

Boschung America Runway Contaminant Depth System

MSP Demonstration

Prepared for Friends and Partners in Aviation Weather
Orlando, FL

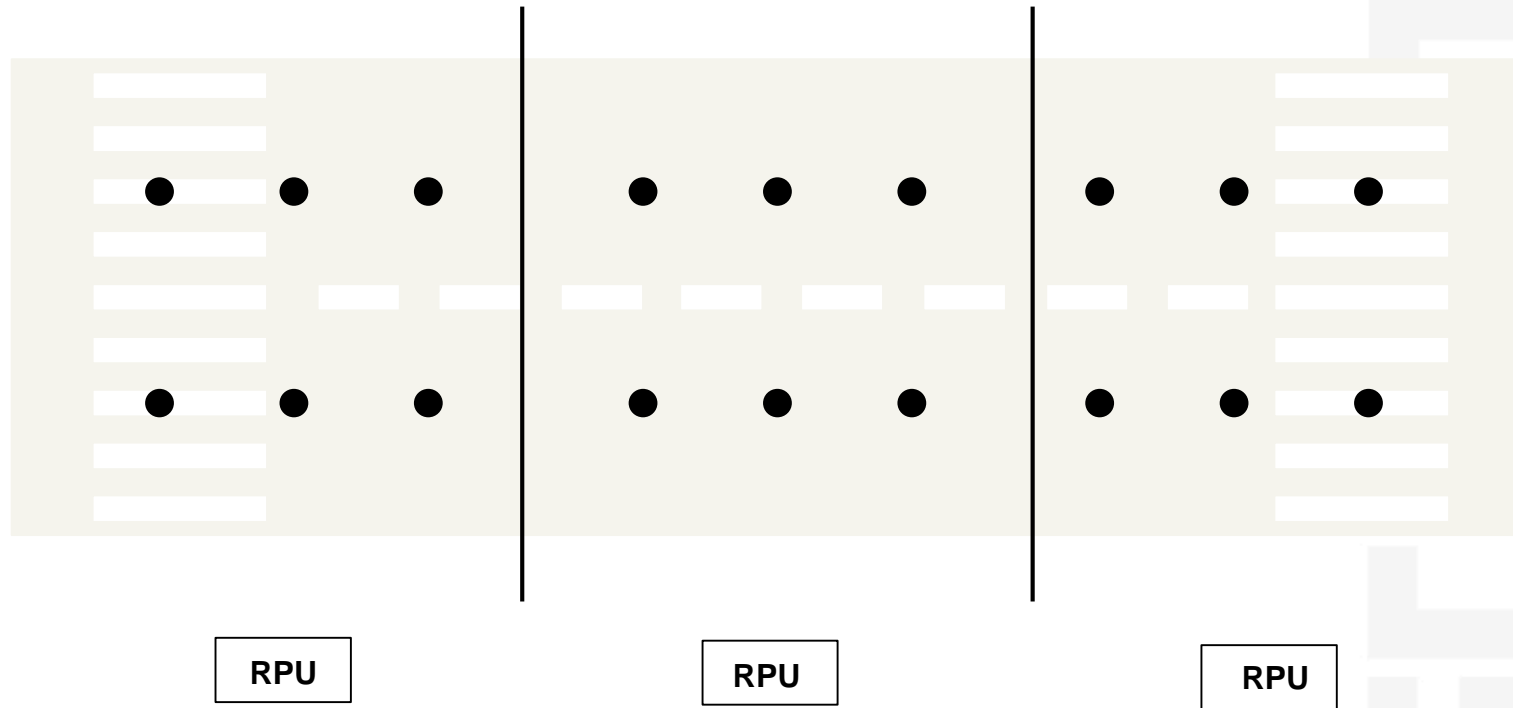
Geoff Bing
November 3, 2016

IT-Sens RCD

- IT-Sens RCD specially adapted for Airports to measure contaminant type and depth.
- It measures:
 - Runway Contamination Depth
 - 0 to 20mm
 - Runway Contamination Type
 - Dry
 - Moisture
 - Water
 - Slush
 - Snow
 - Ice

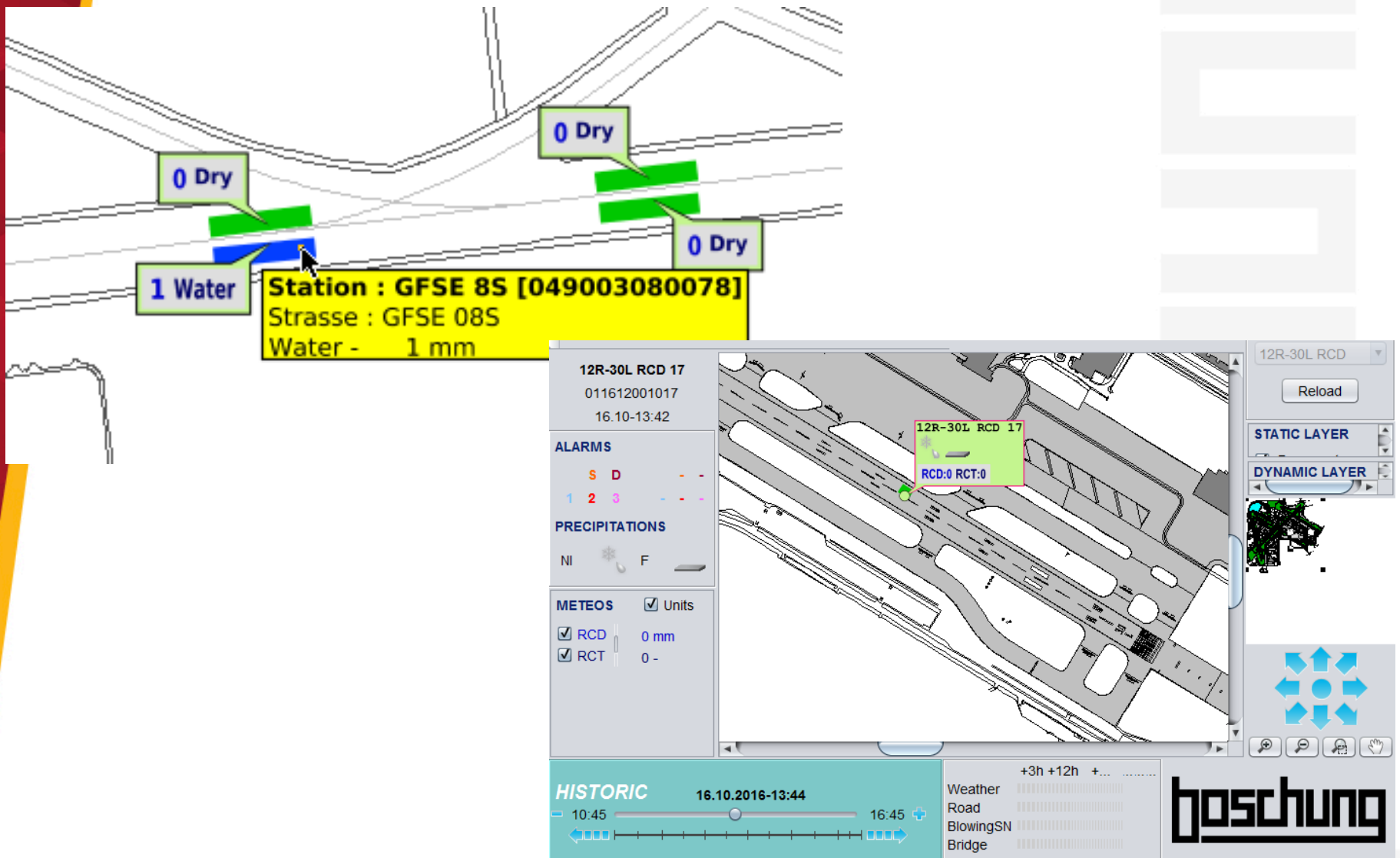


IT-Sens RCD/RCT Layout



- 4 - 6 IT-Sens RCD per third of a runway
- Exact location is defined by Airport Operations
- Data collected from 4 – 6 IT-Sens RCD per RPU

IT-Sens RCD Traces

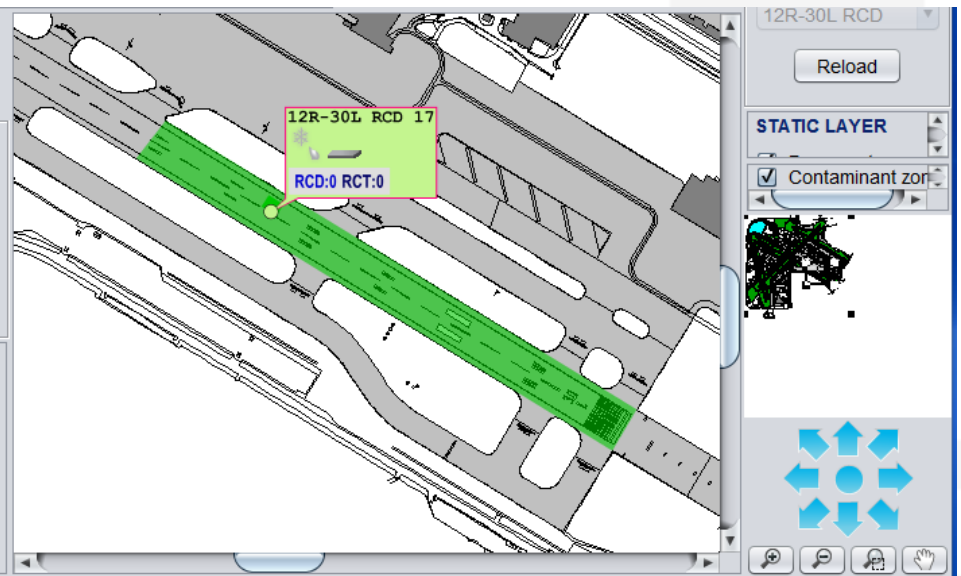
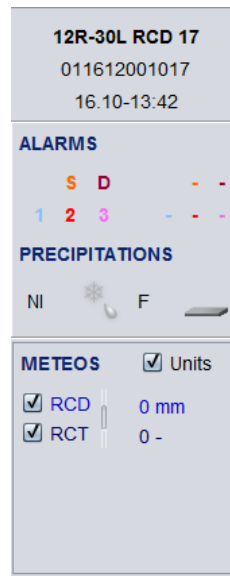
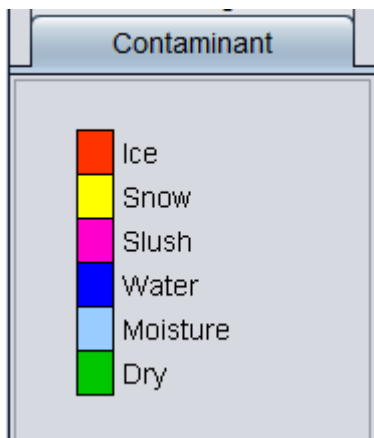
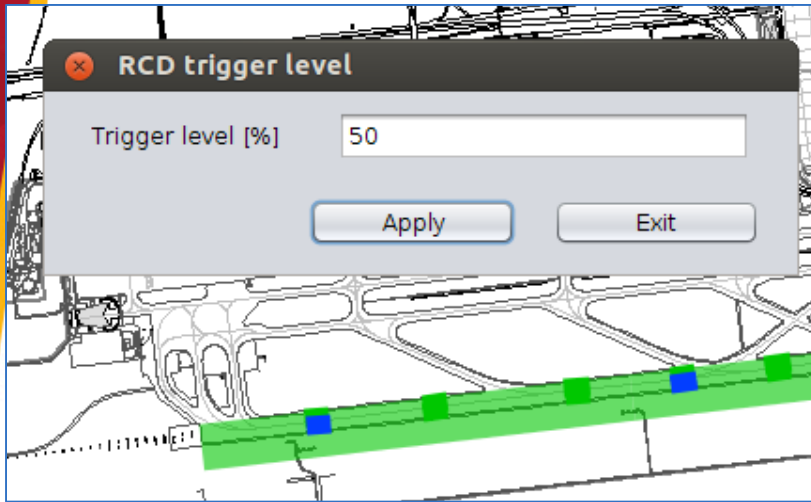


One RCD-Trace for each IT-Sens

IT-Sens RCD/RCT Zones

Each RCD-Zone is a summary of several RCD-Traces...

...triggered by a threshold.



Reporting/Notification

- Text and email alerts can be defined that notify airport operations of a potential change in RCAM status.
- BORRMA-web Visualization tool is being adapted to report RCD information based on RCAM matrix.

Rwy % Coverage				Rwy Contaminant Depth (inches)				Rwy Contaminant Type			
1/3	2/3	3/3		1/3	2/3	3/3		1/3	2/3	3/3	
10%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1/8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1/4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Wet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
50%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1/2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Wet (slippery when wet)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
75%	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3/4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Slush	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
% Total Rwy % Reported	75			2"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dry Snow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Temp °C	<input checked="" type="checkbox"/> Surface <input type="checkbox"/> OAT			3"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Wet Snow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1/3	2/3	3/3		4" or more	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Compacted Snow (May include Imbedded Ice)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0	-2	-1		Rwy Highest Depth Measured	1/4			Frost	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				Wet Ice, Water over Frozen Contaminant, Snow over Ice Report Contaminant with LOWER Condition Code				Ice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
								Slush	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please include other important Rwy information in the Remarks Section that will be reported to the Flight Crew.

* **Remarks Section**

Groomed 60 feet wide , remaining edges compacted snow.

RUNWAY CONDITION CODE			DOWNGRADED RUNWAY CODE			Mu u (1-100)		
1/3	2/3	3/3	1/3	2/3	3/3	1/3	2/3	3/3
2	2	2	1	2	2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	CFME	
						<input type="checkbox"/>	Decel	

Note: Runway Condition Code is determined using the unshaded portion of the Matrix provided on the back. Runway Code 6/6/6 is not to be used in the Condition Report.

Note: The Runway Condition Code may be downgraded using the Downgrade Assessment Criteria shaded portion of the Matrix provided on the back. REPORT THIS CODE in your CONDITION

Remarks for other important Rwy conditions would be added here to the

Thank you