

# Golf Vision Interface for Turf Guard

Team 8: Toro  
CSE 498, Collaborative Design

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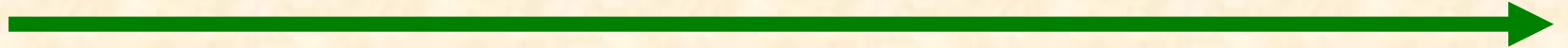
Department of Computer Science and Engineering  
Michigan State University

Spring 2008






# Schedule




 Quick Overview

 The Problem

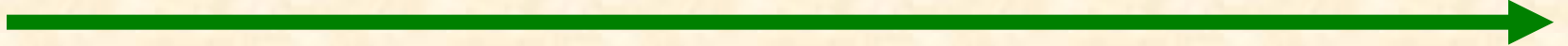
 Our Solution

 Demo

 What's Remaining



# Quick Overview

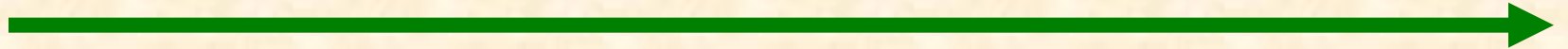


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# Problem



 Tedious

 Location Dependent

 Slow Manual Bookkeeping

 Scattered Information



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## Solution




 Tedious

 Monitor all holes automatically

 Location Dependent

 Offsite Access

 Slow Manual Bookkeeping

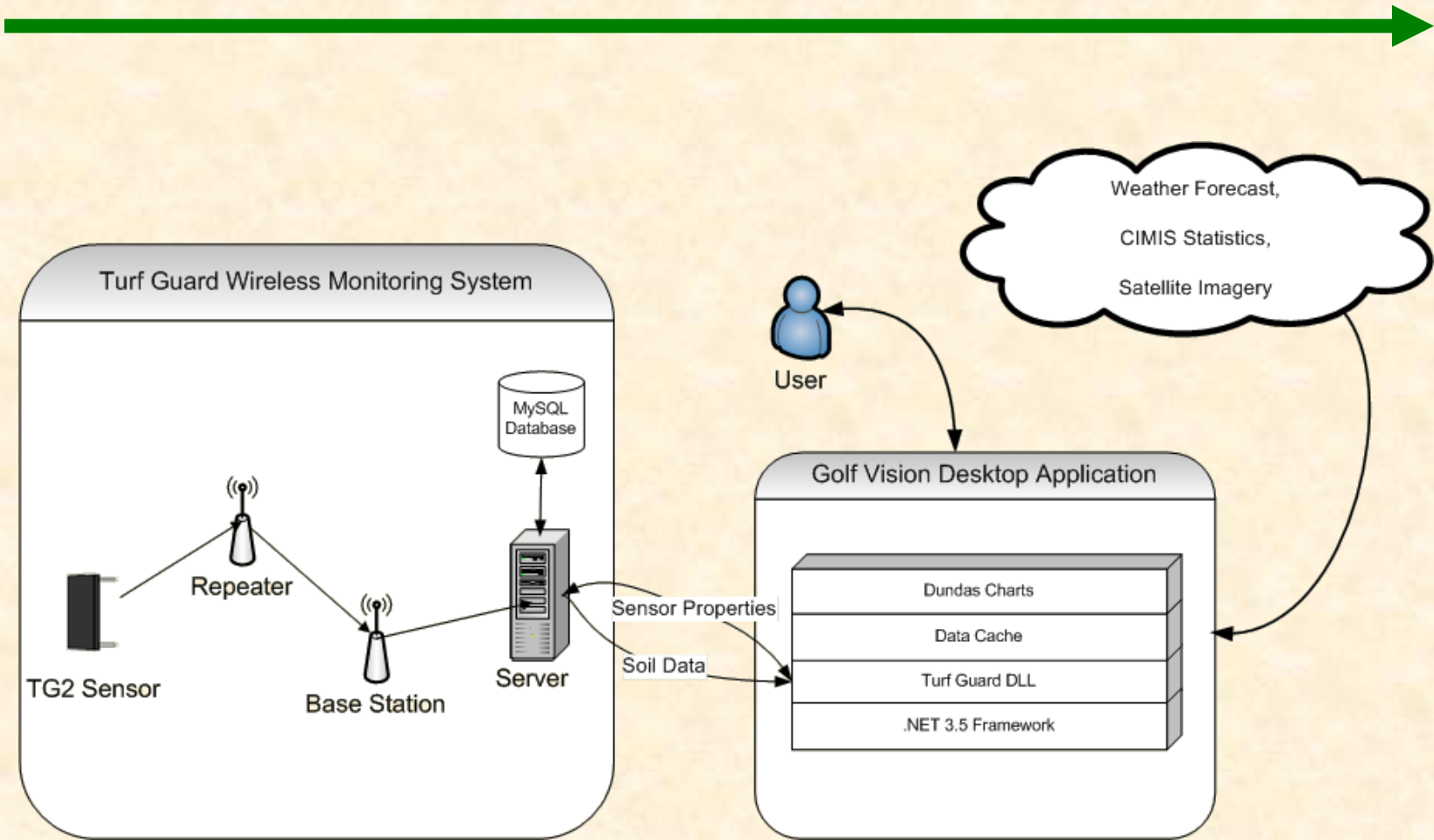
 Auto record storage and easy retrieval

 Scattered Information

 Convergence of information



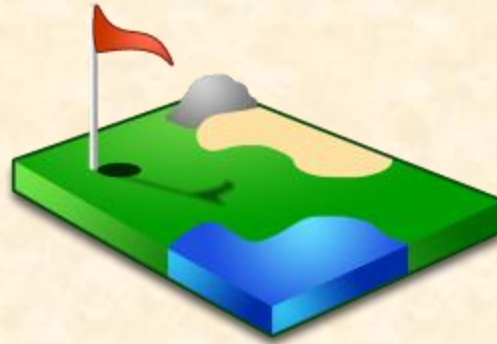
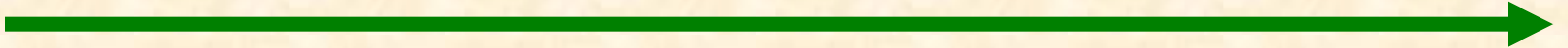
# Architecture Illustrated



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# Alpha Demo

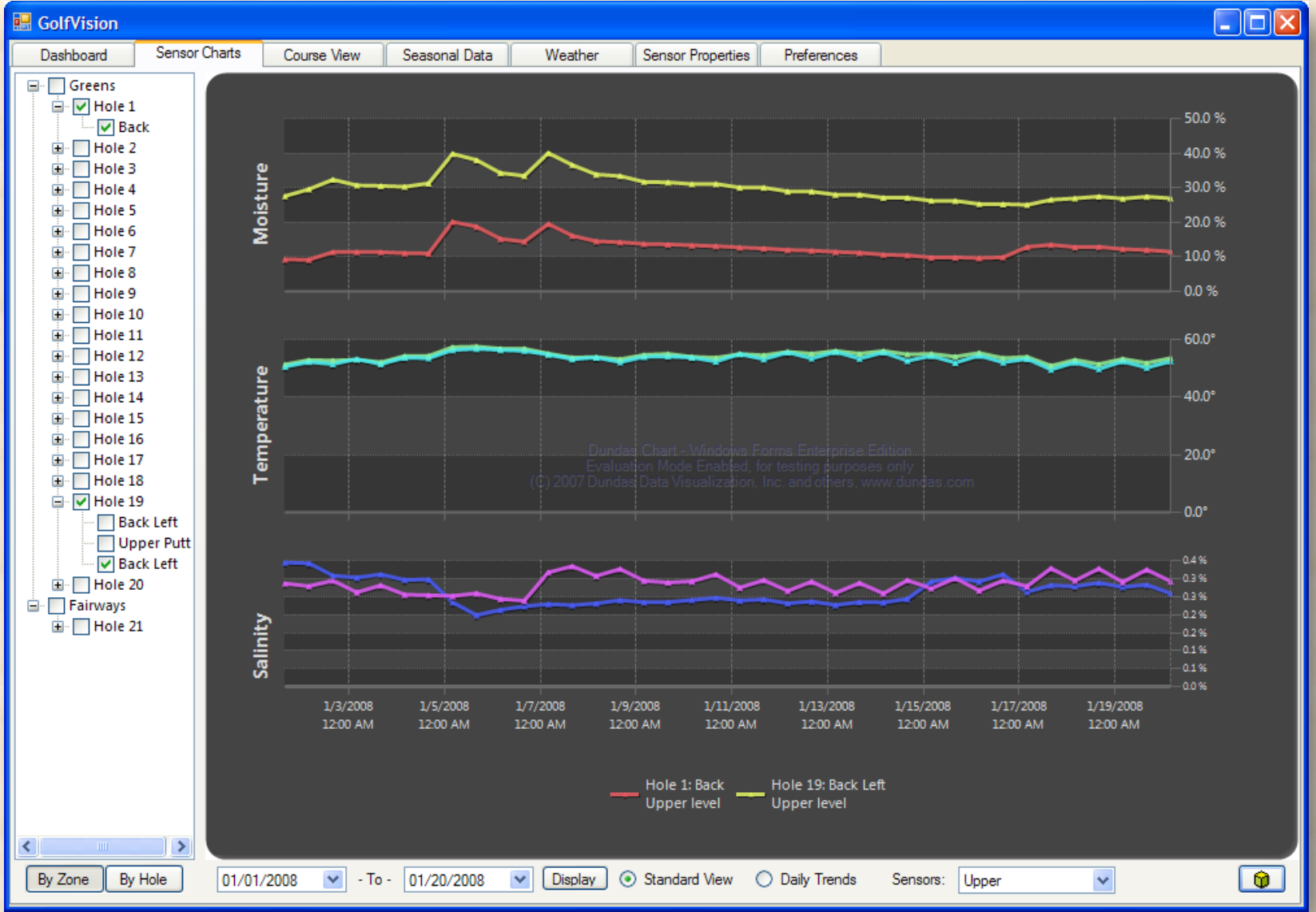


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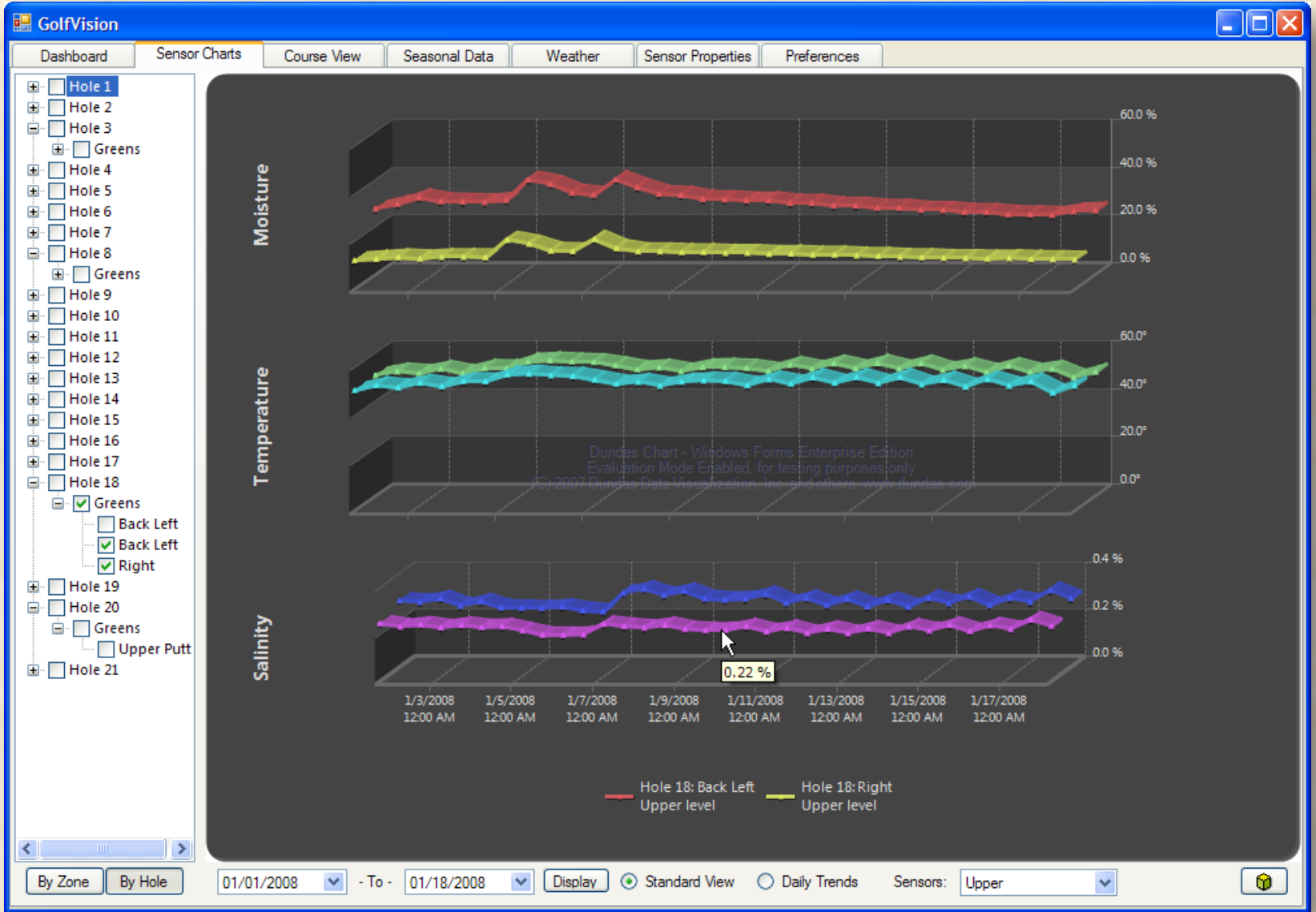
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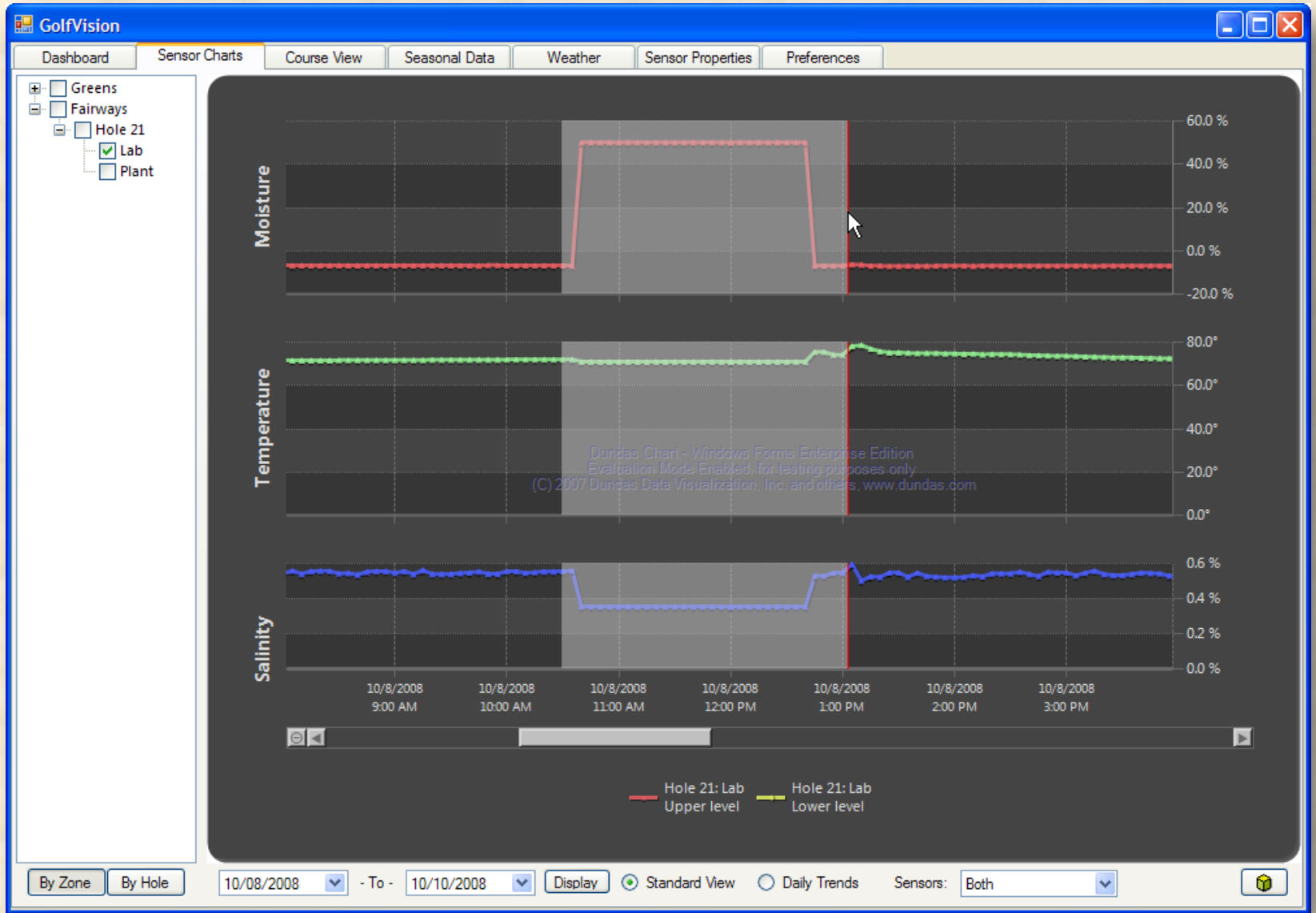


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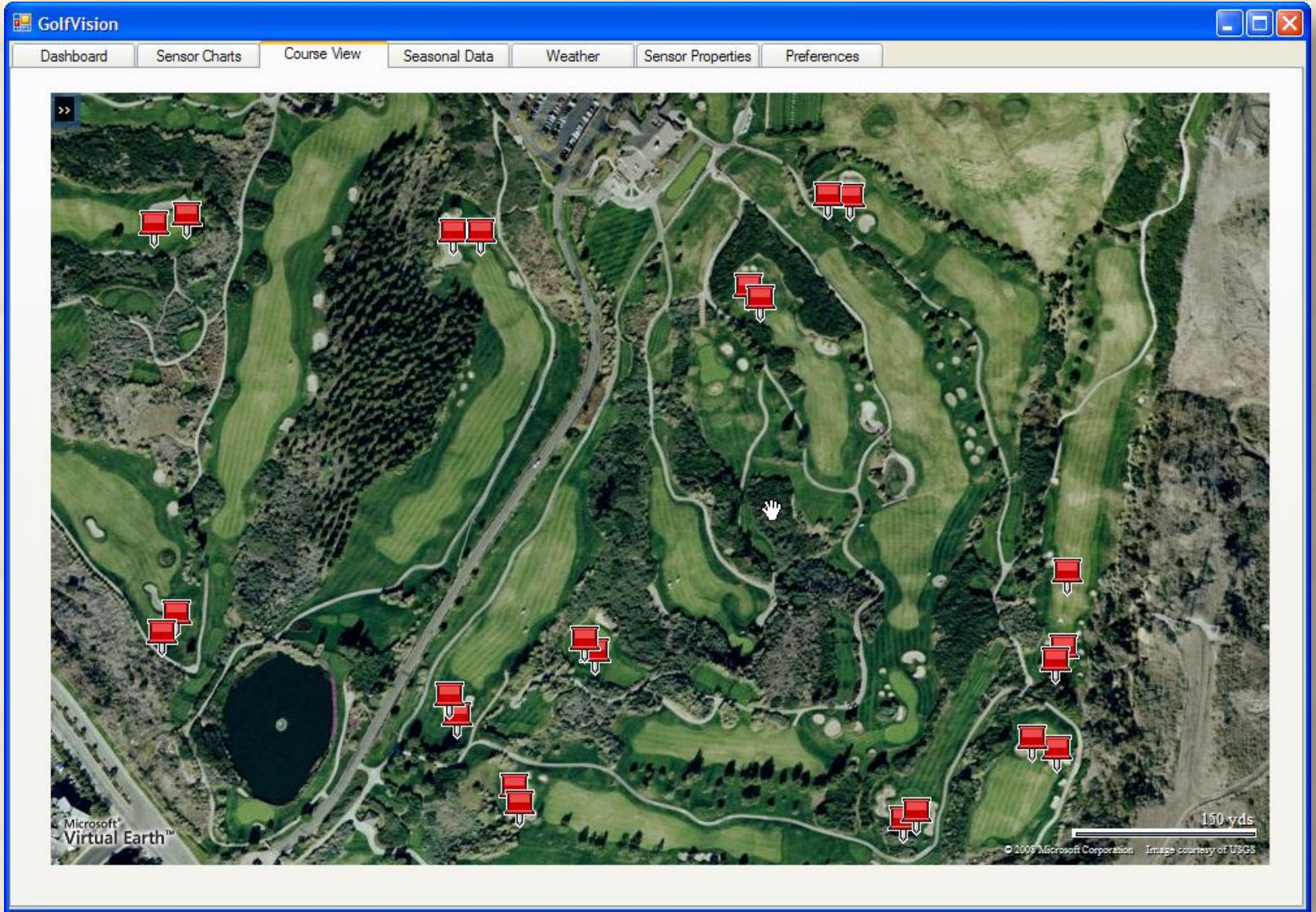


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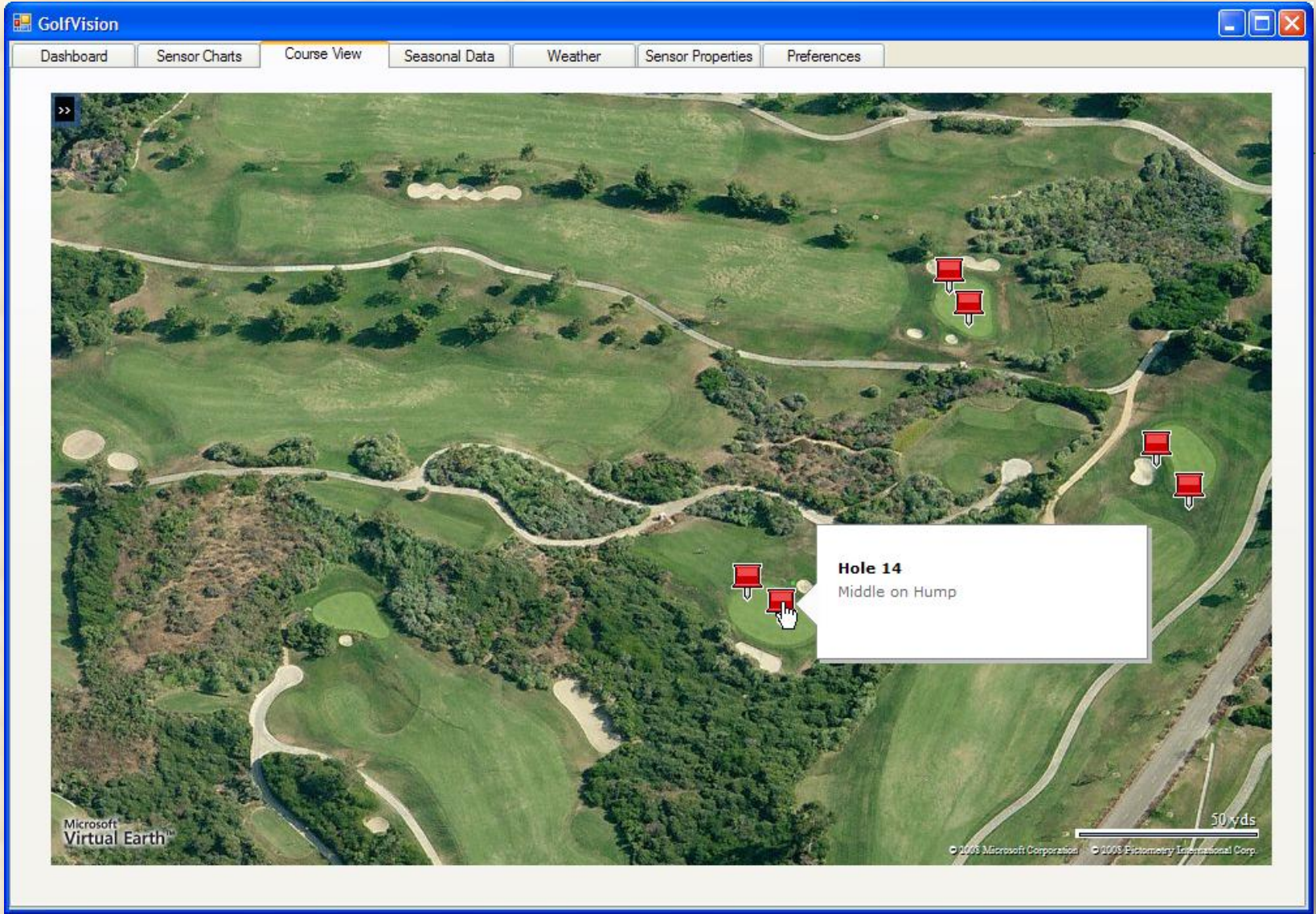
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GolfVision

Dashboard | Sensor Charts | Course View | Seasonal Data | Weather | **Sensor Properties** | Preferences

Hole 1  
Hole 2  
Hole 3  
Hole 4  
Hole 5  
Hole 6  
  Greens  
    Middle  
    **Middle Left**  
    Back Right  
Hole 7  
Hole 8  
Hole 9  
Hole 10  
Hole 11  
Hole 12  
Hole 13  
Hole 14  
Hole 15  
Hole 16  
Hole 17  
Hole 18  
Hole 19  
Hole 20  
Hole 21  
  Fairways  
    Lab  
    Plant

### Hole 6, Greens, Middle Left

Sensor Properties

Node ID	2128
Serial Number	0
Hole Number	6
Description	Middle Left
Sensor Type Code	0
Location Type	0
In Service Date	2/26/2007 2:49:16
Scale	1
Placement Description	
Water Scale	1
Water Offset	45.92
Salt Temp.	0
Salt Water	0
Salt Offset	0
Temp. Offset	0
Active	2
Water Offset Lower	40.22
Salt Offset Lower	0
Temp. Offset Lower	0
Latitude	33.7984429901866
Longitude	-118.37631225585
Sprinkler	14' from

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GolfVision

Dashboard | Sensor Charts | Course View | Seasonal Data | **Weather** | Sensor Properties | Preferences

Location		Atmosphere		Wind	
<b>City:</b>	East Lansing	<b>Humidity:</b>	26 %	<b>Chill:</b>	66 F
<b>Region:</b>	MI	<b>Visibility:</b>	0.1 MI	<b>Direction:</b>	270 degrees
<b>Country:</b>	US	<b>Pressure:</b>	30.02 PSI	<b>Speed:</b>	15 MPH
<b>Pressure State:</b>	Steady				







Forecast					
<b>Date:</b>	10/9/2008	<b>Date:</b>	10/9/2008	<b>Date:</b>	10/10/2008
<b>Temperature:</b>	66 F	<b>Low:</b>	39 F	<b>Low:</b>	45 F
<b>Text:</b>	Fair	<b>High:</b>	66 F	<b>High:</b>	70 F
		<b>Text:</b>	Clear	<b>Text:</b>	Sunny
		<b>Code:</b>	ClearNight	<b>Code:</b>	Sunny



# What's Remaining

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-  Dashboard
-  Daily Trends
-  Seasonal Statistics
-  Optimize Caching
-  Additional Course View Features
-  Manager Notes