



WatchIt

automated data quality watch

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XI INTERNATIONAL DIGISONDE FORUM
30 APRIL TO 3 MAY 2007

Data alert

- Digisonde network maintenance
 - 20 station
- Data alert criteria
- Alert software and technology

Alert criteria 1

- Check data in DIDBase marked as WatchIt stations
- For every station check for no data for more than 12 hours
 - Init file parameter: noDataInHours=12.0
 - Get time of latest available data
 - Compare to current time

Alert criteria 2

- For every station check for empty ionogram/scaling for more than 70.0 % of data for latest 12.0 hour(s)
 - Init file parameter: emptyDataInHours=12.0
 - Init file parameter: percentOfEmptyData=70.0
 - Empty data:
 $(\text{countFOEP} - \text{countFMIN}) / \text{countFOEP} * 100$

WatchIt application

- Schedule run of WatchIt application twice a day 7:00 and 15:00
- Send email if alert info changed
 - Reduce unnecessary emails
- Create Web Page
 - Always latest information on Internet

Alert email

▼ **Subject:** Data problems

From: Digisonde Alert <umlcar_alert@uml.edu>

Date: 4/19/2007 7:00 AM

To: [Ryan Hamel@uml.edu](mailto:Ryan.Hamel@uml.edu), [Claude Dozois@uml.edu](mailto:Claude.Dozois@uml.edu), [David Kitrosser@uml.edu](mailto:David.Kitrosser@uml.edu)

Cc: [Grigori Khmyrov@uml.edu](mailto:Grigori.Khmyrov@uml.edu)

Data problem report

(message created: 2007.04.19 07:00:52 LT, 2007.04.19 11:00:52 UT)

The webpage: <http://car.uml.edu/WatchIt/dataProblems.html>

No data for more than 12.0 hour(s)

Station name	Latest data
OSAN AB	2006.08.17 02:00:05
COLLEGE AK	2007.04.18 08:00:05

Empty ionogram/scaling for more than 70.0 % of data for latest 12.0 hour(s)

Station name	Magnetic latitude
GOOSE BAY	63.200085

Alert Web Page

Data problem report

(message created: 2007.04.20 15:01:24 LT, 2007.04.20 19:01:24 UT)

No data for more than 12.0 hour(s)

Station name	Latest data
OSAN AB	2006.08.17 02:00:05
COLLEGE AK	2007.04.18 08:00:05

Empty ionogram/scaling for more than 70.0 % of data for latest 12.0 hour(s)

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