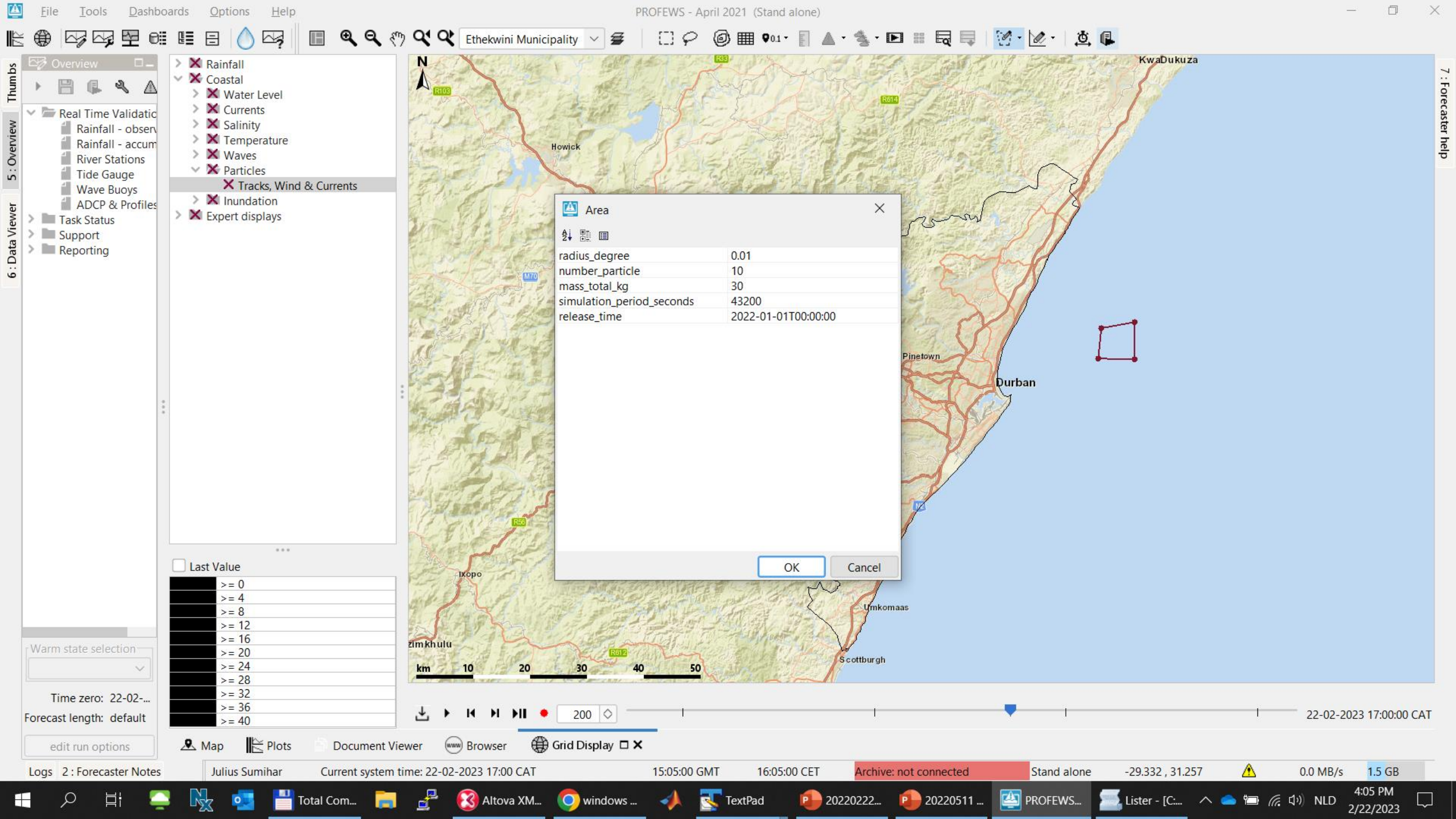
Ent quot

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Altova XM...windows...TextPad20220222...20220511...PROFEWS...Lister - [C...NLD4:01 PM2/22/2023





Altova XMLSpy - [SpatialDisplay.xml *]

FileEditProjectXMLDTD/SchemaSchema designXSL/XQueryAuthenticDBConvertViewBrowserToolsWindowHelp

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HTML5

Info

Element	roundDisplayedCoordinatesToCentimeter
Default	true
Datatype	boolean
White Space	collapse

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<readWriteMode>add originals</readWriteMode>

</uTimeSeriesSet>

<vTimeSeriesSet>

<moduleInstanceId>InterpolateNOAAGFS25</moduleInstanceId>

<valueType>grid</valueType>

<parameterId>Wind.v</parameterId>

<locationId>Models.Wind</locationId>

<timeSeriesType>simulated forecasting</timeSeriesType>

<timeStep unit="hour"/>

<relativeViewPeriod unit="hour" start="-24" end="36"/>

<readWriteMode>add originals</readWriteMode>

</vTimeSeriesSet>

</dataLayer>

<classBreaksId>Class.Wind.Arrows</classBreaksId>

<workflow>

<workflowId>RunParticleTracking</workflowId>

<sketchType>polygon</sketchType>

<properties>

<string key="radius_degree" value="0.01"/>

<string key="number_particle" value="10"/>

<string key="mass_total_kg" value="30"/>

<string key="simulation_period_seconds" value="43200|86400|129600"/>

<string key="release_time" value="2022-01-01T00:00:00"/>

</properties>

<roundDisplayedCoordinatesToCentimeters></roundDisplayedCoordinatesToCentimeters>

</workflow>

</gridPlot>

</gridPlotGroup>

<gridPlotGroup id="inundation" name="Inundation">

<gridPlot id="inundation_fa" name="Flood Analyse">

TextGridSchemaWSDLXBRLAuthenticBrowser

SpatialDisplay.xml *

Messages

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File D:\Project\Others\2023\FEWS_video\FEWS_Durban\Config\DisplayConfigFiles\SpatialDisplay.xml is valid.

Elements

Attributes

Entities

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Ln 955, Col 46CAPNUMSCRL

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Altova XM...

windows ...

TextPad

20220222...

20220511 ...

PROFEWS...

Lister - [C...

4:08 PM

2/22/2023

How workflow “properties” are used

File Edit Dashboards Options Help

EtheKwini Municipality

Thumbs

- > Rainfall
- > Coastal
 - > Water Level
 - > Currents
 - > Salinity
 - > Temperature
 - > Waves
- > Particles
 - > Tracks, Wind & C
 - > Inundation
 - > Expert displays

5 : Overview

6 : Data Viewer

Last Value

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>= 32
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>= 40

Point

Latitude	-29.81108
Longitude	31.20487
X	31.20
Y	-29.81
radius_degree	0.01
number_particle	10
mass_total_kg	30
simulation_period_seconds	43200
release_time	2022-01-01T00:00:00

OK Cancel

km 10 20 30 40 50

22-02-2023 17:00:00 CAT

Map Plots Document Viewer Browser Grid Display

Logs 2 : Forecaster Notes Julius S... Current system time: 22-... 14:58:... 15:58:... Archive: not ... Stand... -29.380 ... 0.0 ... 83...

TextPad - C:\Users\sumihar\AppData\Local\Temp\tc_\config_template.toml

File Edit Search View Tools Macros Configure Window Help

Find incrementally

config_template.toml

```
id = 1 # label particles with id per source, like 1 or [1, 2]
x = $Longitude$ # longitude like -69.0 or [-69.0, 70.0]
y = $Latitude$ # latitude like 35.0 or [35.0, 36.0]

nparticles = $number_particle$ # number of particles per source
total_mass = $mass_total_kg$ # summed mass of particles per source
radius = $radius_degree$ # initial spread in degrees
reftime = $release_time$ # reference time for simulation - default tstart=0
tstart = 0 # start time in seconds since reftime
tend = $simulation_period_seconds$ # 1983600=552hours flow data stops here
dt = 10 # timestep in seconds
datapath = "$FOLDER_DELFT3DFM_MAPS_FOR_PART$" # relative path of input files. Not

# surface currents
current_filetype="delft3d-fm" # valid types are "cmems", "delft3d-fm", "zero"
current_dir = "$FOLDER_DELFT3DFM_MAPS_FOR_PART$"
current_filename="kzn_map.nc" # separate files for u=east and v=north dirs
#current_y_filename="kzn_map.nc"

# winds
wind_filetype="zero" # valid types are "gfs", "delft3d-fm", "zero"
#wind_dir = "data/hindcast"
#wind_filename="gfs_winds.nc" # single for u=east and v=north dirs
#wind_x_filename="gfs_winds.nc" # or separate files for u=east and v=north dirs
#wind_y_filename="gfs_winds.nc"
#wind_x_var="lon" # variable for x-coordinate (default "x")
#wind_y_var="lat" # variable for y-coordinate (default "y")
#wind_x_wrap=true # shift longitudes from [0 360] to [-180 180] (default)

# Defaults

# Model
K = 500.0 # Eddy diffusion m2/s
```

Search Results

Search Results Tool Output

1 1 Read Ovr Block Sync Rec Caps

Contact

-  www.delft-fews.com
-  [@DelftFEWS](https://twitter.com/DelftFEWS)
-  linkedin.com/company/deltares
-  fews-pm@deltares.nl
-  [@deltares](https://www.instagram.com/deltares)
-  facebook.com/deltaresNL

