Lake Trafford Limnological Assessment
2010 Annual Report

To:

Big Cypress Basin Board of
South Florida Water Management District

P.O. # 4500045090

September 20, 2010

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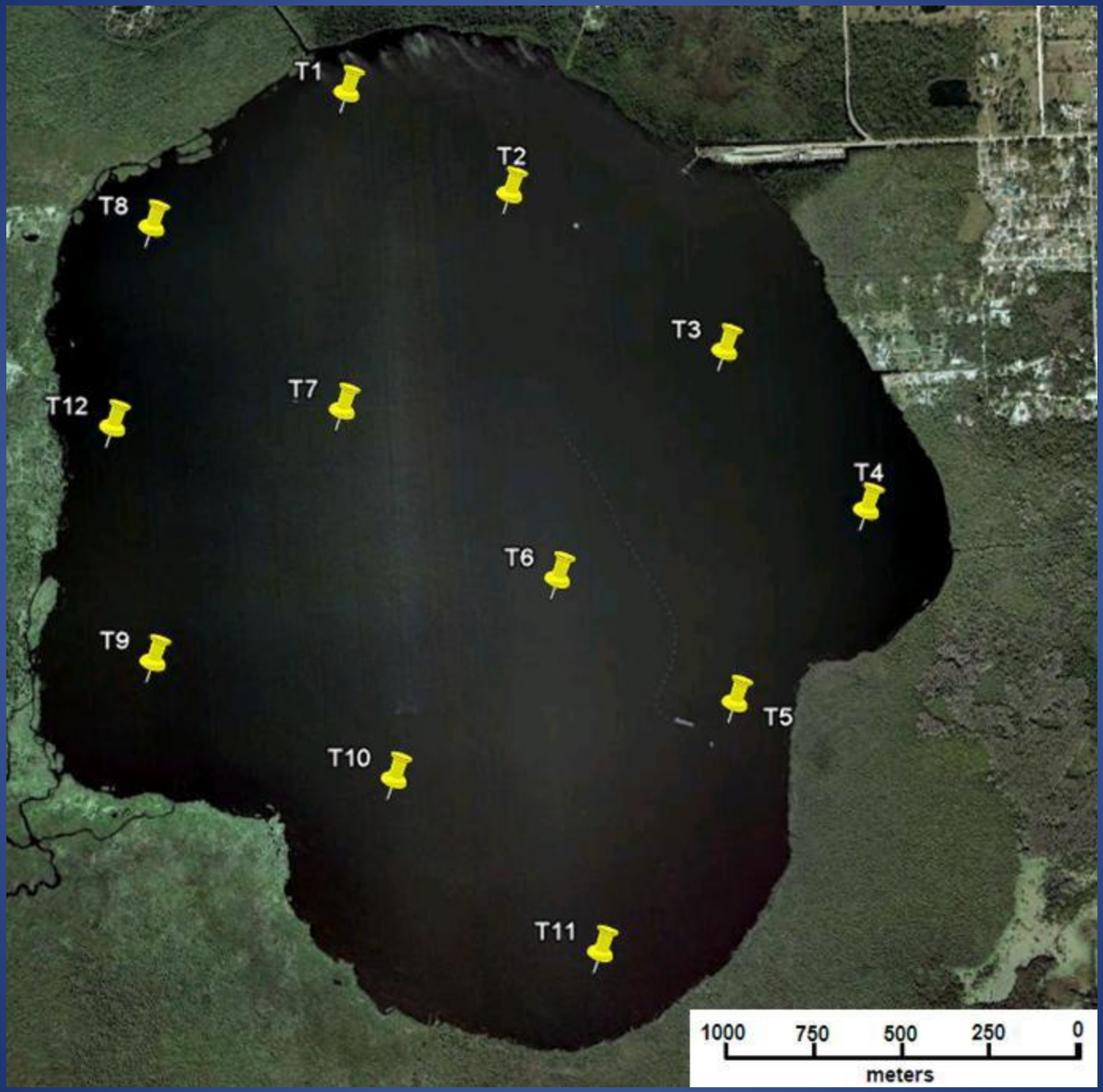
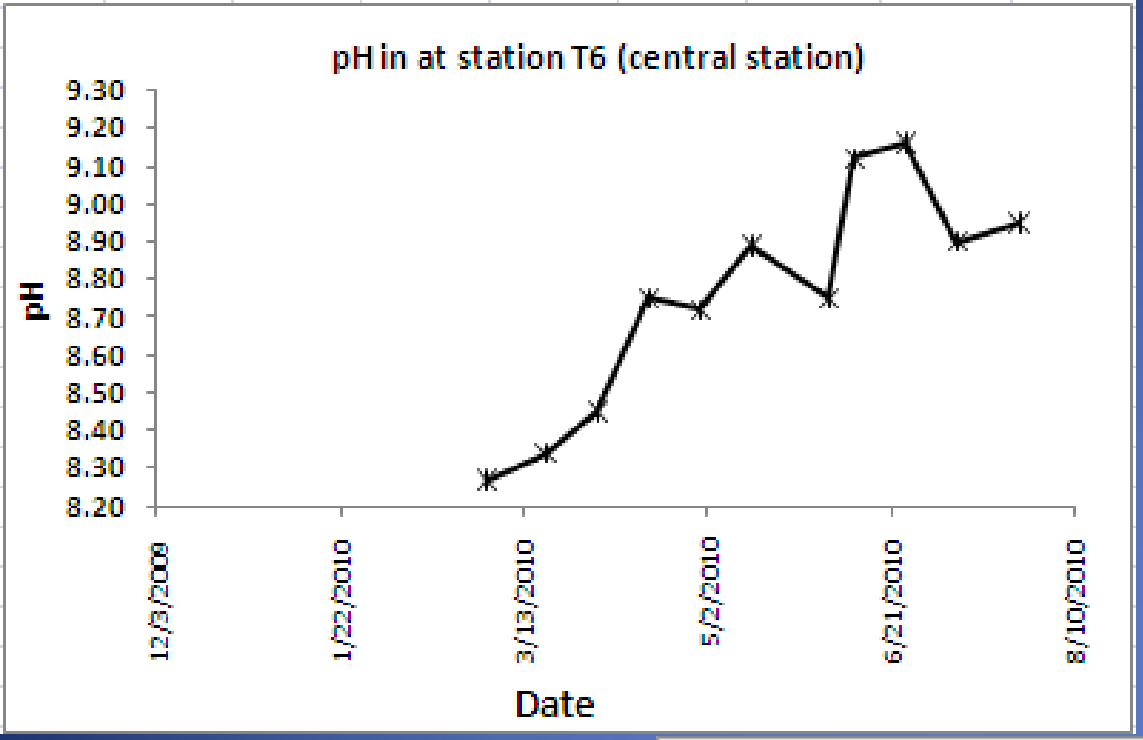
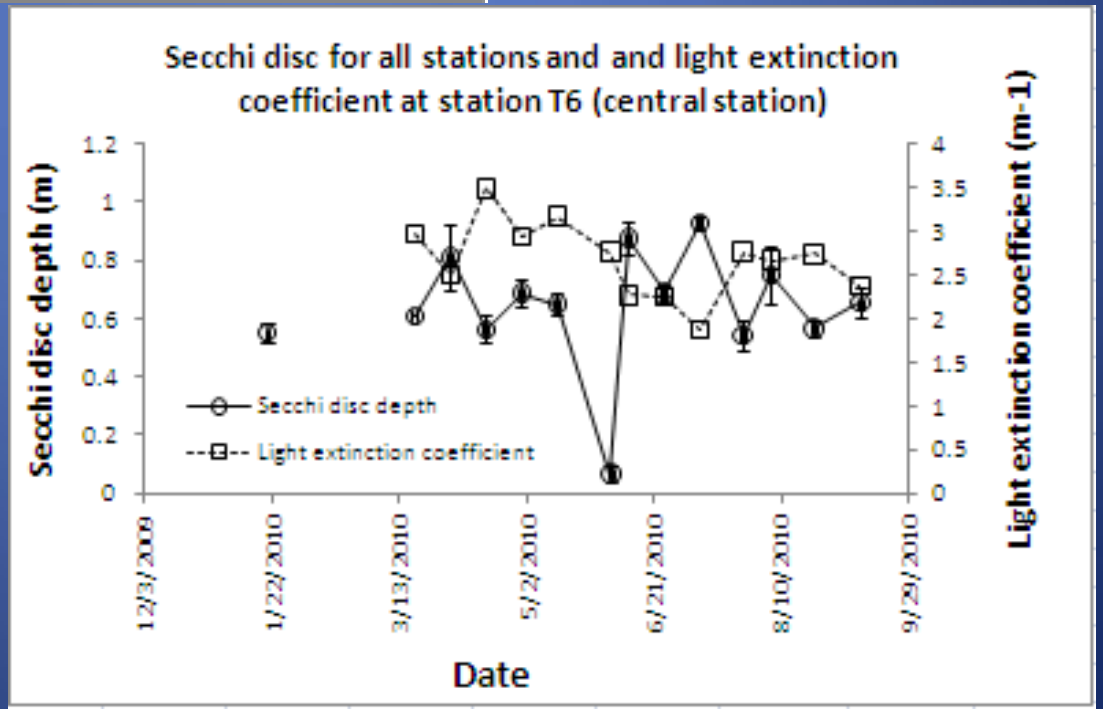
FLORIDA GULF COAST UNIVERSITY

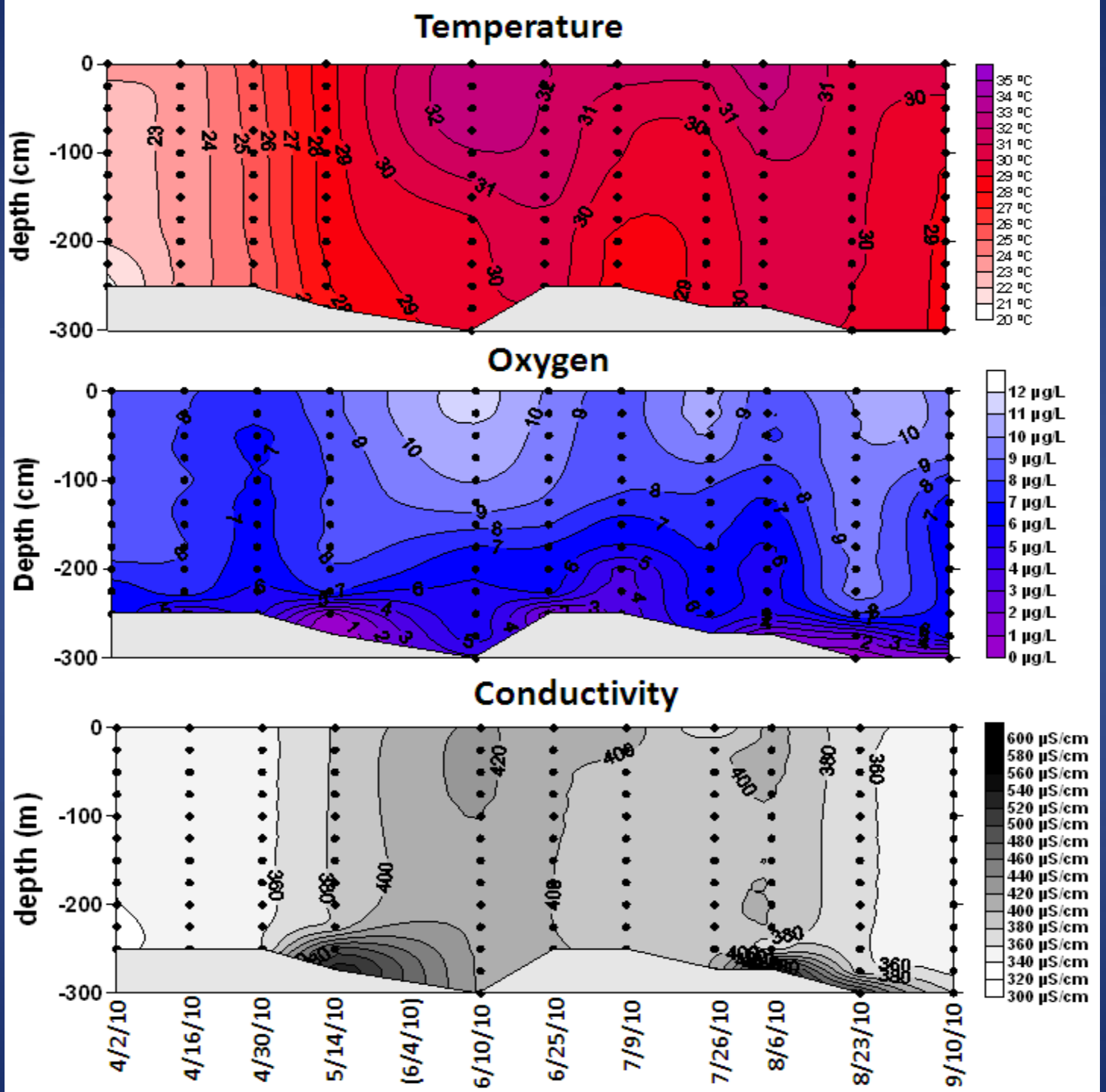
Table of Contents

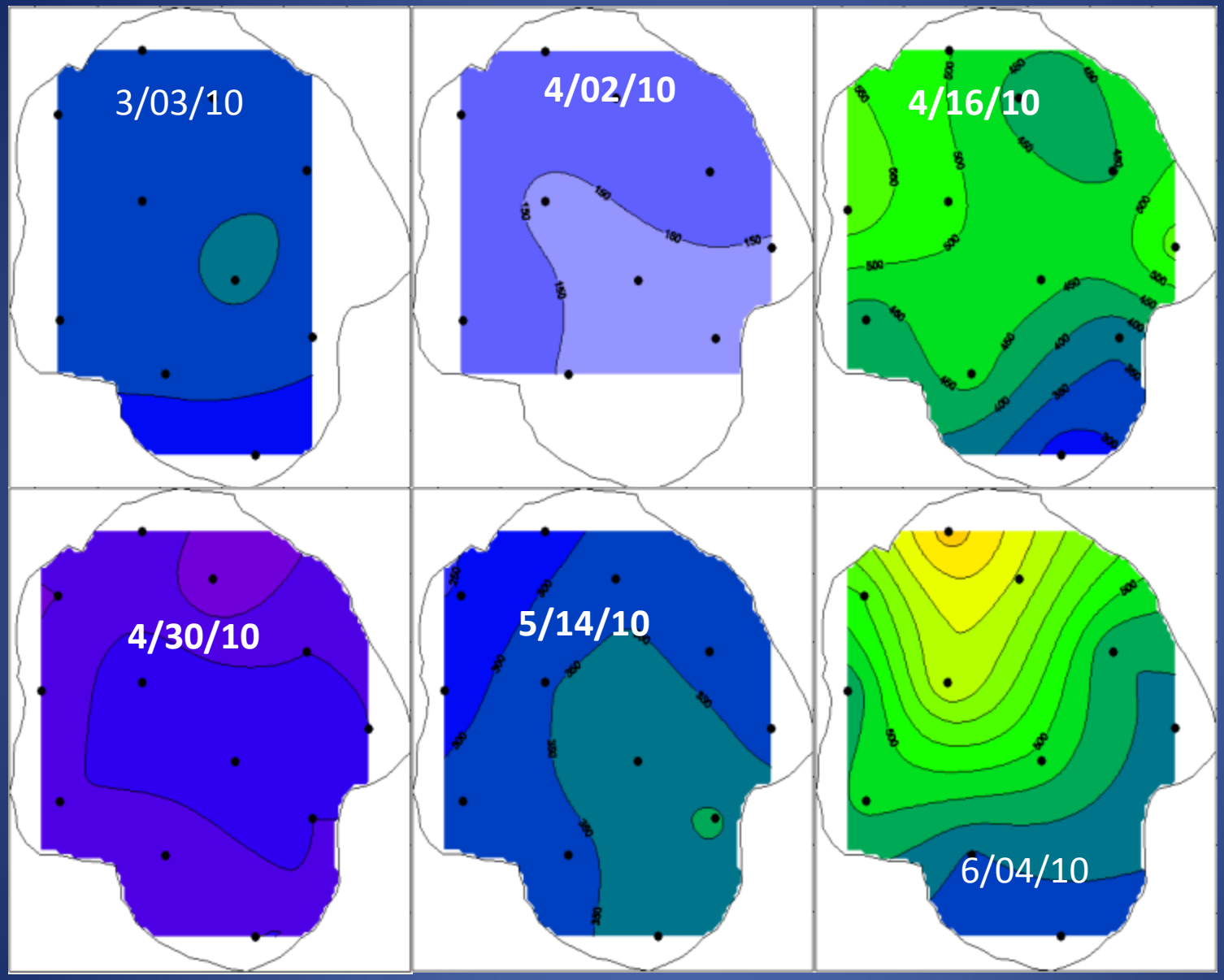
Introduction/Background 2
Objectives 3
Interagency Coordination Activity 4
Monitoring Activities Completed as of 9/20/10 7
Physical Parameters:
Methods 12
Results 13
Algal Dynamics 17
Zooplankton Dynamics 20
Benthic Macro-invertebrate Results 22
SAV Transect Results 24
Fish Results 25
Summary Discussion 26
References 28

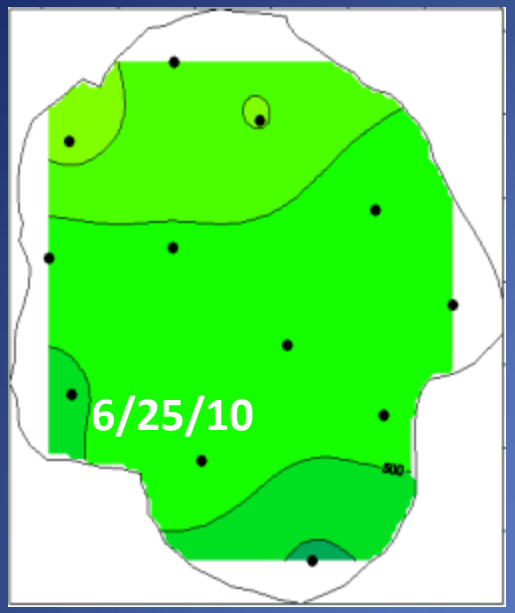

T1
T2
T3
T4
T5
T6
T7
T8
T9
T10
T11
T12
1000
750
500
250
0
meters


pH in at station T6 (central station)
pH
9.30
9.20
9.10
9.00
8.90
8.80
8.70
8.60
8.50
8.40
8.30
8.20
12/3/2009
1/22/2010
3/13/2010
5/2/2010
6/21/2010
8/10/2010
Date


Secchi disc for all stations and and light extinction coefficient at station T6 (central station)
Secchi disc depth (m)
1.2
1
0.8
0.6
0.4
0.2
0
Light extinction coefficient (m-1)
4
3.5
3
2.5
2
1.5
1
0.5
0
Secchi disc depth
Light extinction coefficient
12/3/2009
1/22/2010
3/13/2010
5/2/2010
6/21/2010
8/10/2010
9/29/2010
Date


Temperature
depth (cm)
0
-100
-200
-300
35 ºC
34 ºC
33 ºC
32 ºC
31 ºC
30 ºC
29 ºC
28 ºC
27 ºC
26 ºC
25 ºC
24 ºC
23 ºC
22 ºC
21 ºC
20 ºC
Oxygen
Depth (cm)
12 µg/L
11 µg/L
10 µg/L
9 µg/L
8 µg/L
7 µg/L
6 µg/L
5 µg/L
4 µg/L
3 µg/L
2 µg/L
1 µg/L
0 µg/L
Conductivity
depth (m)
600 µS/cm
580 µS/cm
560 µS/cm
540 µS/cm
520 µS/cm
500 µS/cm
480 µS/cm
460 µS/cm
440 µS/cm
420 µS/cm
400 µS/cm
380 µS/cm
360 µS/cm
340 µS/cm
320 µS/cm
300 µS/cm
4/2/10
4/16/10
4/30/10
5/14/10
(6/4/10)
6/10/10
6/25/10
7/9/10
7/26/10
8/6/10
8/23/10
9/10/10


3/03/10
4/02/10
4/16/10
4/30/10
5/14/10
6/04/10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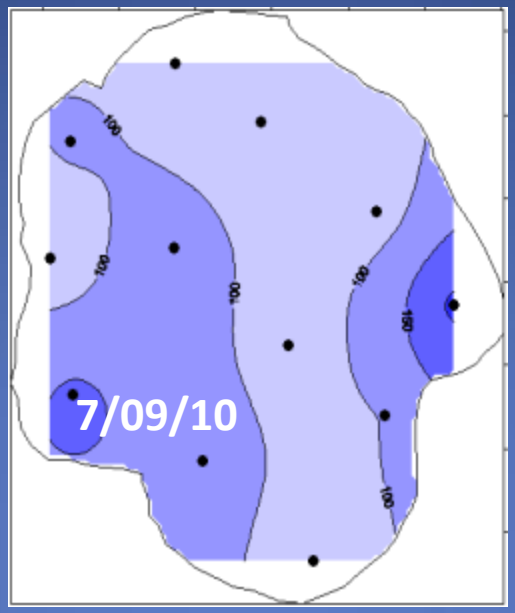
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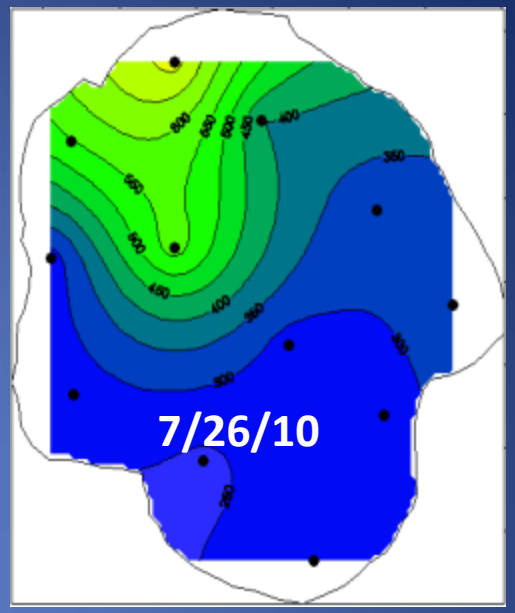
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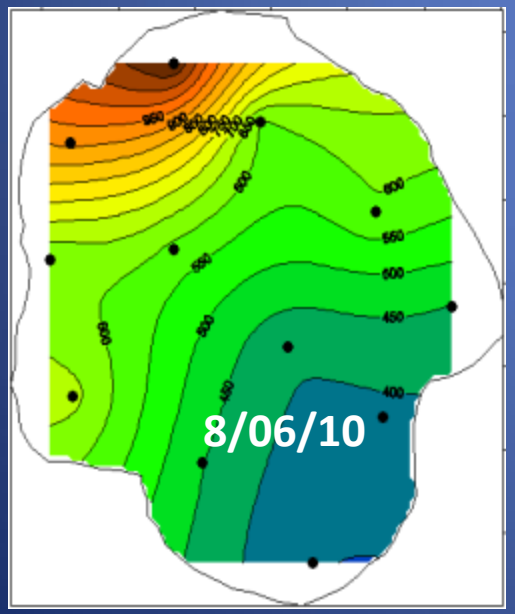
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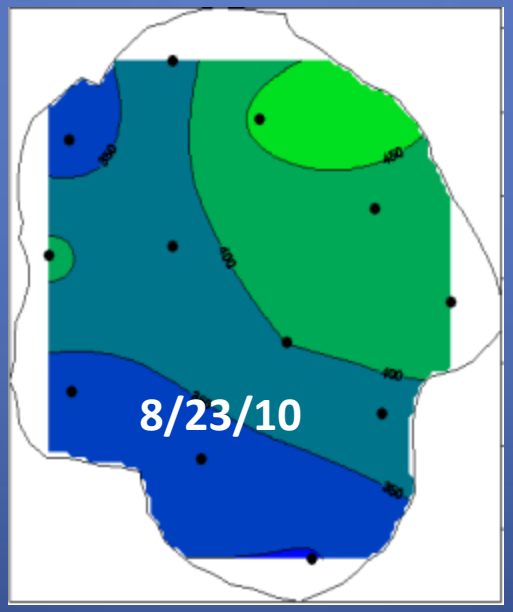
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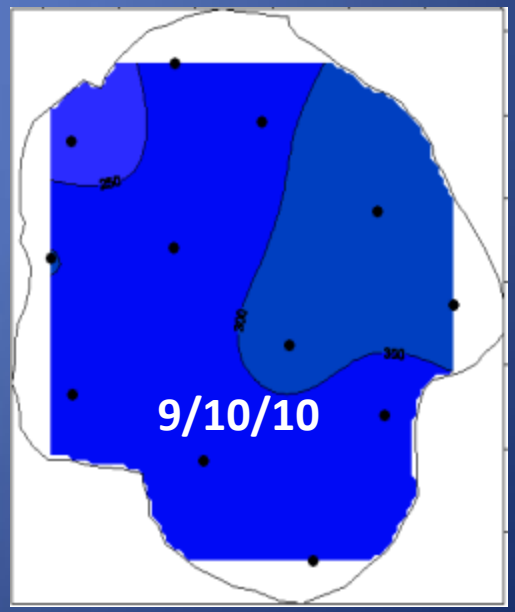
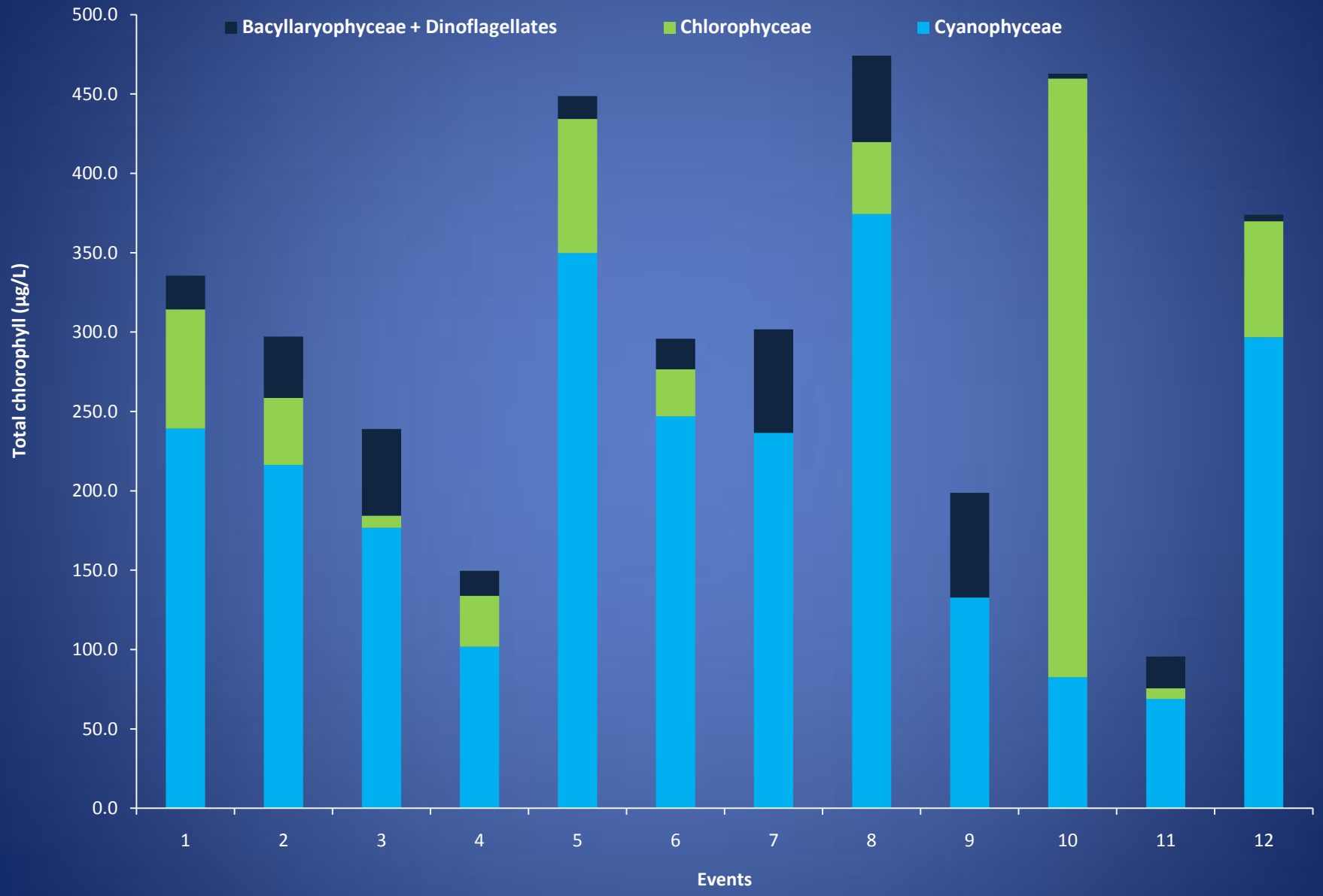
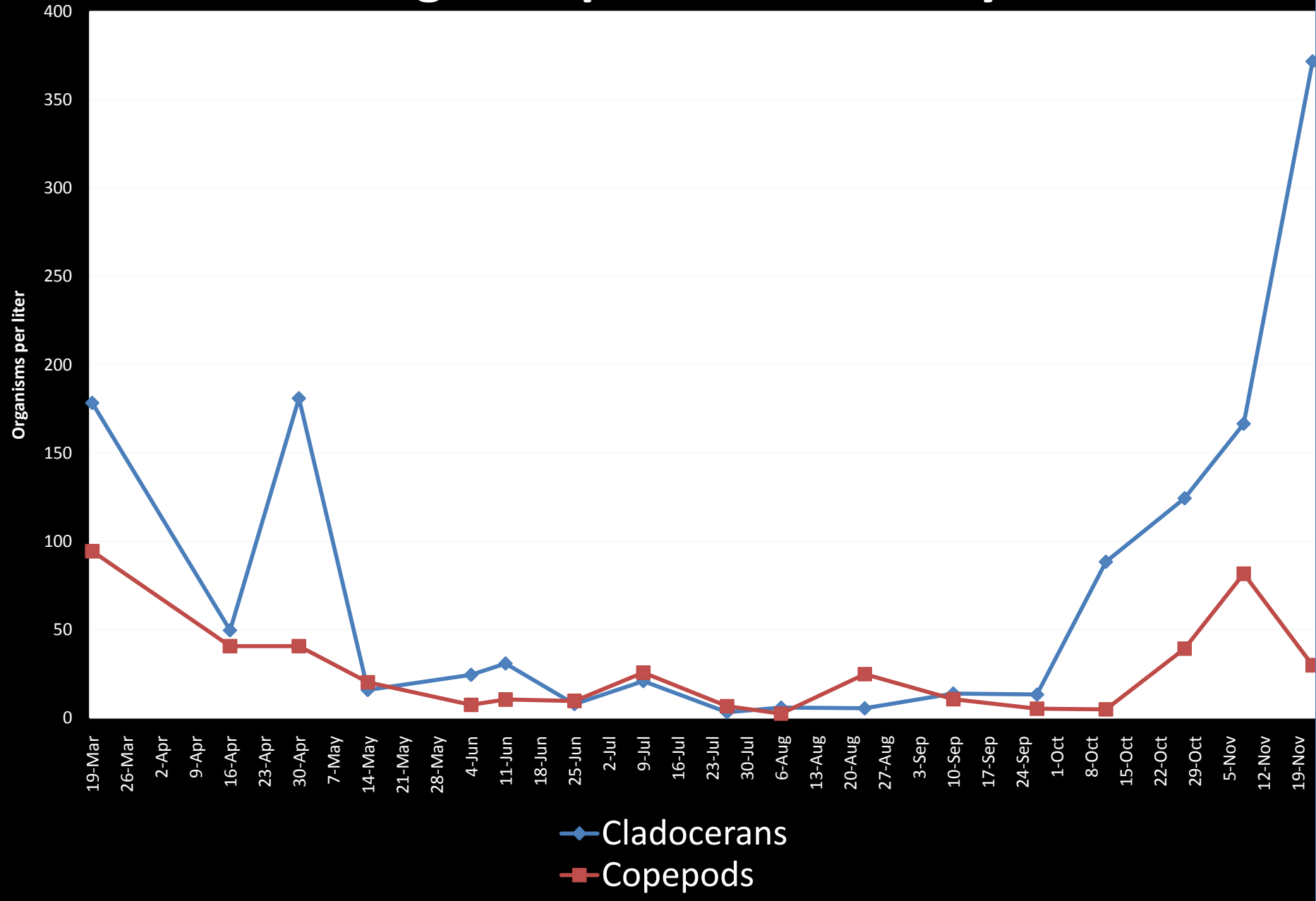
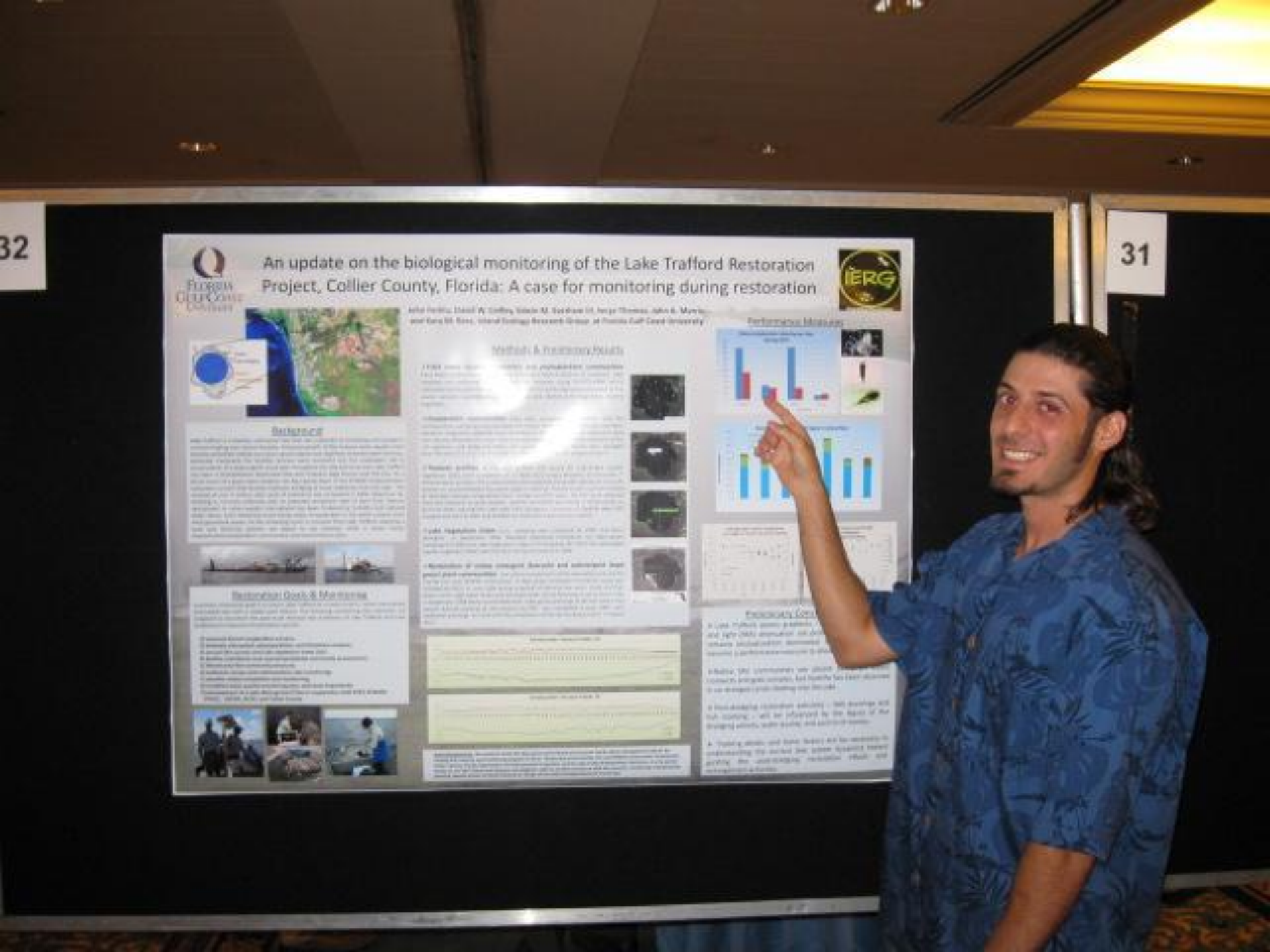

9/10/10


Bacyllaryophyceae + Dinoflagellates
Chlorophyceae
Cyanophyceae
Total chlorophyll (µg/L)
500.0
450.0
400.0
350.0
300.0
250.0
200.0
150.0
100.0
50.0
0.0
1
2
3
4
5
6
7
8
9
10
11
12
Events

Average Zooplankton Density



Lake Trafford Rd
HYDRILLA 04/29/10


32
31
An update on the biological monitoring of the Lake Trafford Restoration Project, Collier County, Florida: A case for monitoring during restoration
IERG
Background
Restoration Goals & Monitoring
Performance Measures