CLIDATA FORUM 2013

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Clidata Quality Control

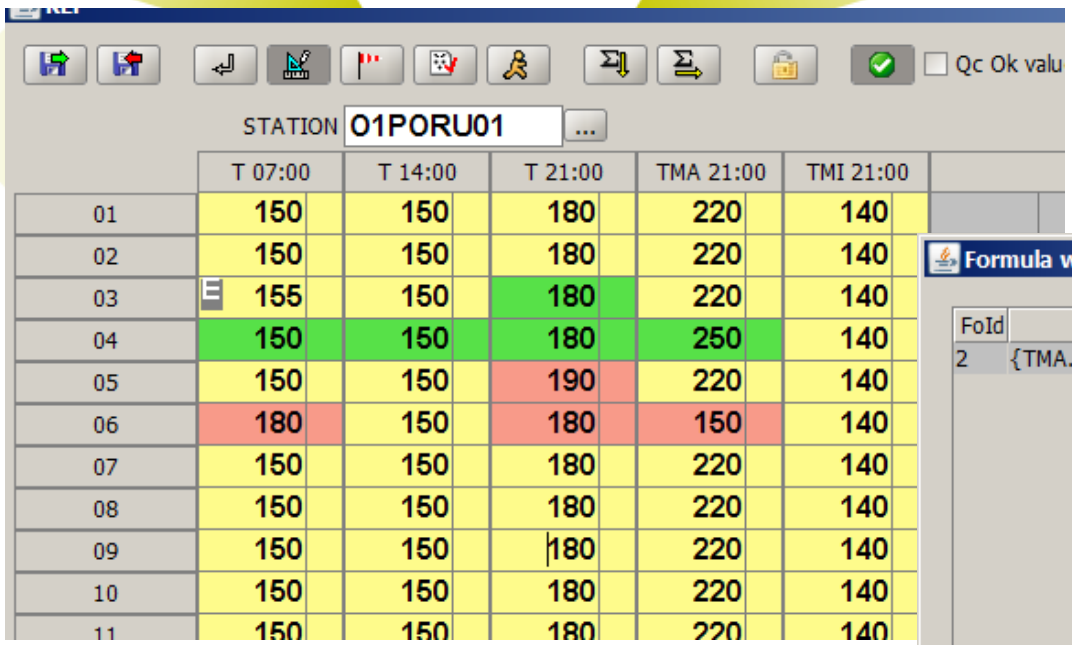
Prague, May 2013

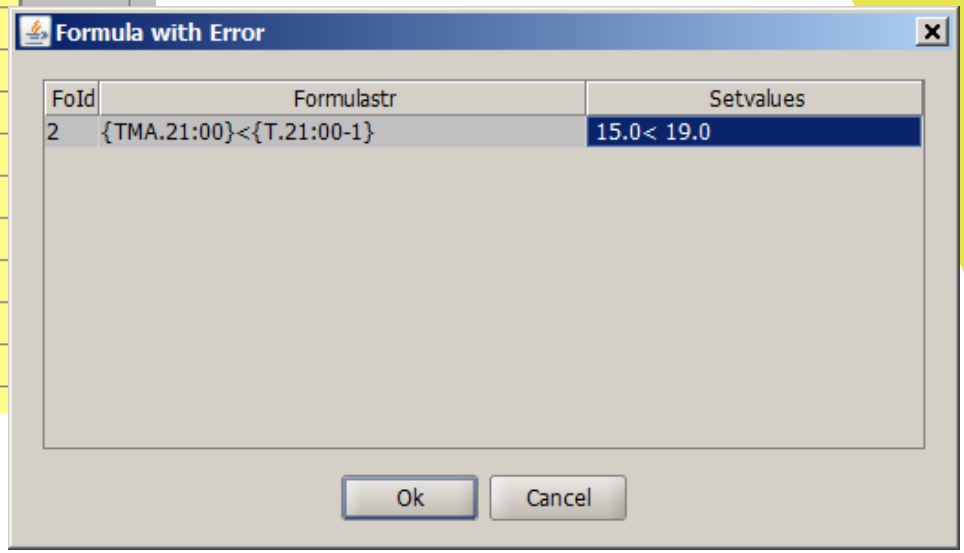
Capabilities

- By Formula
  - Quality control of Key Entered data → In Key Entry Form
  - Historical Climatological data → Batch Quality Control
- Predefined regular data controls
  - Difference between two consecutive values
  - Repeatable values
  - Limits

In Key Entry Form

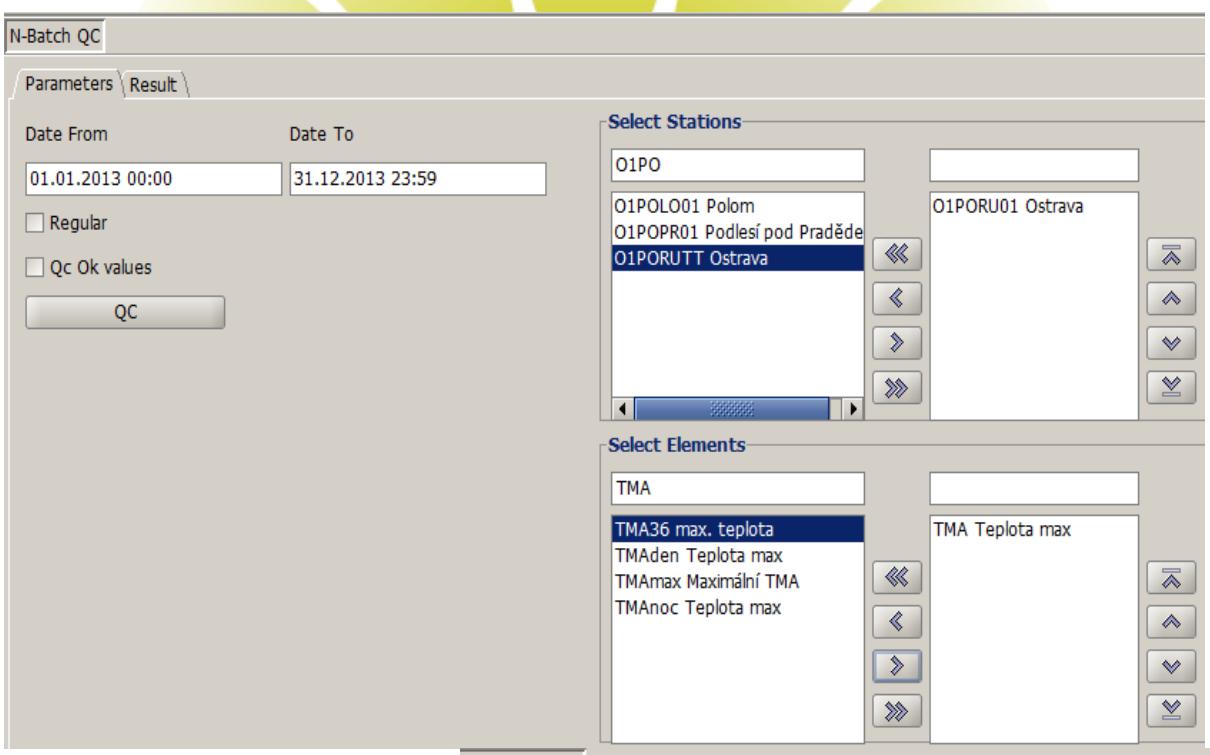
- Control by Formula E.G. {TMI.XX:XX}>{TMA.XX:XX}
- One station more elements, one month

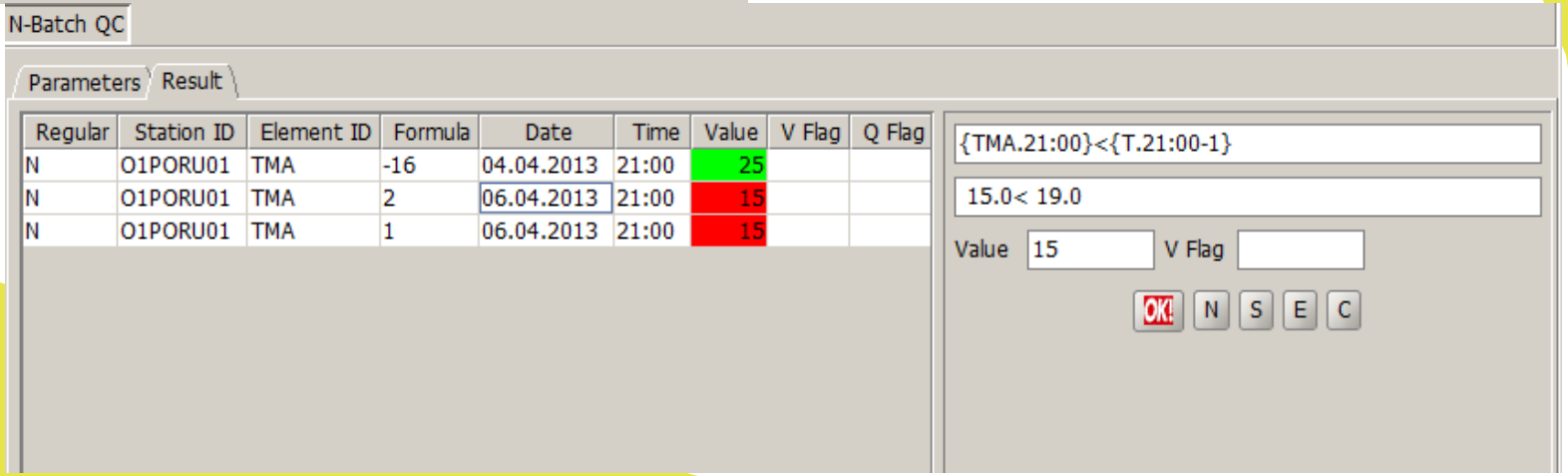




Batch QC

- Control by Formula E.G. {TMI.XX:XX}>{TMA.XX:XX}
- Define period, more stations, more elements





More possibilities – OK VALUES

- Error values can be marked as OK
  - They are not controlled anymore
- Example of usage:
- Formula {TMI.XX:XX}>{TMA.XX:XX}
- TMA=15
- TMI=16
- WE know that TMI is CORRECT, we mark TMI OK!!! → Flag 'O'
- In KEF only TMA is highlighted:

TMA 21:00	TMI 21:00
220	140
220	140
220	140
250	140
220	140
150	160
220	140
220	140
220	140

Regular data control

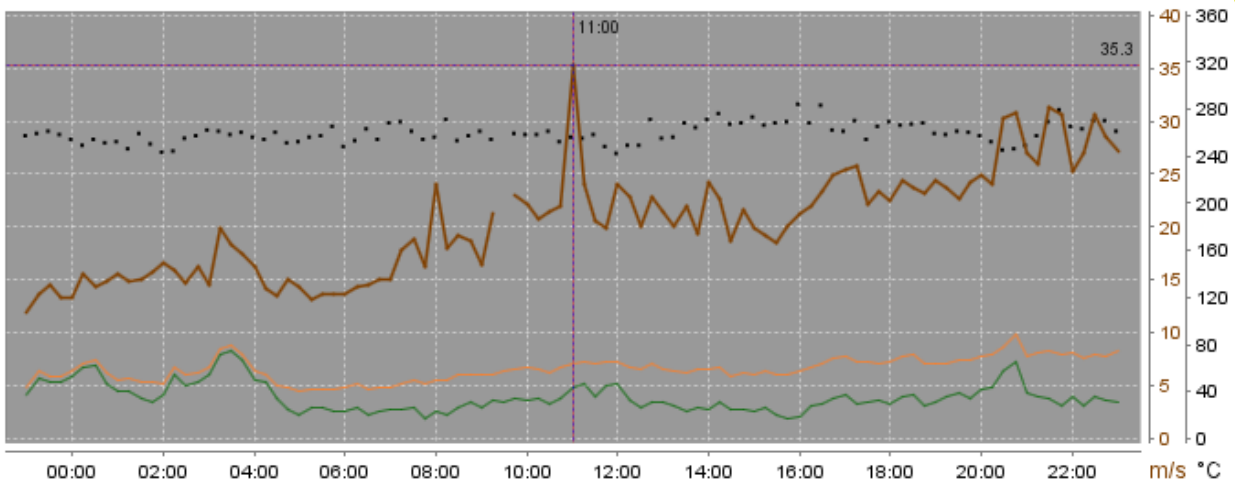
- Finding peaks, exceptional values, to many repeats of the same value
- Defined by administrator
- Defined regular job which is checking regular data
- Checking user periods, list of stations
- Offers interpolated value
- Mark exceptional value as OK

Fmax > 25 m/s

Station ID	Date	Info	Ok
O1CERV01	18.01.20...	32.5 > 25	
O1CERV01	19.01.20...	26.7 > 25	
O1CERV01	19.01.20...	27 > 25	
O1CERV01	07.11.20...	26.3 > 25	
O1CERV01	07.11.20...	25.9 > 25	
O1CERV01	25.06.20...	26.6 > 25	
O1JAVO01	11.01.20...	25.3 > 25	
O1JAVR01	15.12.20...	25.3 > 25	
O1JAVR01	15.12.20...	25.2 > 25	
O1KRNO01	19.03.20...	34.2 > 25	
O1LUCI01	18.01.20...	26.1 > 25	
O1LUCI01	18.01.20...	26.2 > 25	
O1LYSA01	01.01.20...	25.3 > 25	
O1LYSA01	01.01.20...	27.9 > 25	
O1LYSA01	01.01.20...	25.8 > 25	
O1LYSA01	01.01.20...	29.5 > 25	
O1LYSA01	11.01.20...	26.7 > 25	
O1LYSA01	11.01.20...	26.8 > 25	
O1LYSA01	12.01.20...	26.4 > 25	
O1LYSA01	13.01.20...	25.1 > 25	
O1LYSA01	18.01.20...	35.3 > 25	
O1LYSA01	18.01.20...	25.5 > 25	
O1LYSA01	18.01.20...	25.7 > 25	
O1LYSA01	18.01.20...	30.2 > 25	
O1LYSA01	18.01.20...	30.8 > 25	
O1LYSA01	18.01.20...	26.9 > 25	
O1LYSA01	18.01.20...	25.9 > 25	
O1LYSA01	18.01.20...	31.3 > 25	
O1LYSA01	18.01.20...	30.7 > 25	
O1LYSA01	18.01.20...	25.3 > 25	
O1LYSA01	18.01.20...	27 > 25	

DT	Fmax XX:XX	25 CONSTANT	Fprum XX:XX	F XX:XX	D XX:XX
18.01.2007 09:30			3.4	6.3	
18.01.2007 09:45	23		3.7	6.5	258
18.01.2007 10:00	22.1		3.6	6.7	257
18.01.2007 10:15	20.7		3.8	6.6	257
18.01.2007 10:30	21.5		3.3	6.2	260
18.01.2007 10:45	21.9		3.8	6.8	251
18.01.2007 11:00	35.3	25	4.9	7.1	255
18.01.2007 11:15	24		5.1	7.3	254
18.01.2007 11:30	20.5		4	7	257
18.01.2007 11:45	19.8		5	7.3	247
18.01.2007 12:00	24.1		5.2	7.2	241
18.01.2007 12:15	22.9		3.6	6.8	248

OK! N S Int 23.53 E C



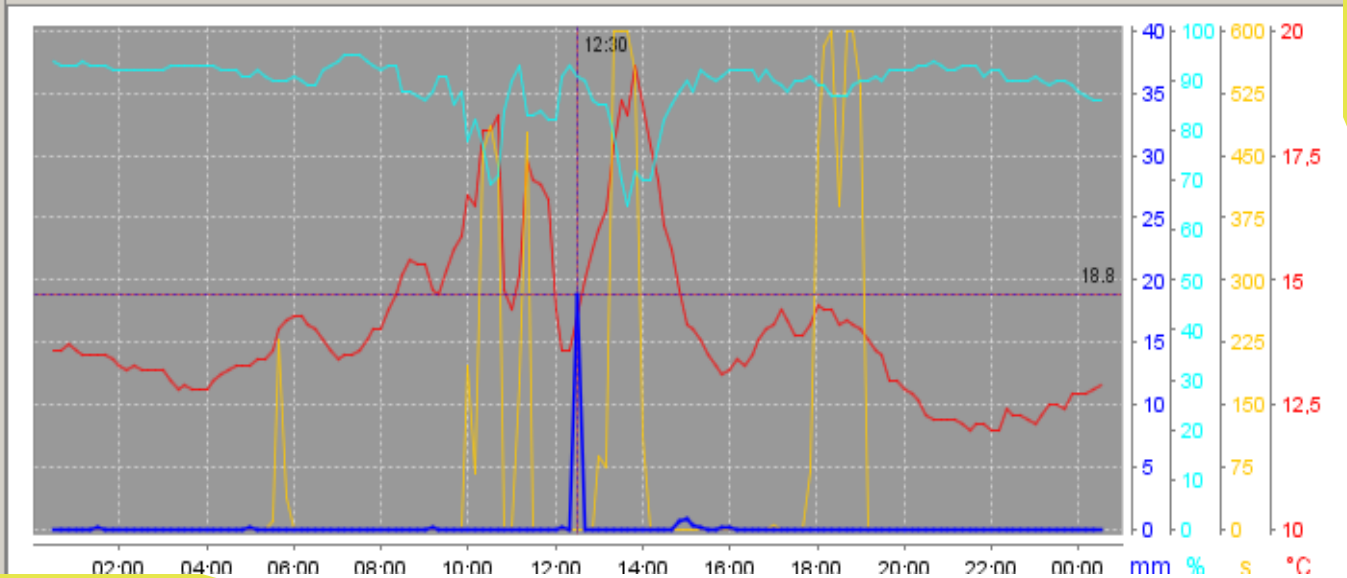
SRA 10 min > 15 mm

Limity | SRA10M > 15 mm | Manually | Ok All

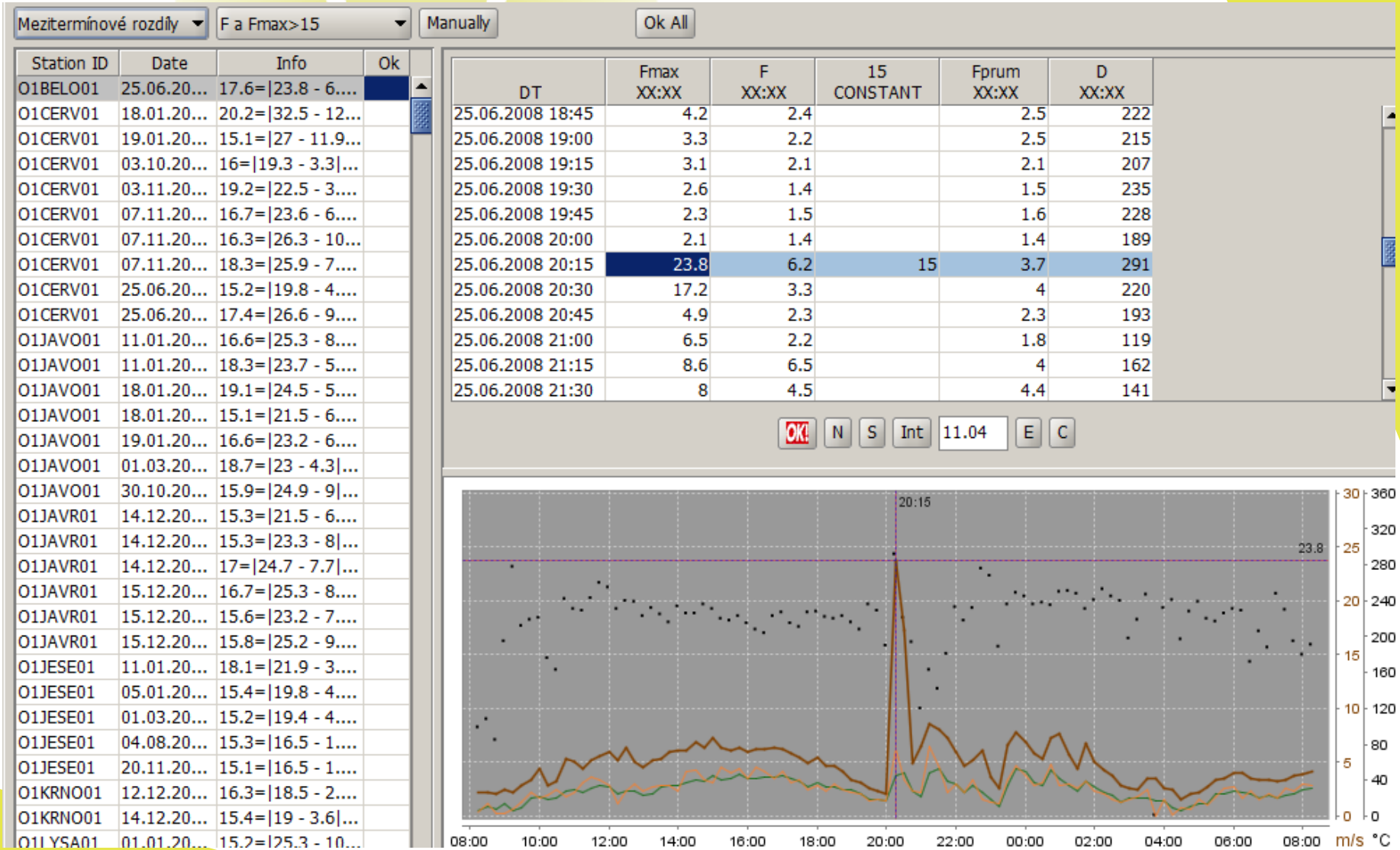
Station ID	Date	Info	Ok
O1BOHU01	16.07.201...	18.8 neni [0,15]	
O1FREN01	19.07.201...	20.1 neni [0,15]	
O1JESE01	03.05.201...	15.4 neni [0,15]	
O1LYSA01	26.07.201...	18.6 neni [0,15]	
O1OSOB01	17.07.201...	15.9 neni [0,15]	
O1OSOB01	03.09.201...	17.4 neni [0,15]	
O2PAPR01	04.07.201...	21.9 neni [0,15]	
O2PAPR01	04.07.201...	20.9 neni [0,15]	
O2SLAM01	19.07.201...	16.9 neni [0,15]	

DT	SRA10M XX:XX	0 CONSTANT	15 CONSTANT	H XX:XX	SSV10M XX:XX	T XX:XX
16.07.2012 11:30	0			83	0	17
16.07.2012 11:40	0			84	0	16.9
16.07.2012 11:50	0			82	0	16.6
16.07.2012 12:00	0			82	0	14.4
16.07.2012 12:10	0.1			91	0	13.6
16.07.2012 12:20	0			93	0	13.6
16.07.2012 12:30	18.8	0	15	91	0	14.3
16.07.2012 12:40	0			90	0	15
16.07.2012 12:50	0			86	0	15.6
16.07.2012 13:00	0			85	87	16
16.07.2012 13:10	0			85	74	16.4
16.07.2012 13:20	0			79	600	17.7

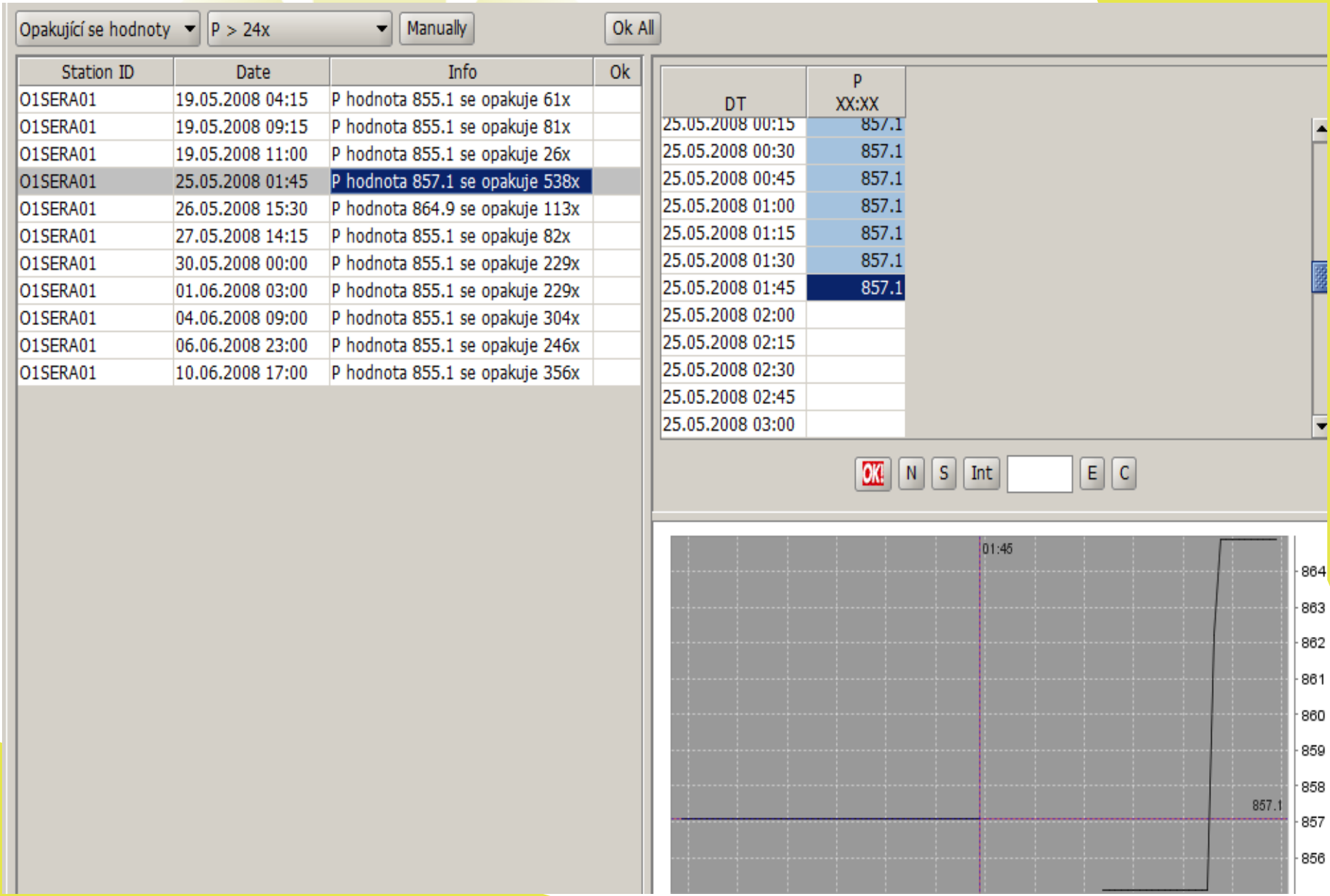
OK | N | S | Int | -0.01 | E | C



abs(F – Fmax)>15 m/s



P is not changing



More real examples

- If connection is available, we can see more examples, or use local DB with some not real definitions