

## **APPENDIX J**

### **Recreation: Windsurfing**

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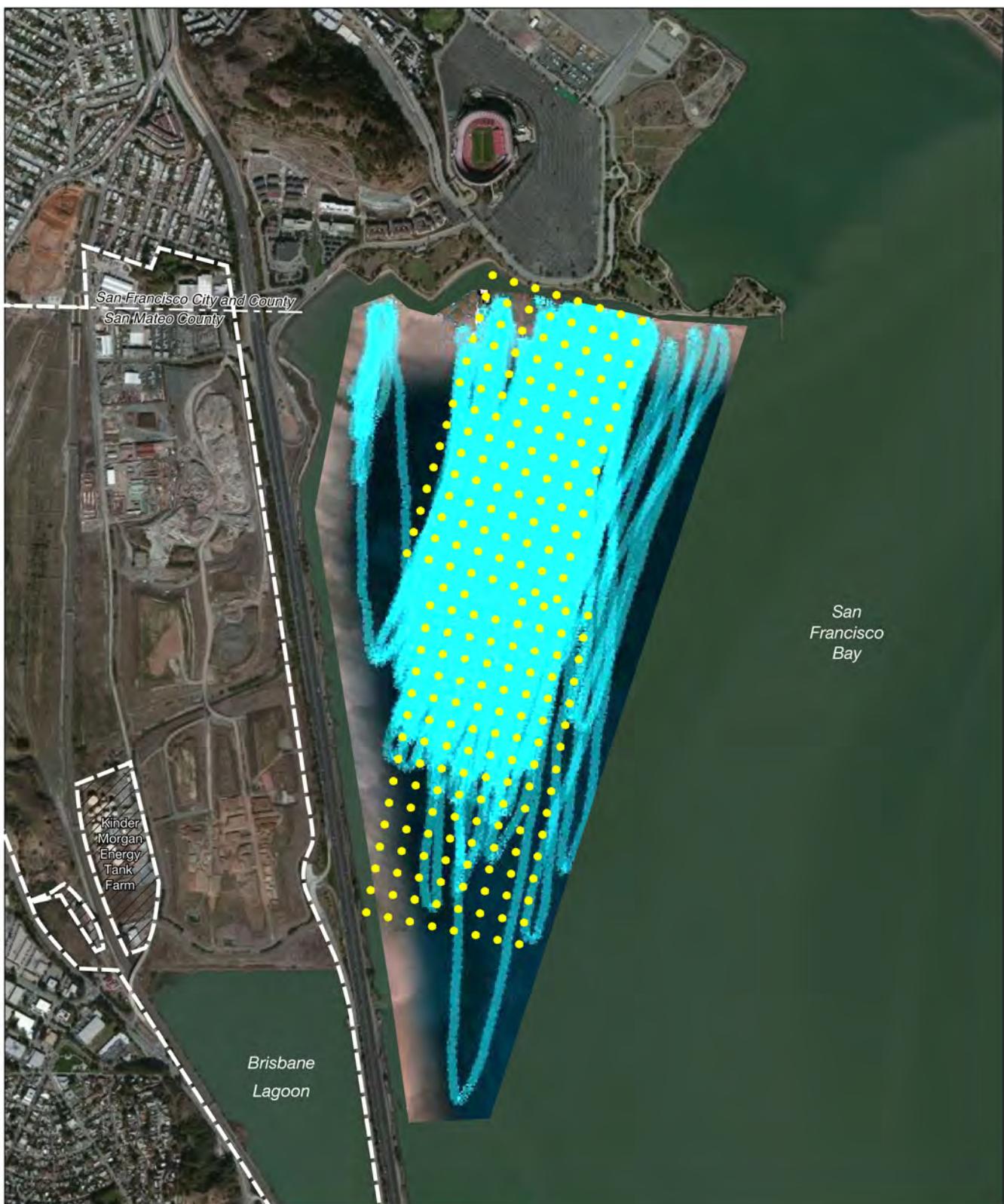
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Community Proposed Plan



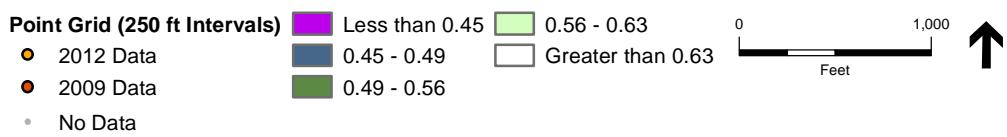
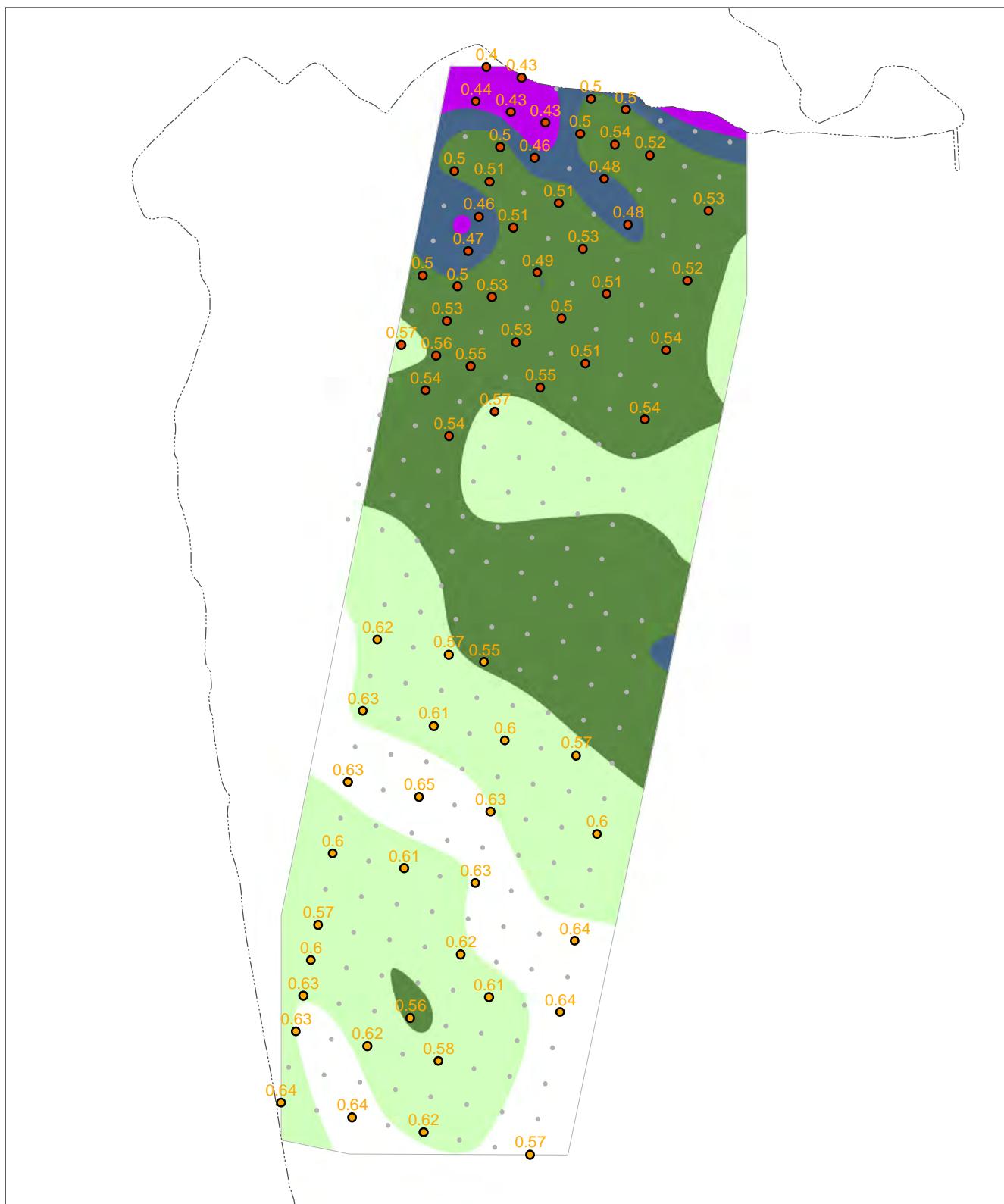
Developer-Sponsored Plan with existing model reference in place



SOURCE: ESA, 2012

Brisbane Baylands . 206069

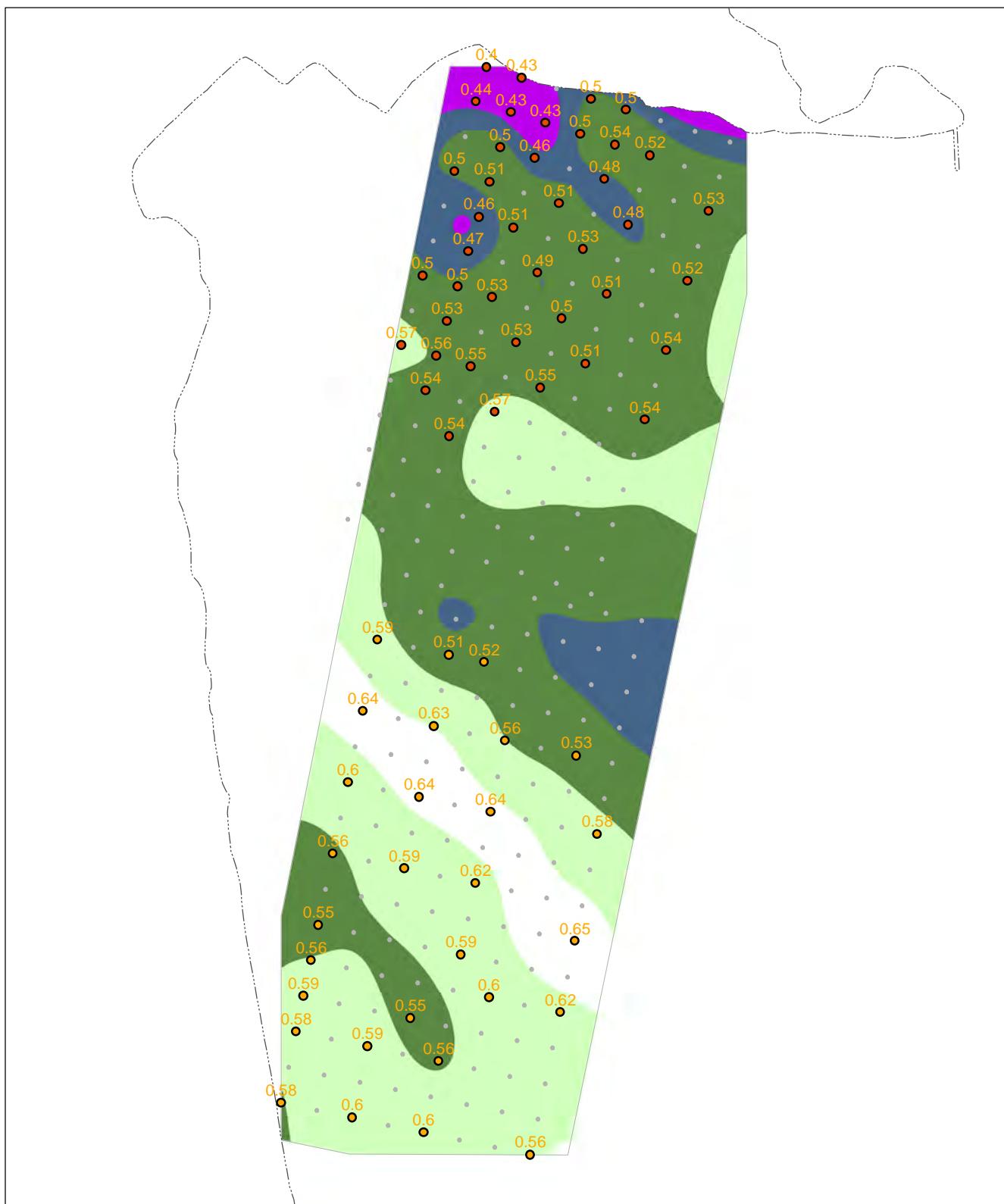
**Figure 2**  
Study Area with Wind Tunnel Measurement Points



SOURCE: ESA

Brisbane Baylands . 206069

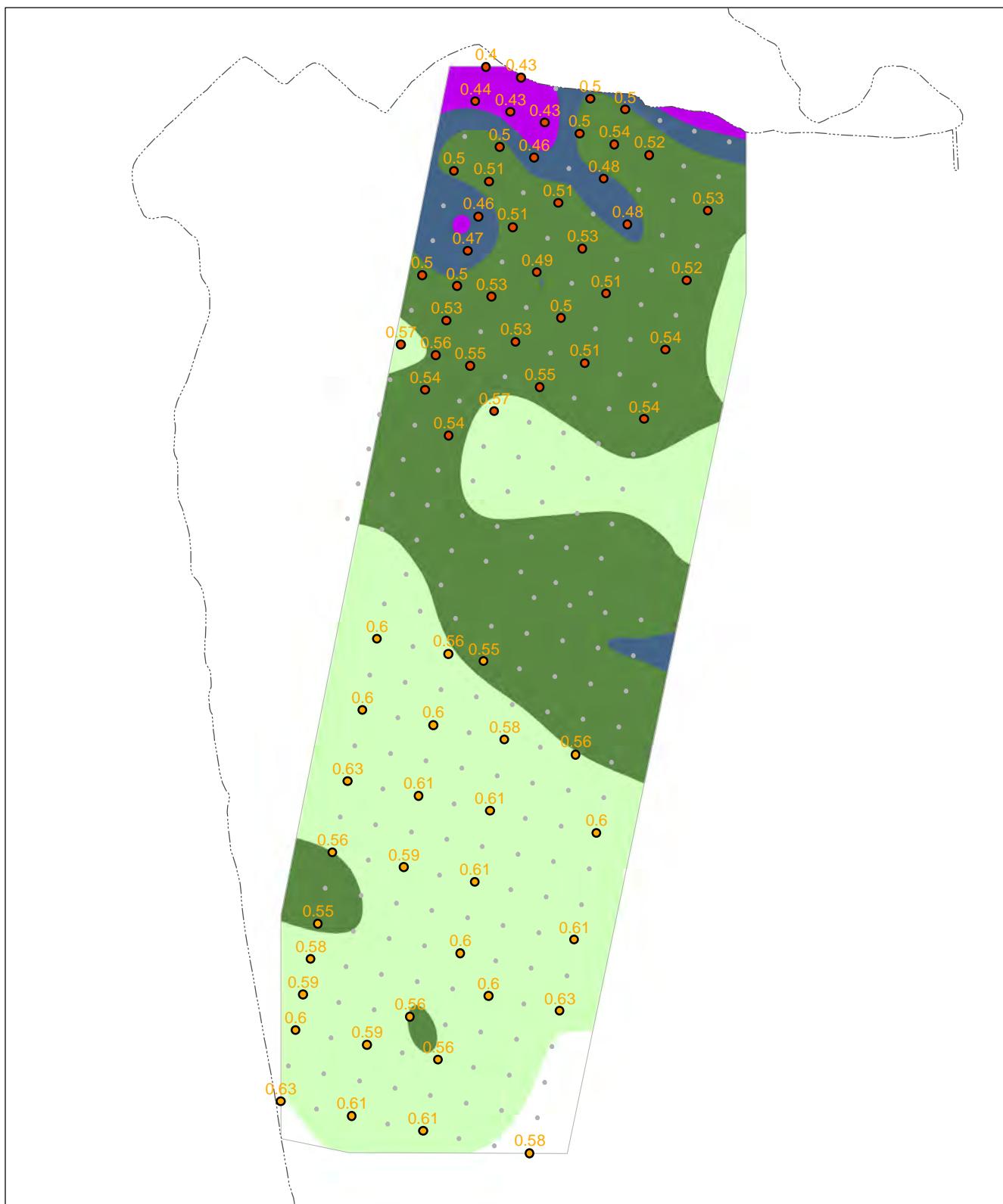
**Figure 3**  
NW Wind - R Values  
Existing



SOURCE: ESA

Brisbane Baylands . 206069

**Figure 4**  
NW Wind - R Values  
Project



**Point Grid (250 ft Intervals)**

Less than 0.45

0.56 - 0.63

0.45 - 0.49

0.49 - 0.56

Greater than 0.63

0

1,000

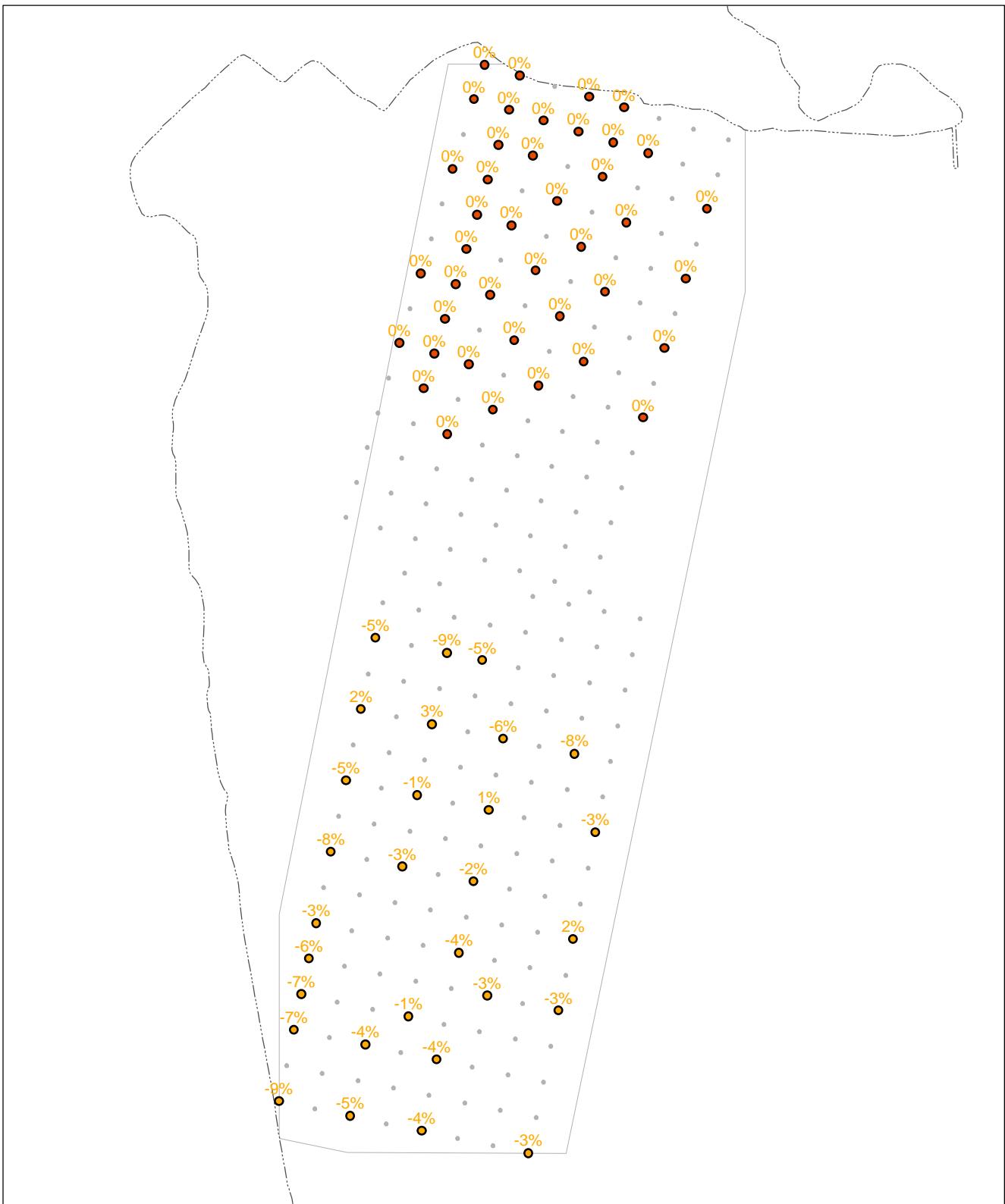
Feet



SOURCE: ESA

Brisbane Baylands . 206069

**Figure 5**  
NW Wind - R Values  
Community



**Point Grid (250 ft Intervals)**

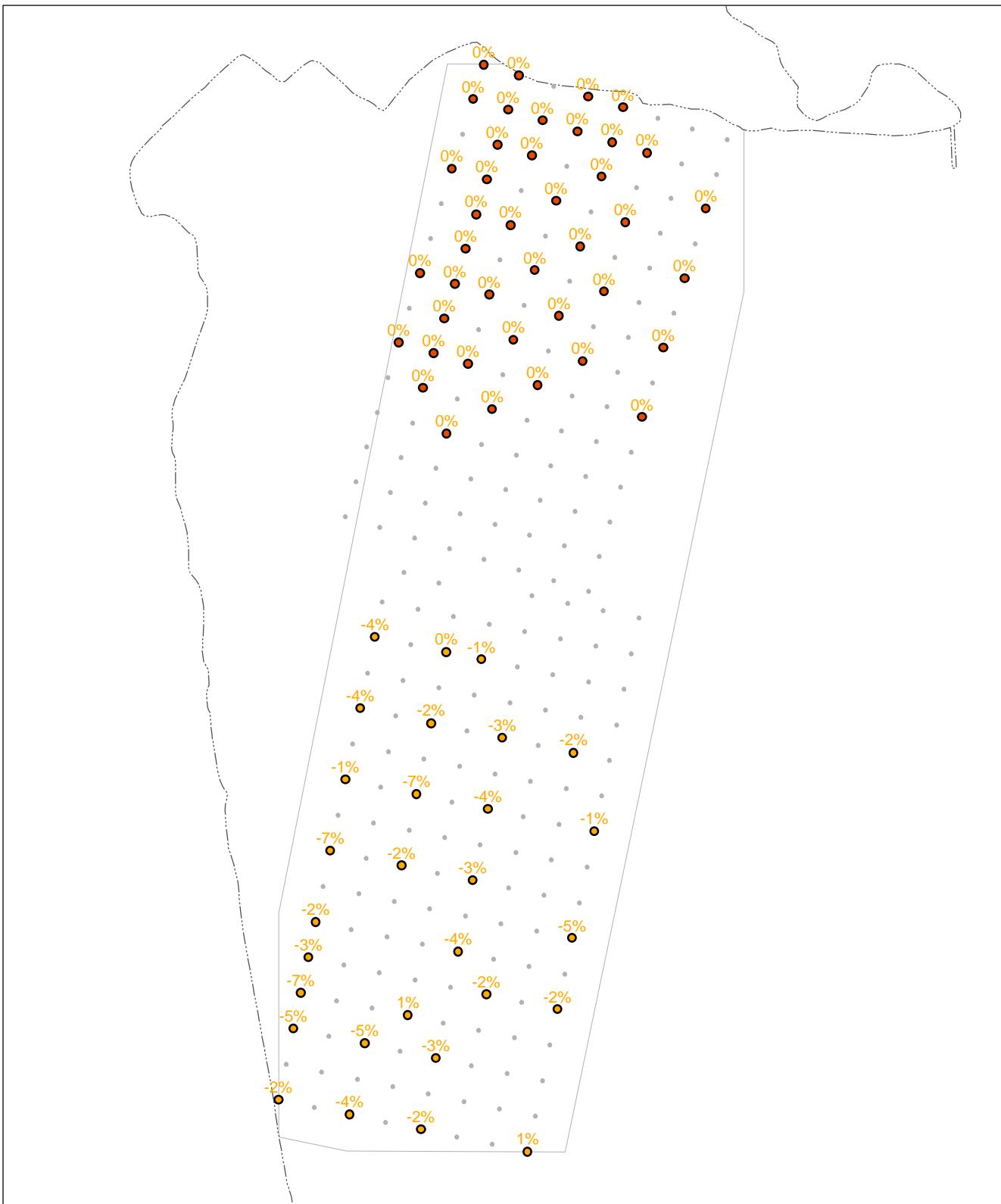
- 2012 Data
- 2009 Data
- No Data

SOURCE: ESA



Brisbane Baylands . 206069

**Figure 6**  
NW Wind - % Change in R  
Project - Existing



**Point Grid (250 ft Intervals)**

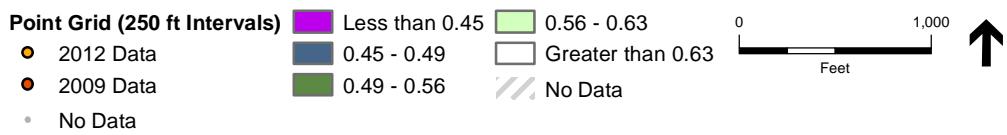
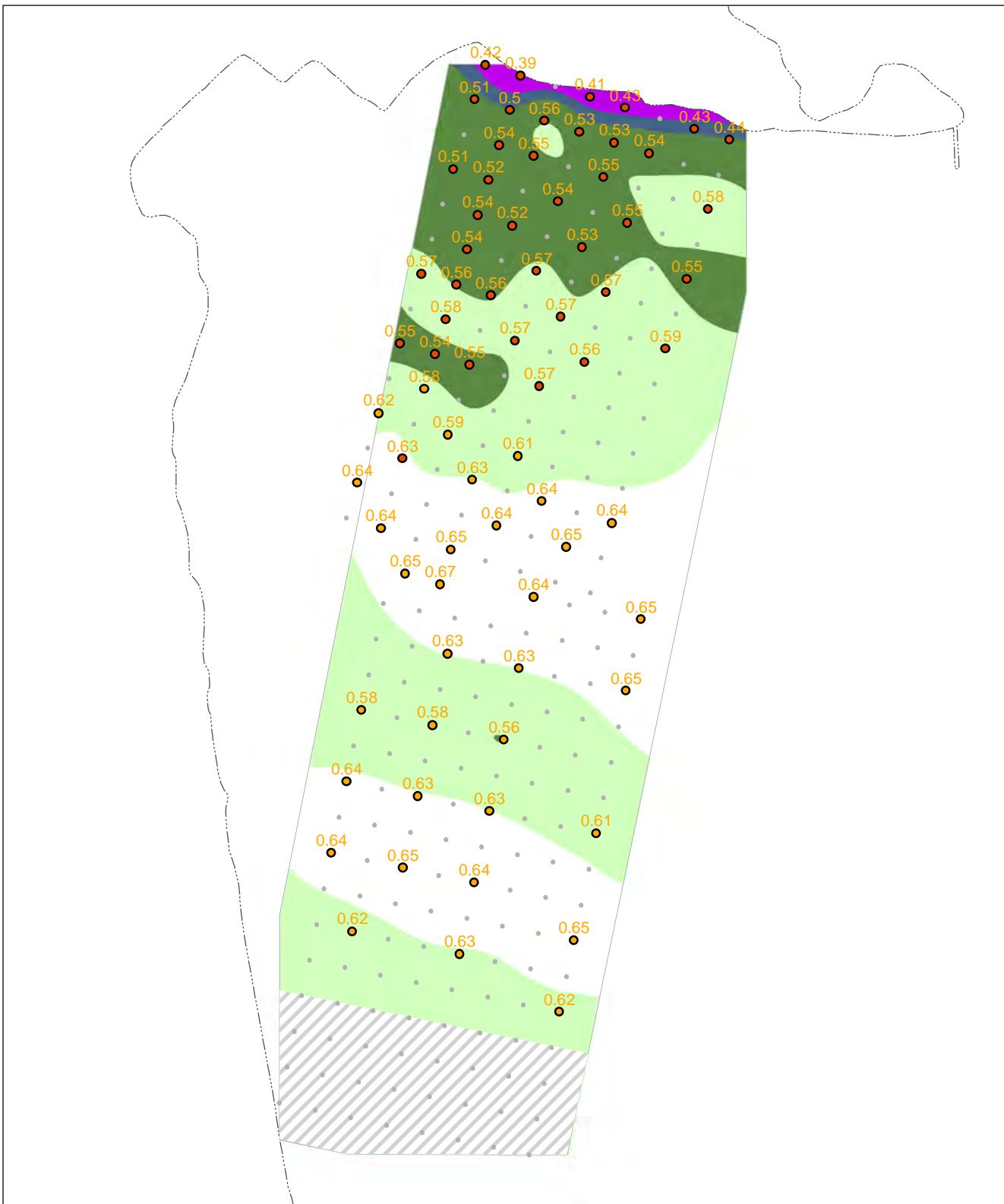
- Greater than 10% Decrease
- 10% Decrease to 3% Increase
- 2012 Data
- 2009 Data
- No Data

0 1,000  
Feet ↑

SOURCE: ESA

Brisbane Baylands . 206069

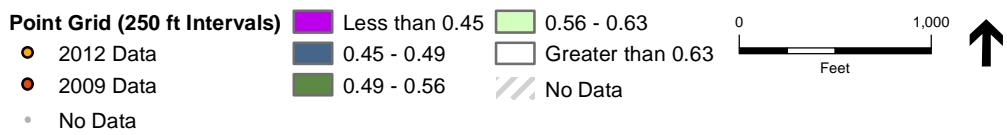
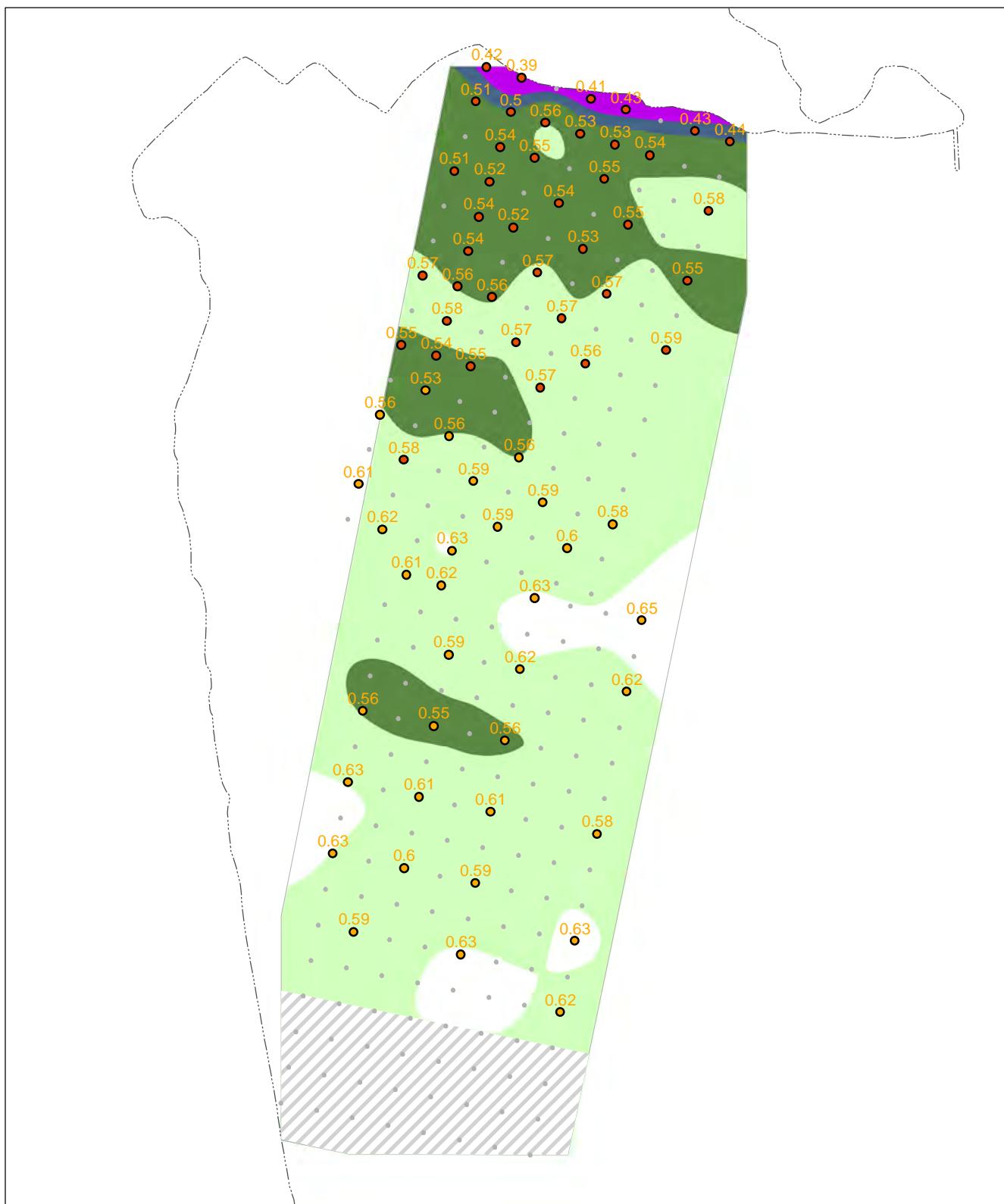
**Figure 7**  
**NW Wind - % Change in R Community - Existing**



SOURCE: ESA

Brisbane Baylands . 206069

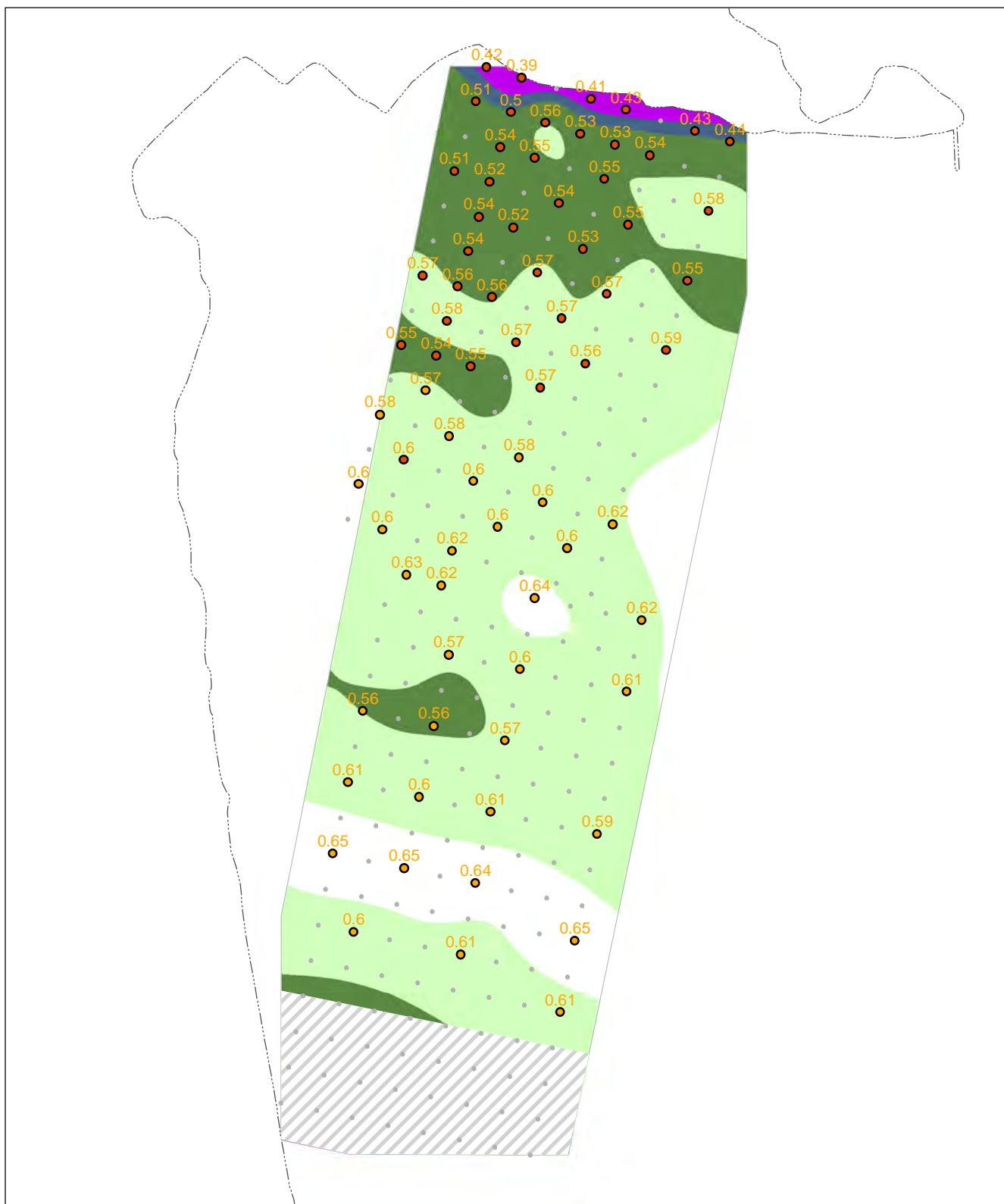
**Figure 8**  
WNW Wind - R Values  
Existing



SOURCE: ESA

Brisbane Baylands . 206069

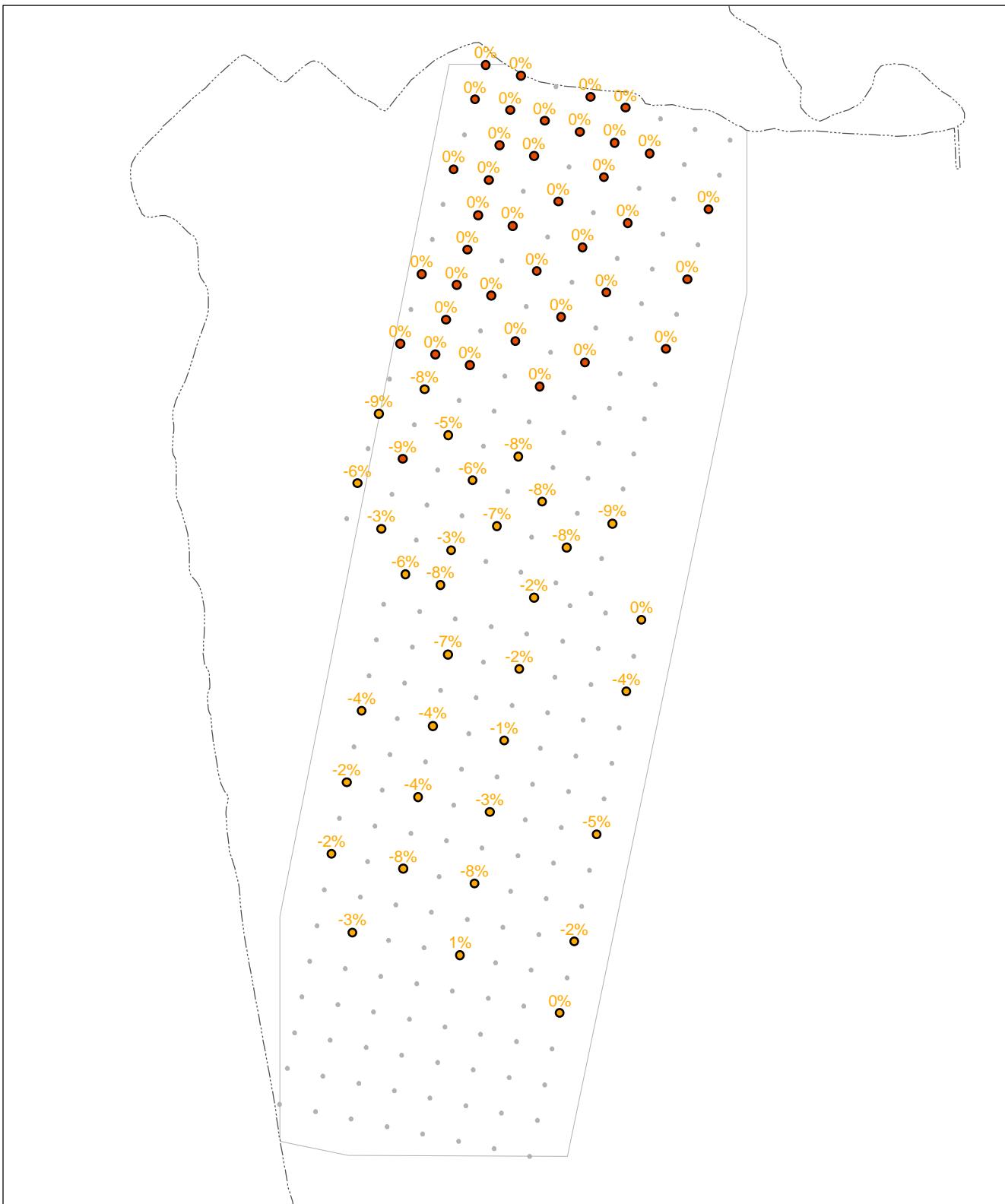
**Figure 9**  
WNW Wind - R Values  
Project



Brisbane Baylands . 206069

**Figure 10**  
WNW Wind - R Values  
Community

SOURCE: ESA



**Point Grid (250 ft Intervals)**

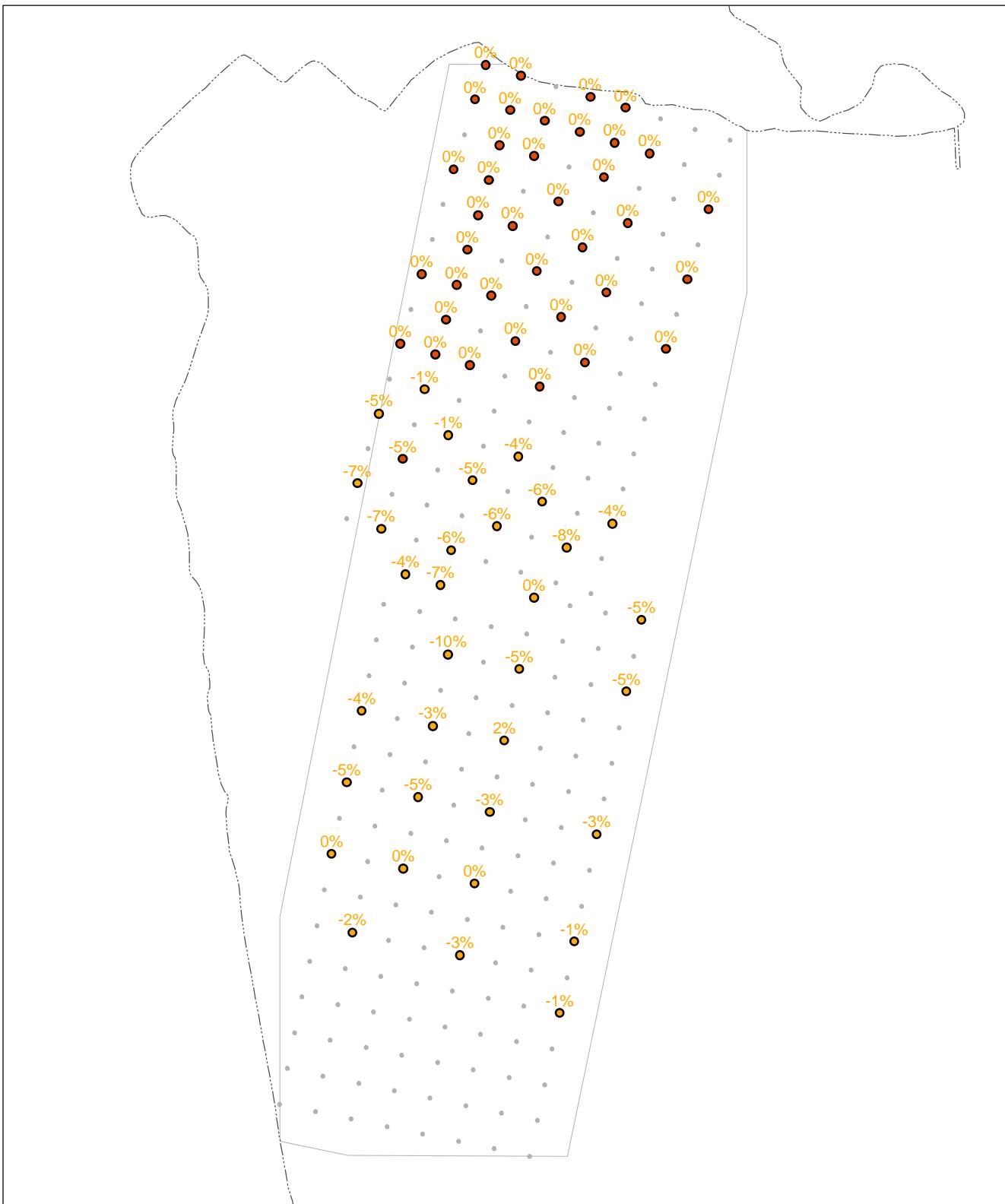
- 2012 Data
- 2009 Data
- No Data

SOURCE: ESA



Brisbane Baylands . 206069

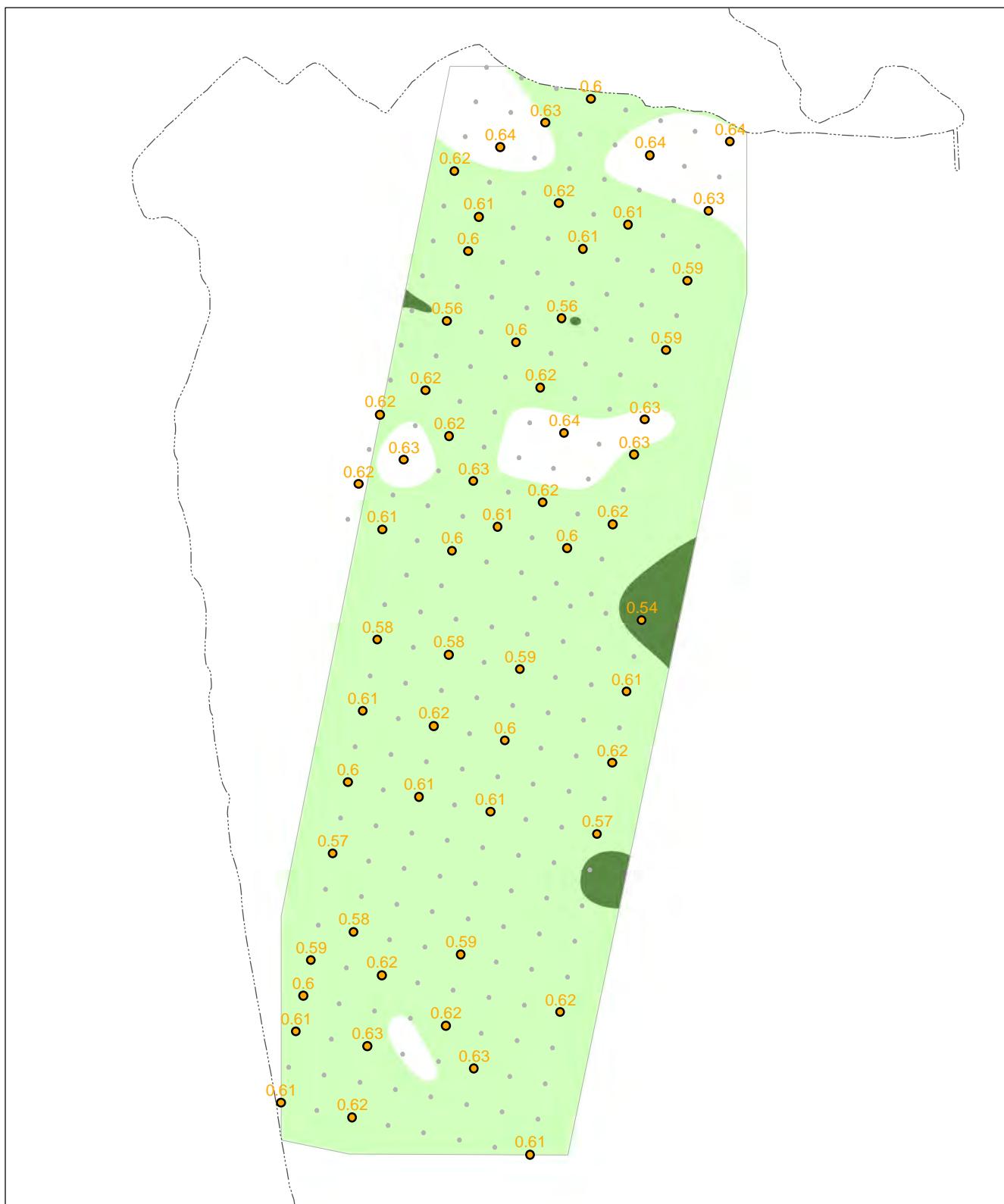
**Figure 11**  
WNW Wind - % Change in R  
Project - Existing



SOURCE: ESA

Brisbane Baylands . 206069

**Figure 12**  
WNW Wind - % Change in R  
Community - Existing



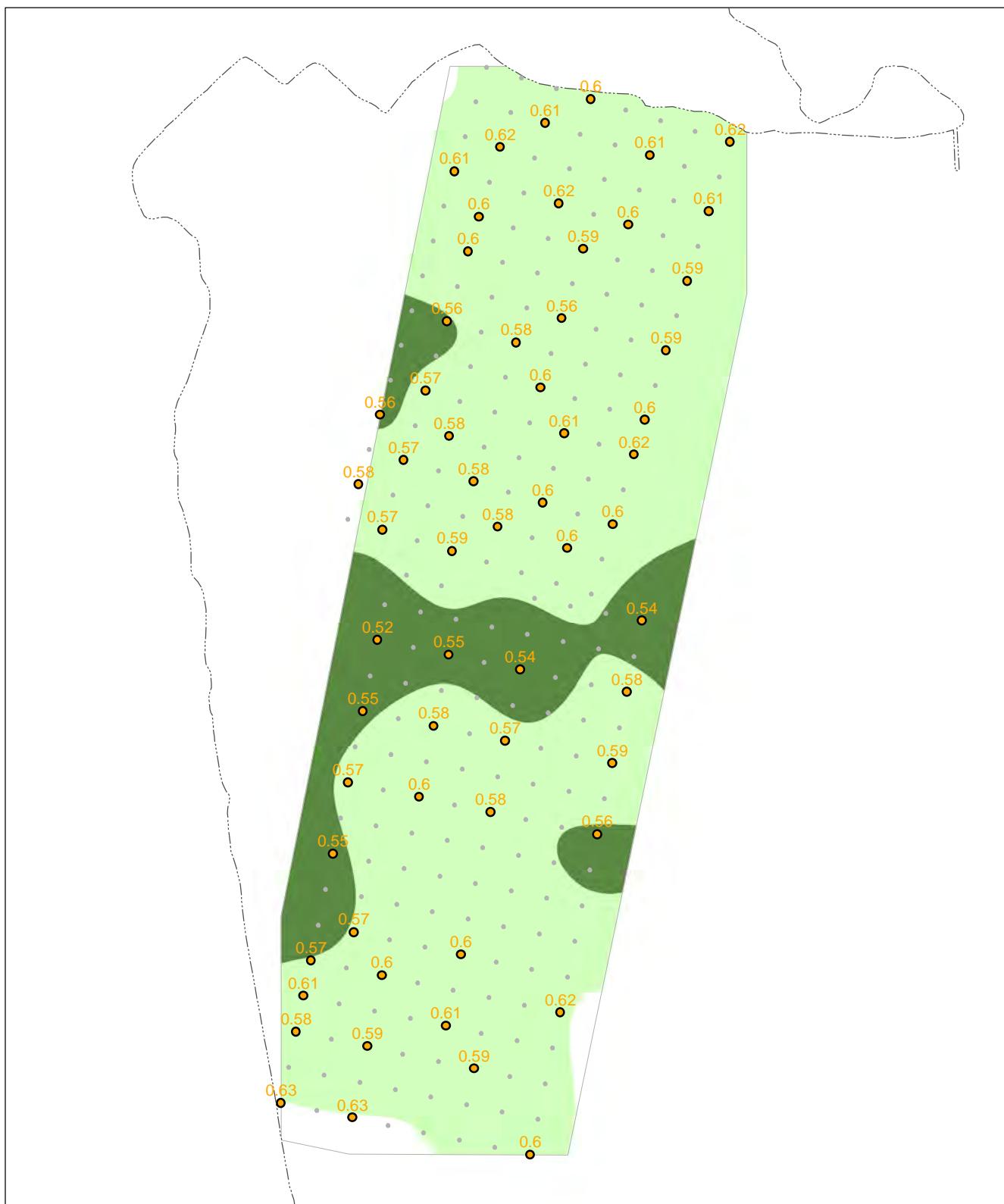
**Point Grid (250 ft Intervals)**

- Less than 0.45
- 0.45 - 0.49
- 0.56 - 0.63
- 0.49 - 0.56
- Greater than 0.63

● 2012 Data  
● 2009 Data  
• No Data

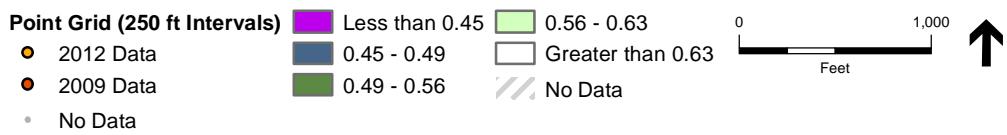
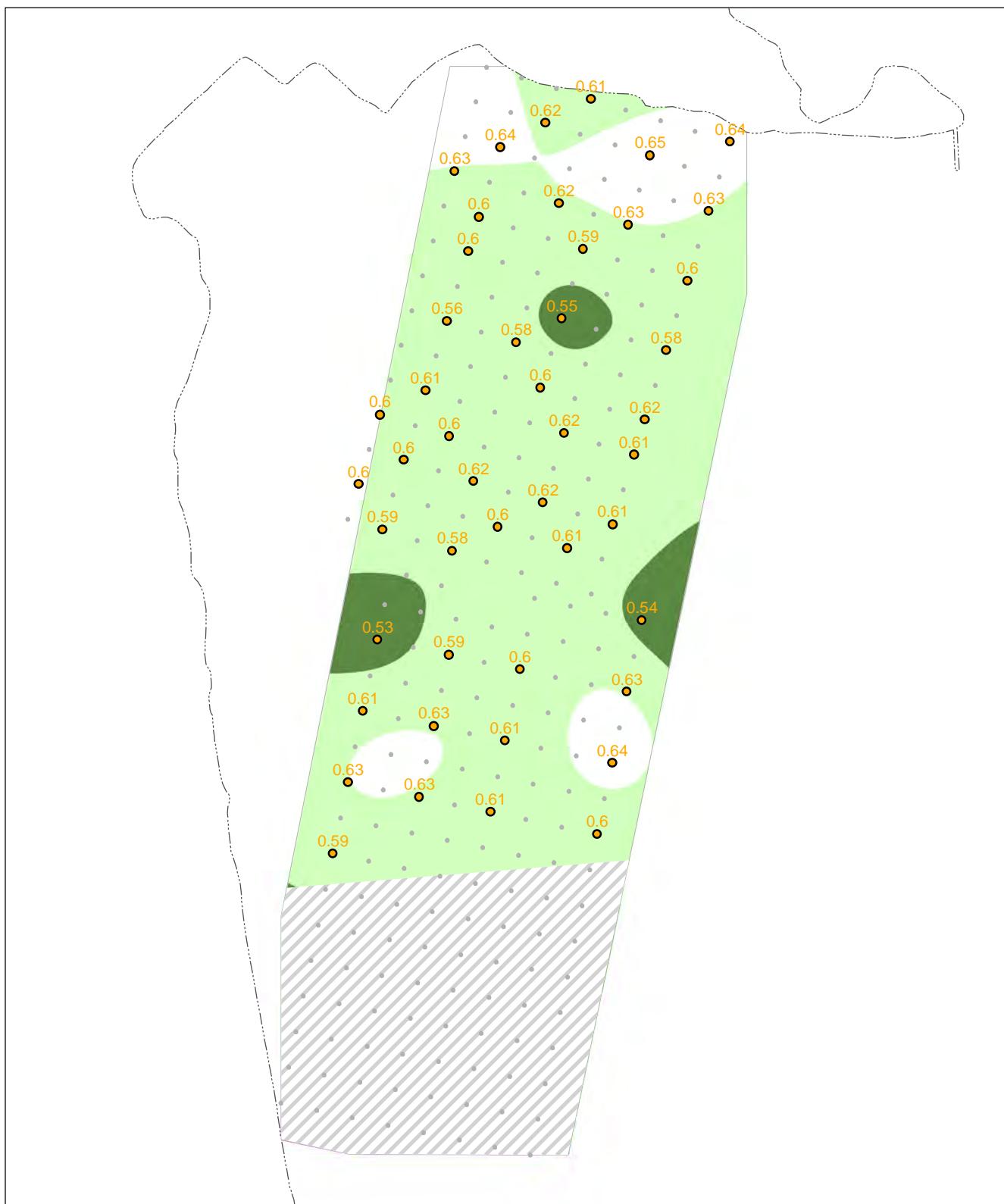
SOURCE: ESA

Brisbane Baylands . 206069  
**Figure 13**  
W Wind - R Values  
Existing



SOURCE: ESA

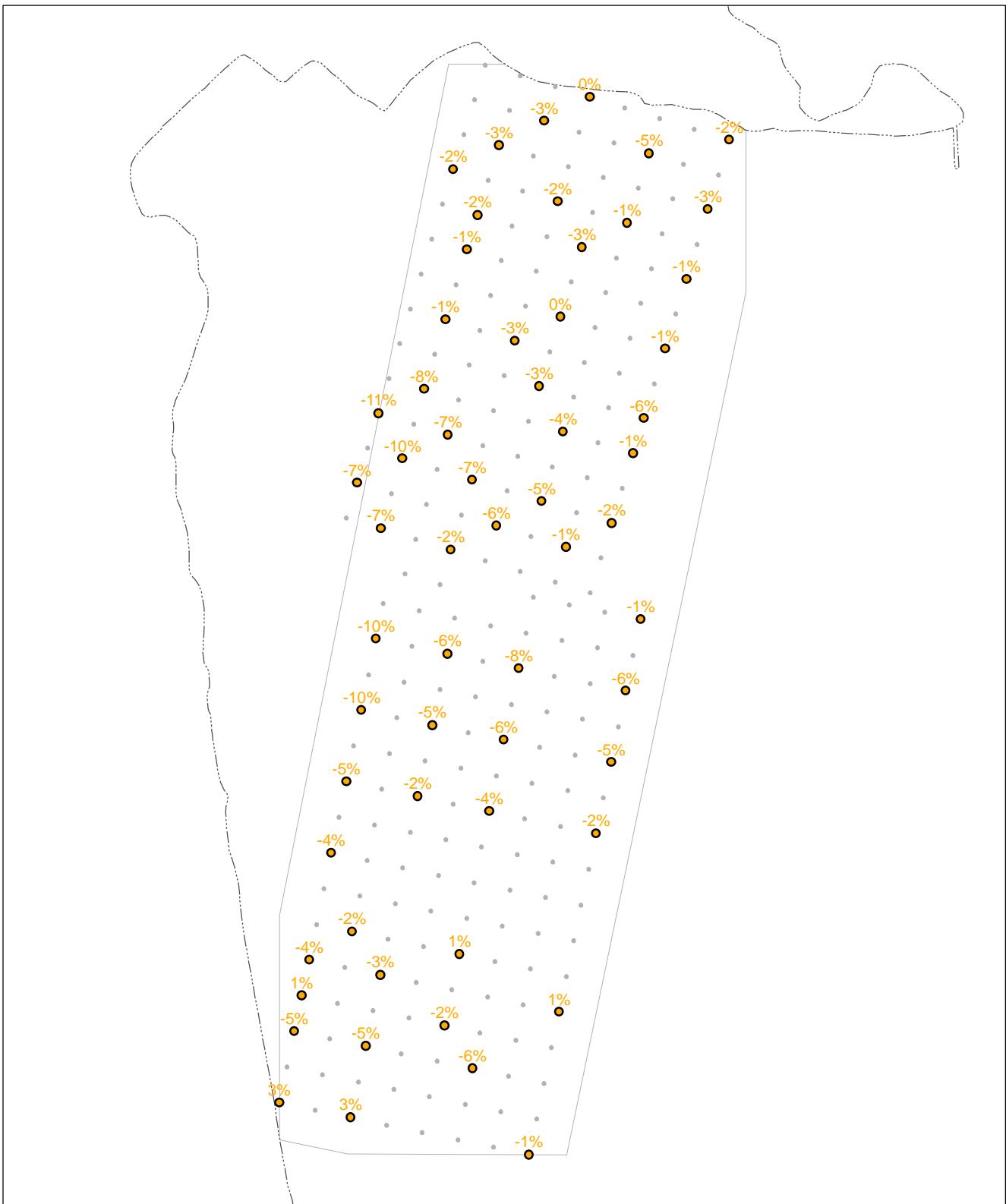
Brisbane Baylands . 206069  
**Figure 14**  
 W Wind - R Values  
 Project



SOURCE: ESA

Brisbane Baylands . 206069

**Figure 15**  
W Wind - R Values  
Community



#### Point Grid (250 ft Intervals)

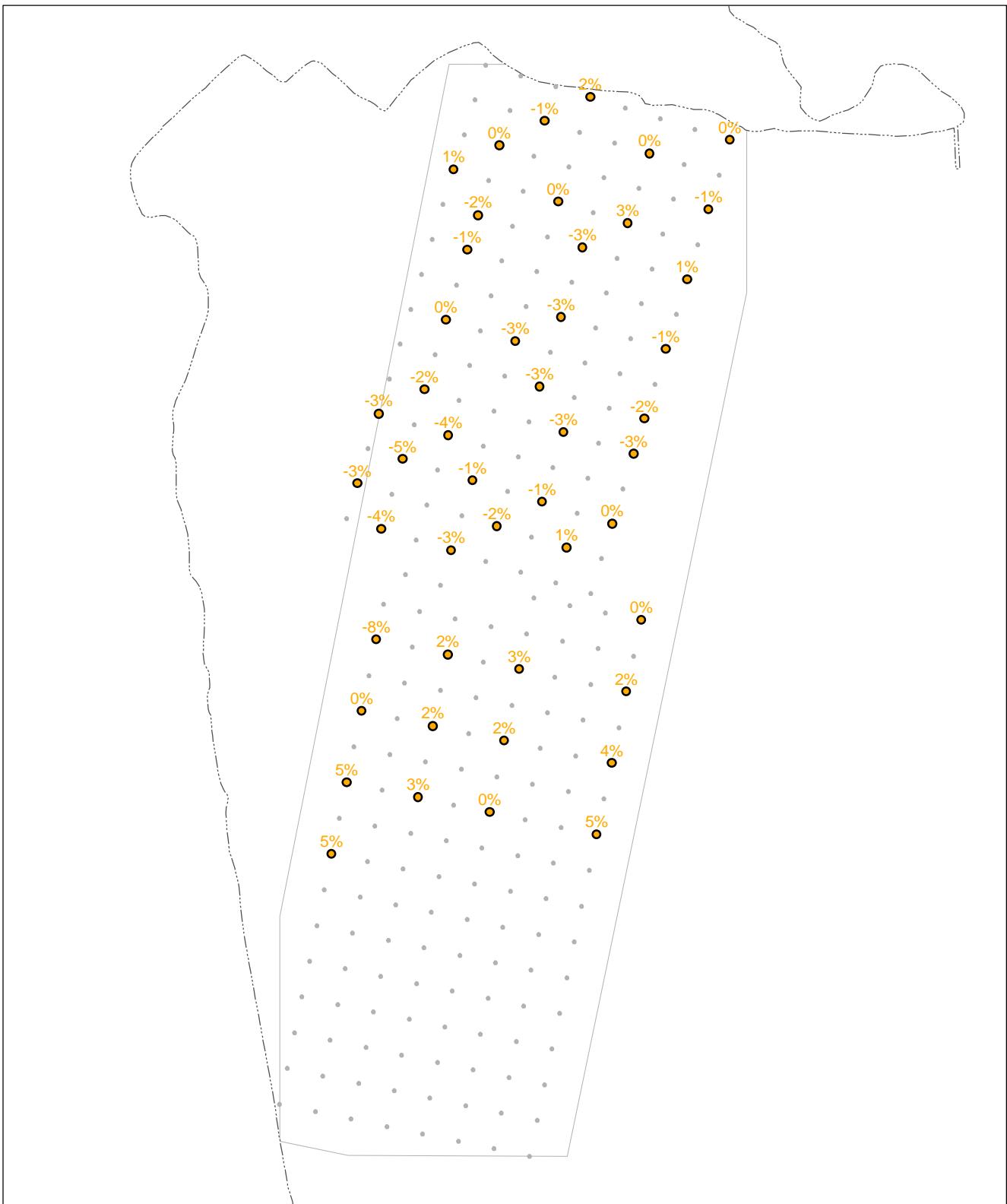
- 2012 Data
- 2009 Data
- No Data

0 1,000  
Feet ↑

Brisbane Baylands . 206069

**Figure 16**  
W Wind - % Change in R  
Project - Existing

SOURCE: ESA



**Point Grid (250 ft Intervals)**

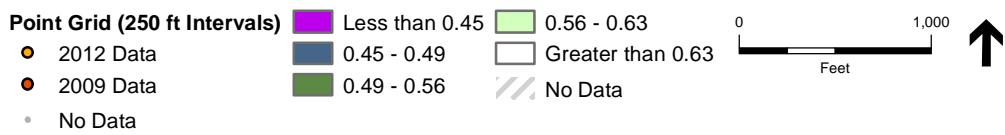
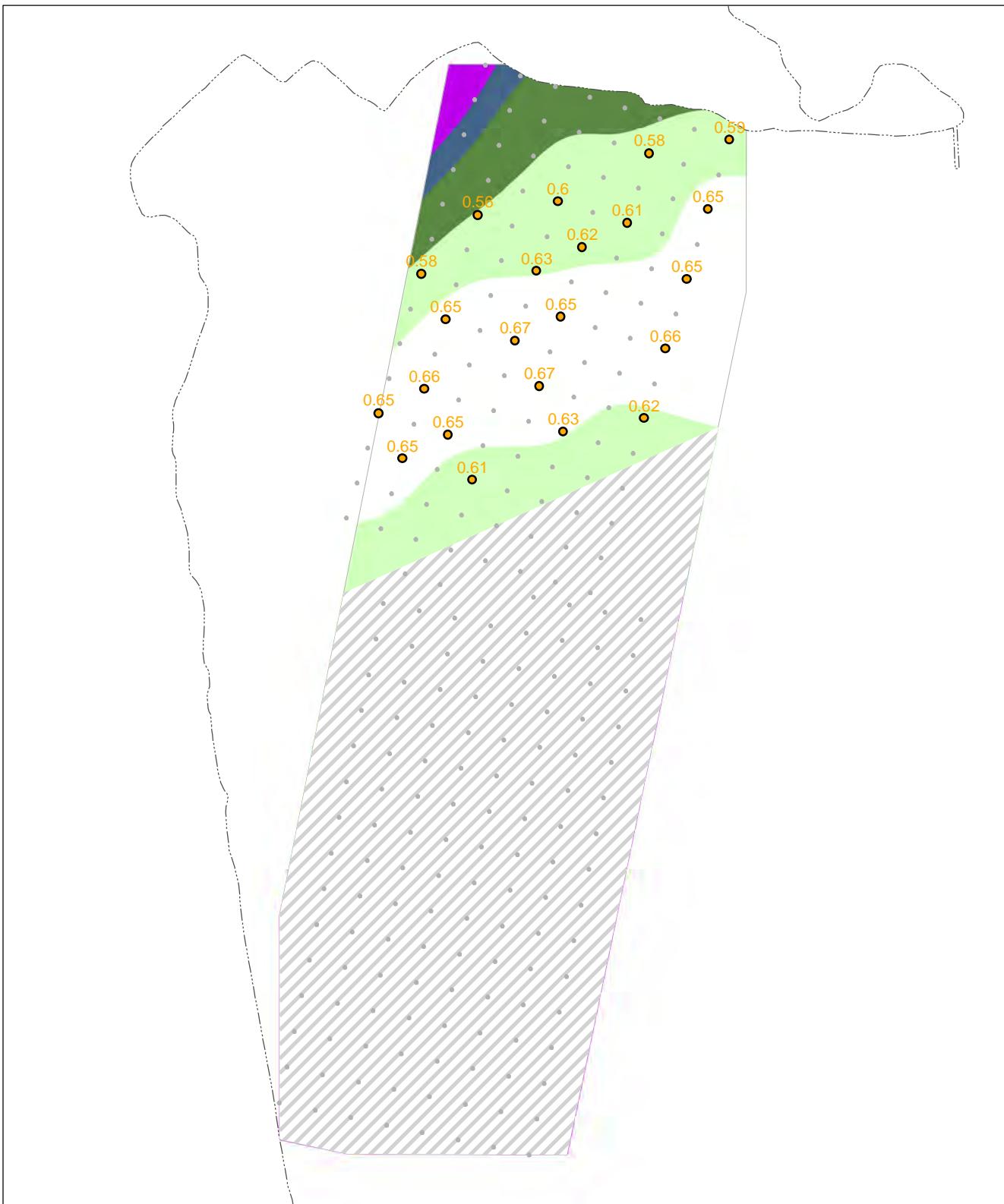
- 2012 Data
- 2009 Data
- No Data

0 1,000  
Feet ↑

SOURCE: ESA

Brisbane Baylands . 206069

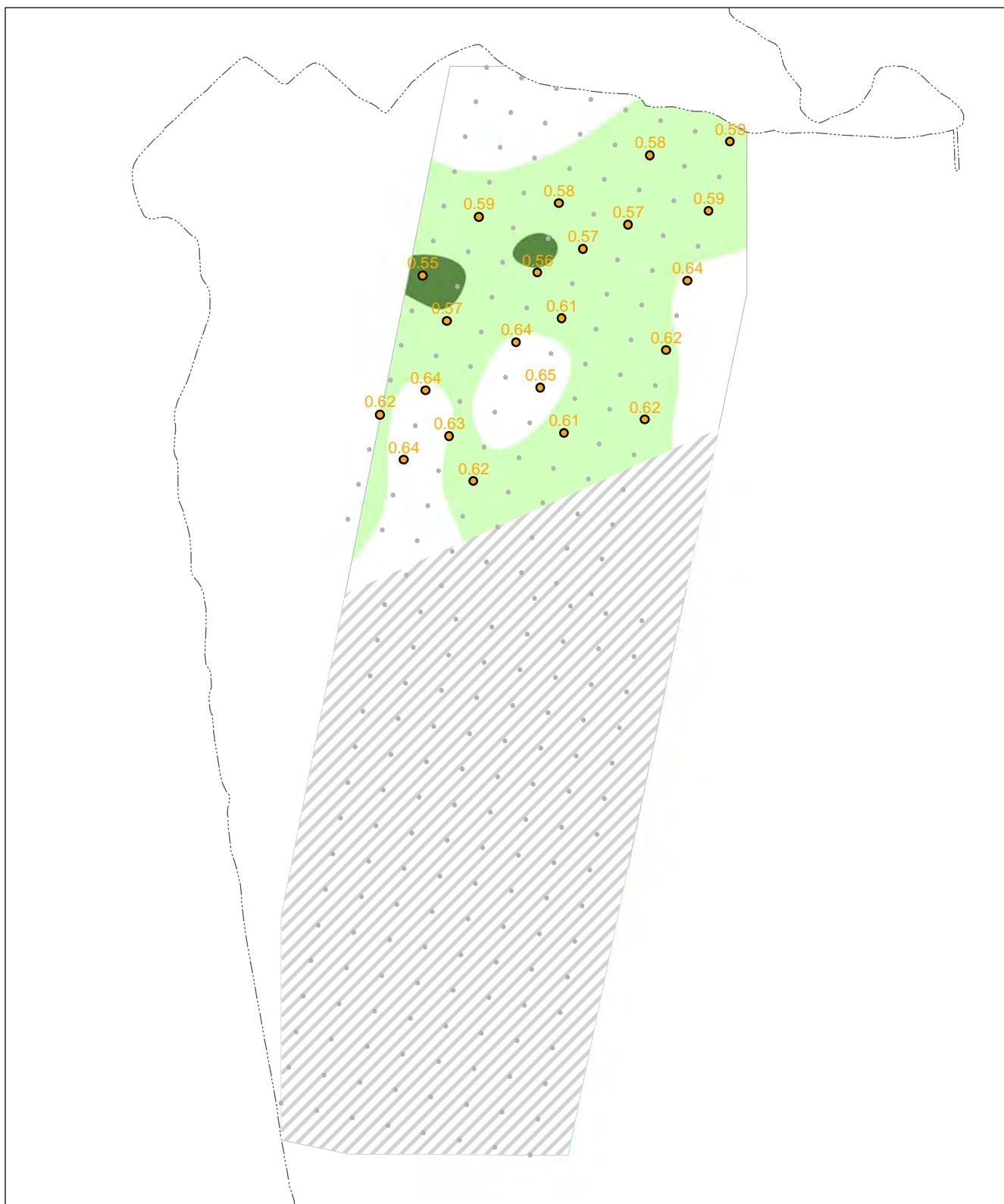
**Figure 17**  
W Wind - % Change in R  
Community - Existing



SOURCE: ESA

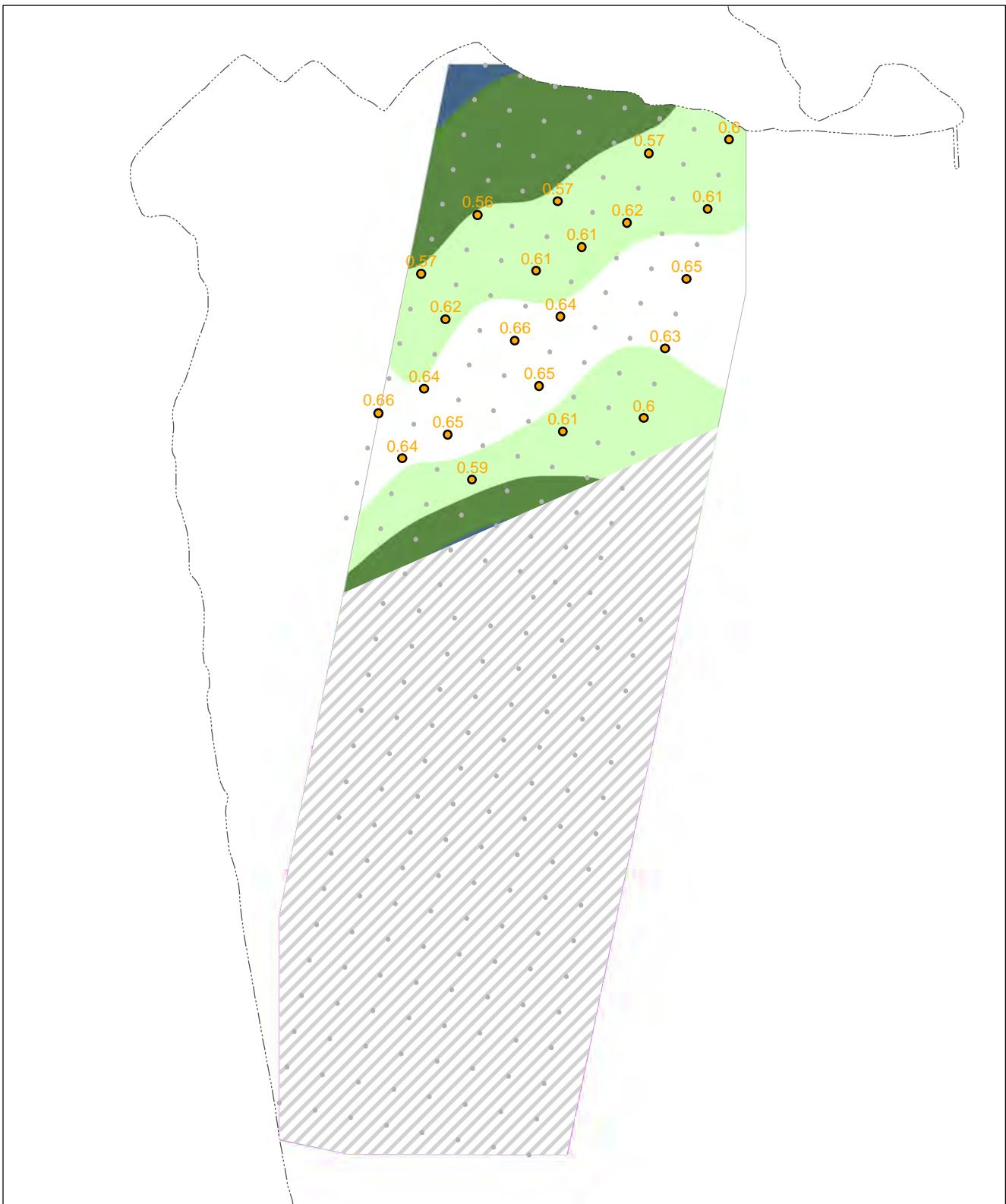
Brisbane Baylands . 206069

**Figure 18**  
WSW Wind - R Values  
Existing



SOURCE: ESA

Brisbane Baylands . 206069  
**Figure 19**  
 WSW Wind - R Values  
 Project



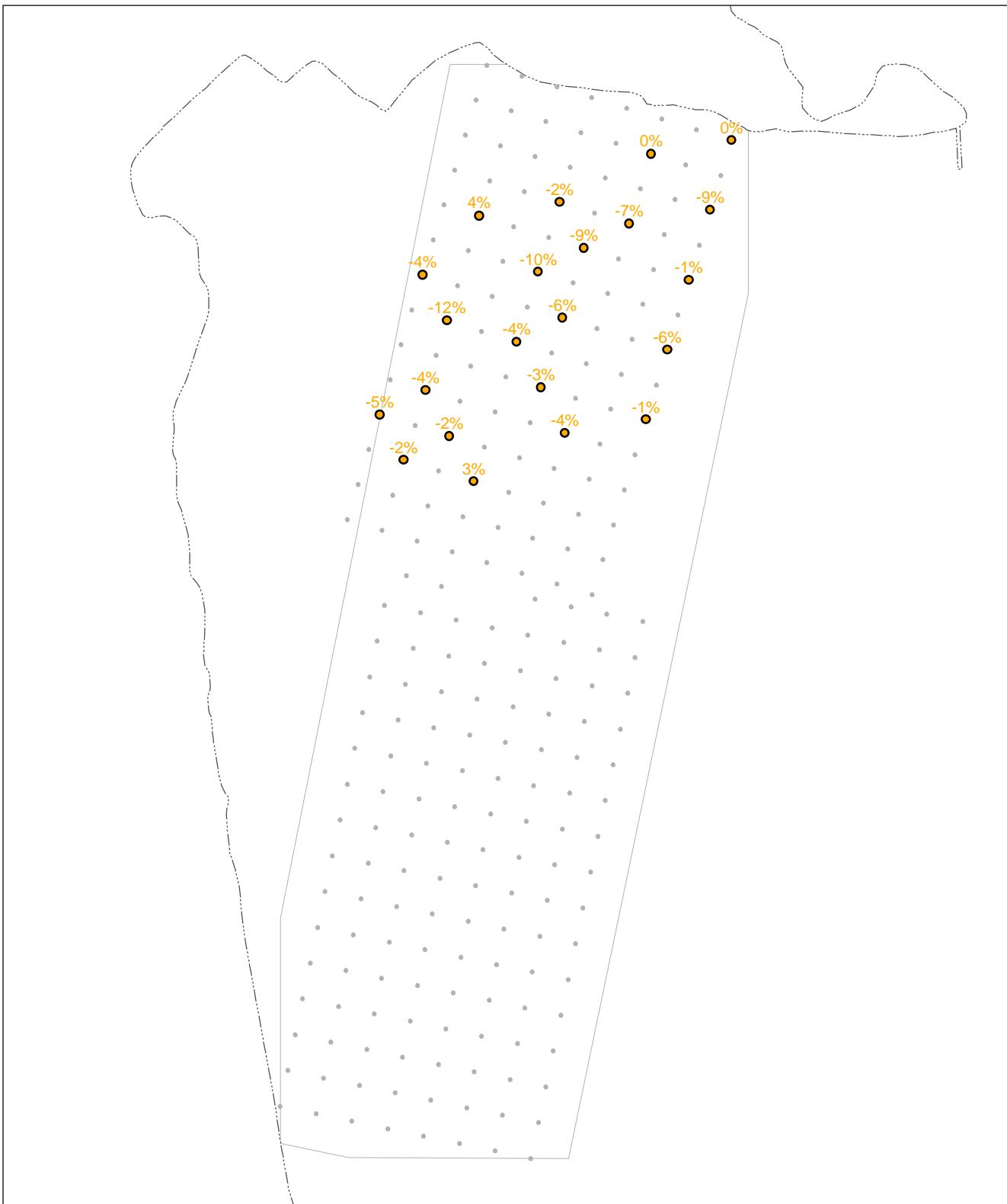
Point Grid (250 ft Intervals)  
 ● 2012 Data  
 ● 2009 Data  
 • No Data

SOURCE: ESA

Less than 0.45    0.56 - 0.63    0.49 - 0.56    0.45 - 0.49    Greater than 0.63  
 No Data

0    1,000  
 Feet

Brisbane Baylands . 206069  
**Figure 20**  
 WSW Wind - R Values  
 Community



#### Point Grid (250 ft Intervals)

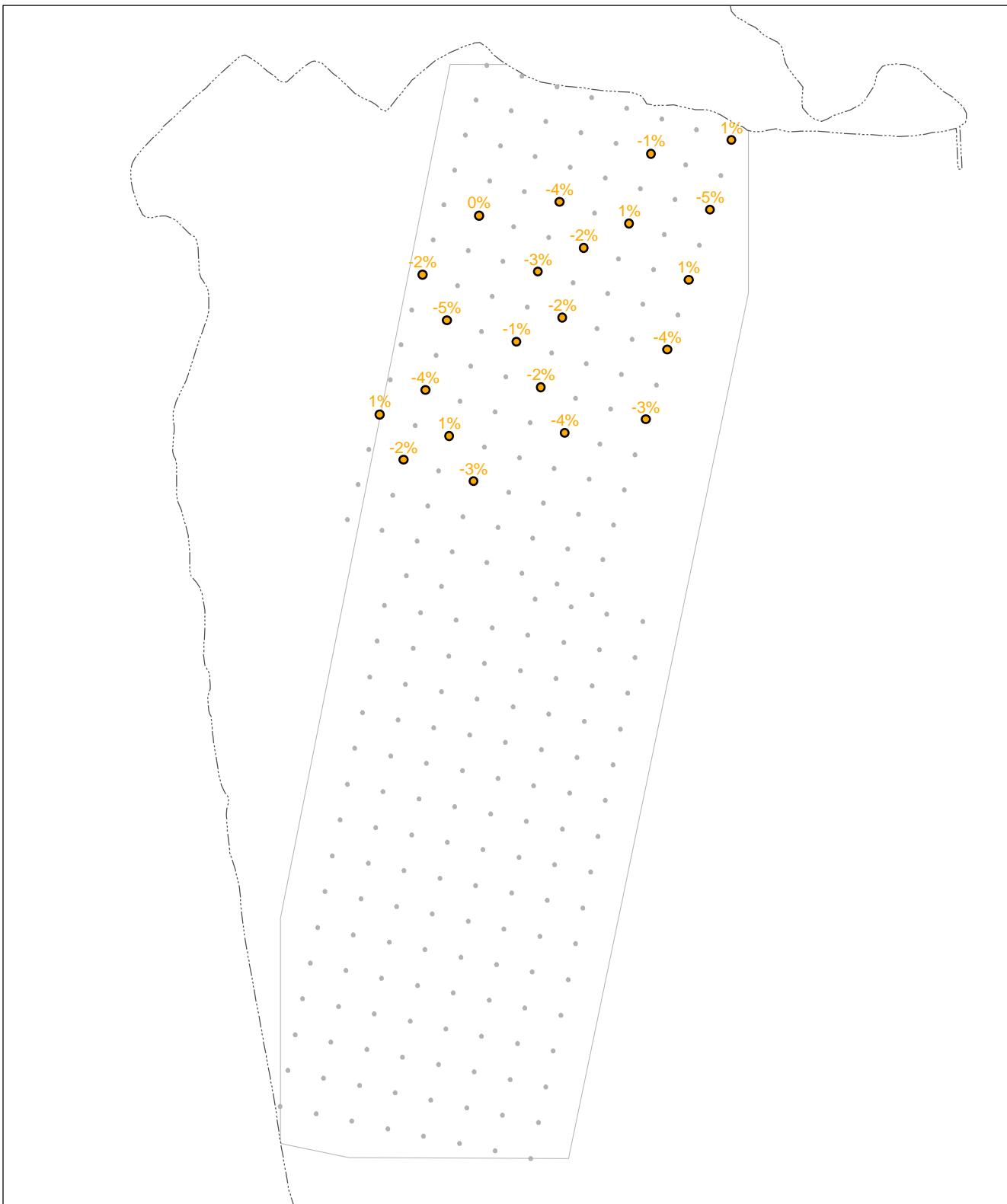
- 2012 Data
- 2009 Data
- No Data

SOURCE: ESA



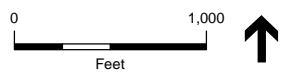
Brisbane Baylands . 206069

**Figure 21**  
WSW Wind - % Change in R  
Project - Existing



**Point Grid (250 ft Intervals)**

- 2012 Data
- 2009 Data
- No Data

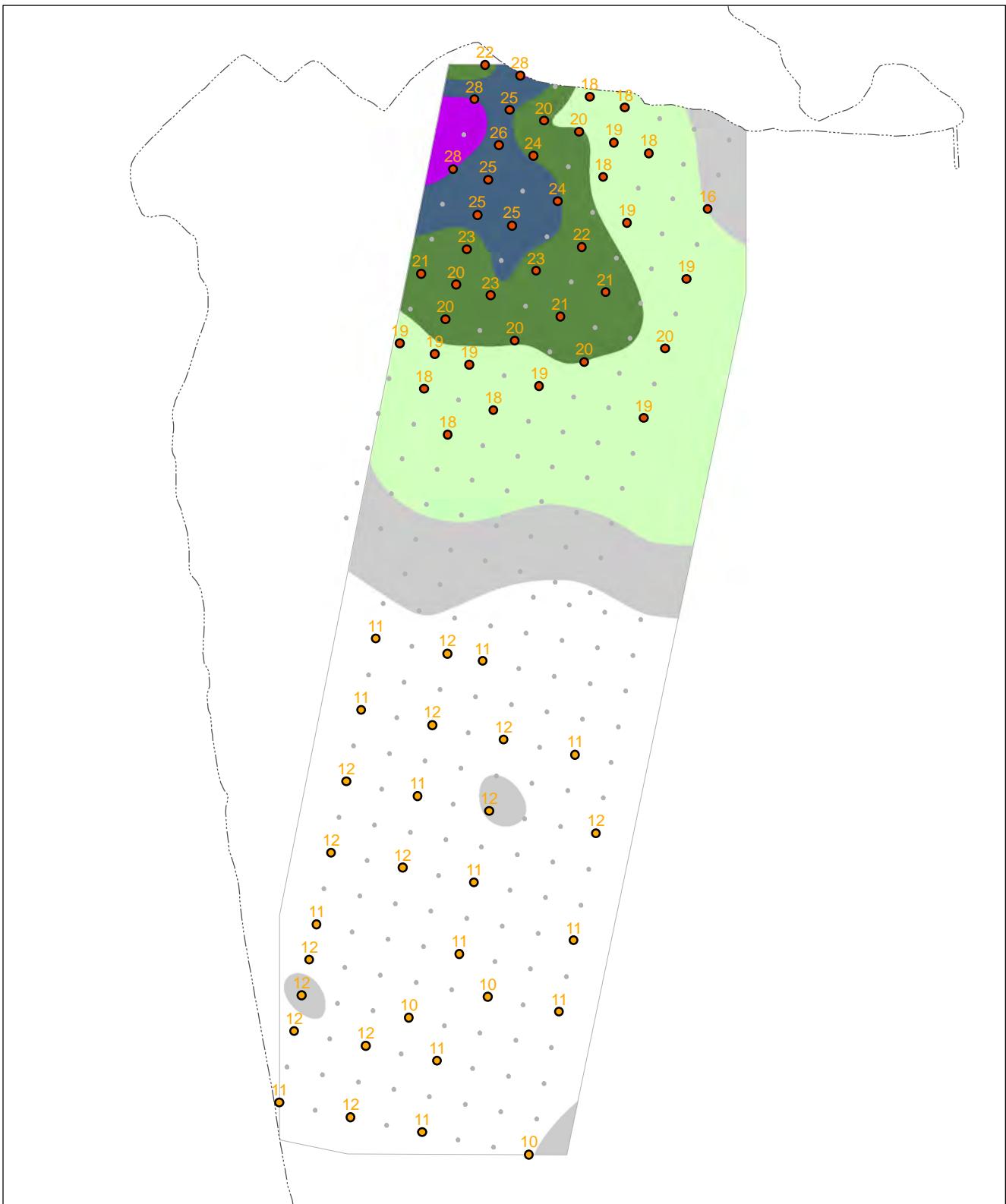


Brisbane Baylands . 206069

**Figure 22**

WSW Wind - % Change in R  
Community - Existing

SOURCE: ESA



**Point Grid (250 ft Intervals)**

- 2012 Data
- 2009 Data
- No Data

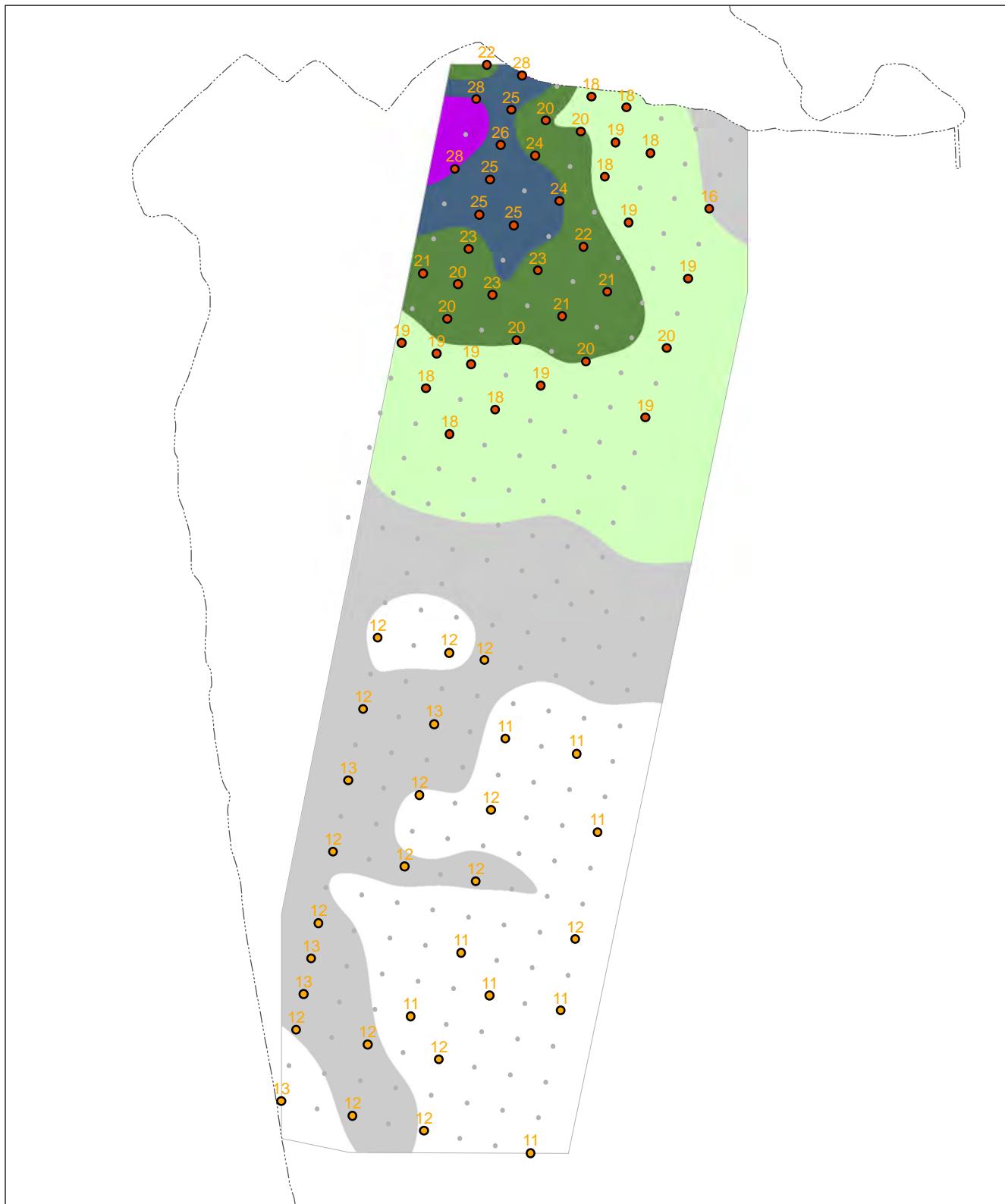
8 - 12	20 - 24
12 - 16	24 - 28
16 - 20	28 - 30

0 1,000  
Feet ↑

Brisbane Baylands . 206069

**Figure 23**  
NW Wind - TI (%)  
Existing

SOURCE: ESA



**Point Grid (250 ft Intervals)**

- White: 8 - 12
- Dark Green: 20 - 24
- Light Gray: 12 - 16
- Dark Blue: 24 - 28
- Light Green: 16 - 20
- Purple: 28 - 30

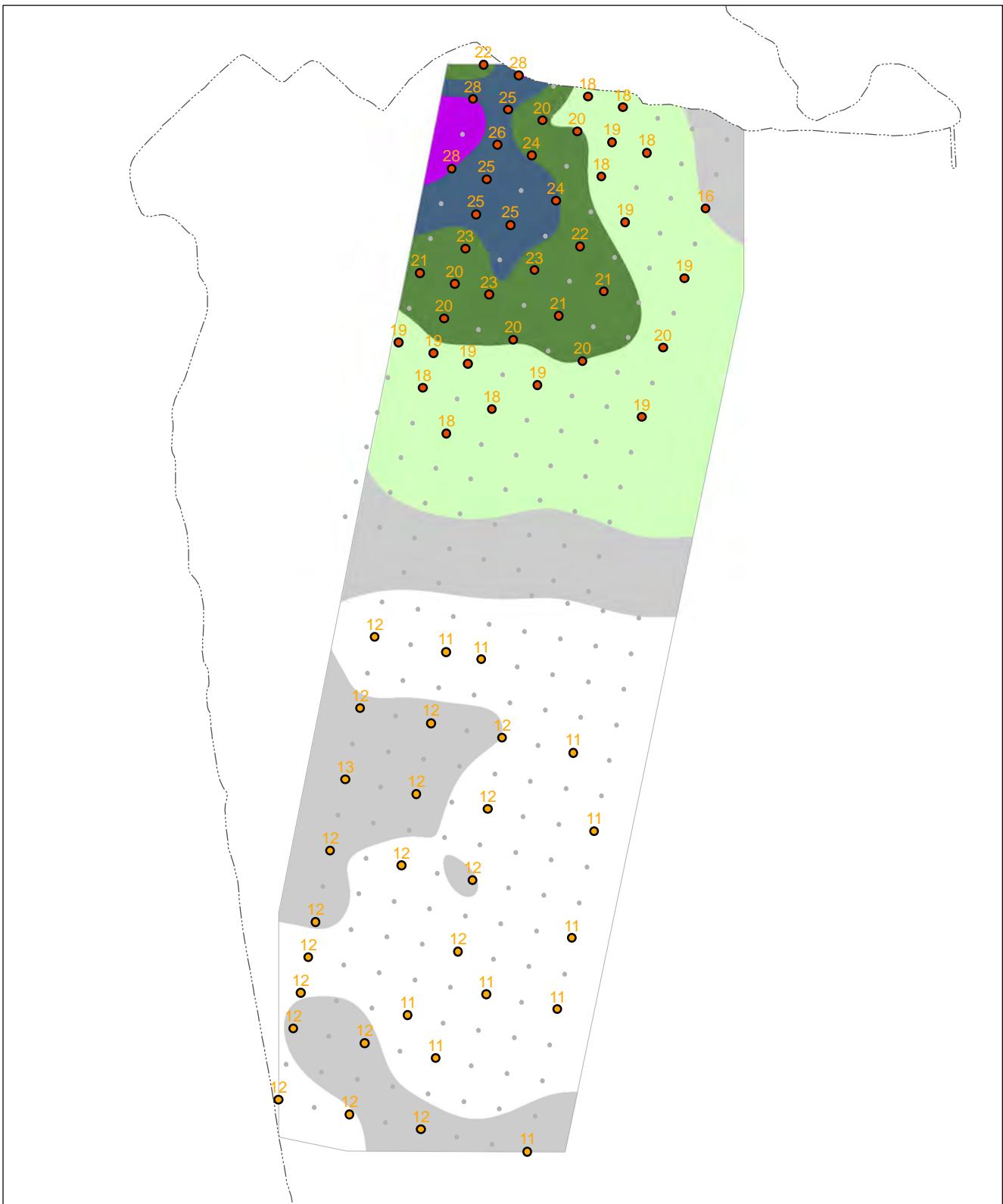
● 2012 Data  
● 2009 Data  
• No Data

0 1,000  
Feet ↑

Brisbane Baylands . 206069

**Figure 24**  
NW Wind - TI (%)  
Project

SOURCE: ESA



**Point Grid (250 ft Intervals)**

- 2012 Data
- 2009 Data
- No Data

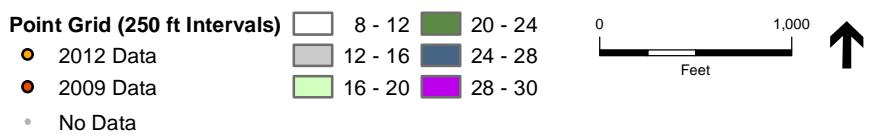
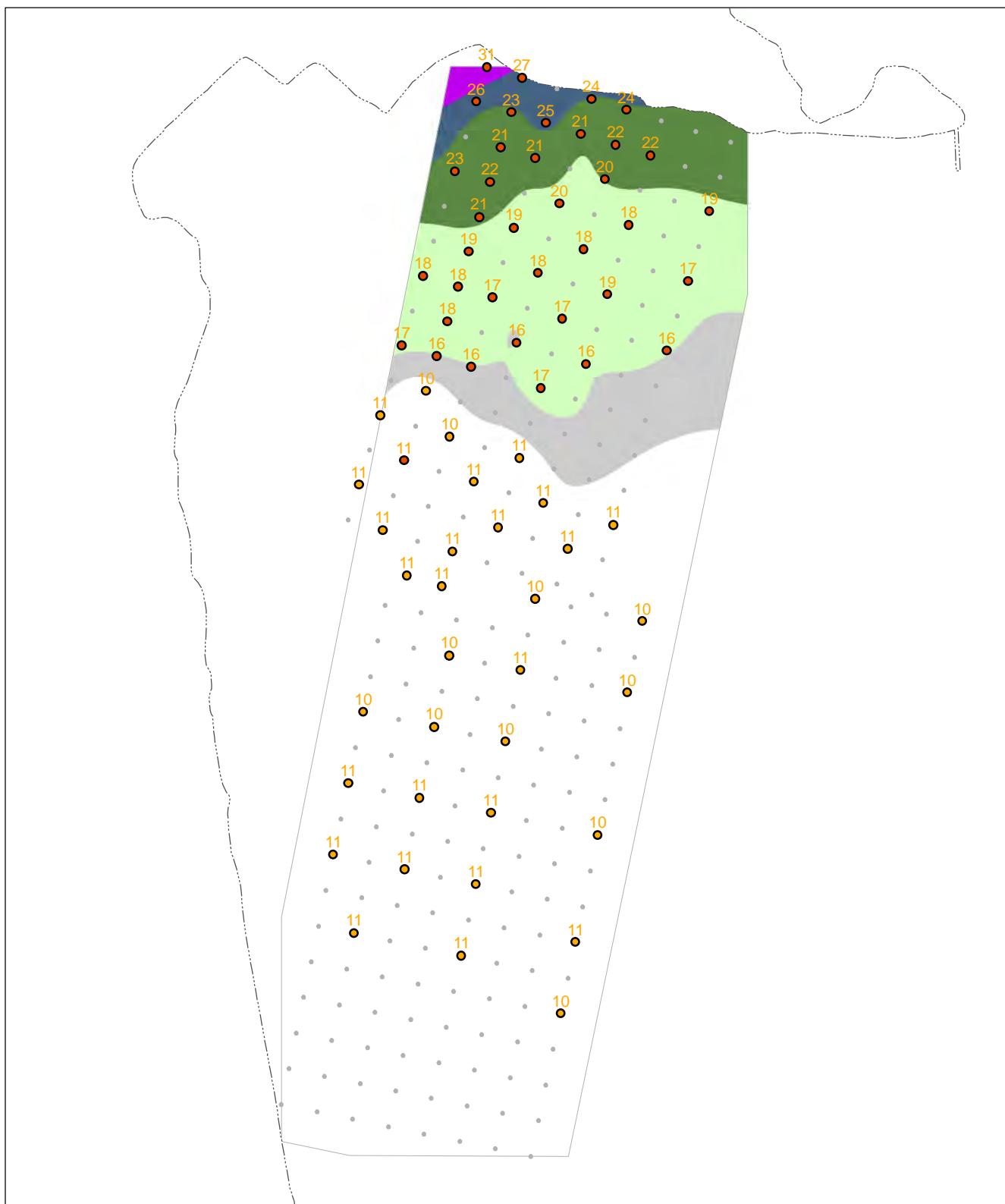
8 - 12	20 - 24
12 - 16	24 - 28
16 - 20	28 - 30

0 1,000  
Feet ↑

Brisbane Baylands . 206069

**Figure 25**  
NW Wind - TI (%)  
Community

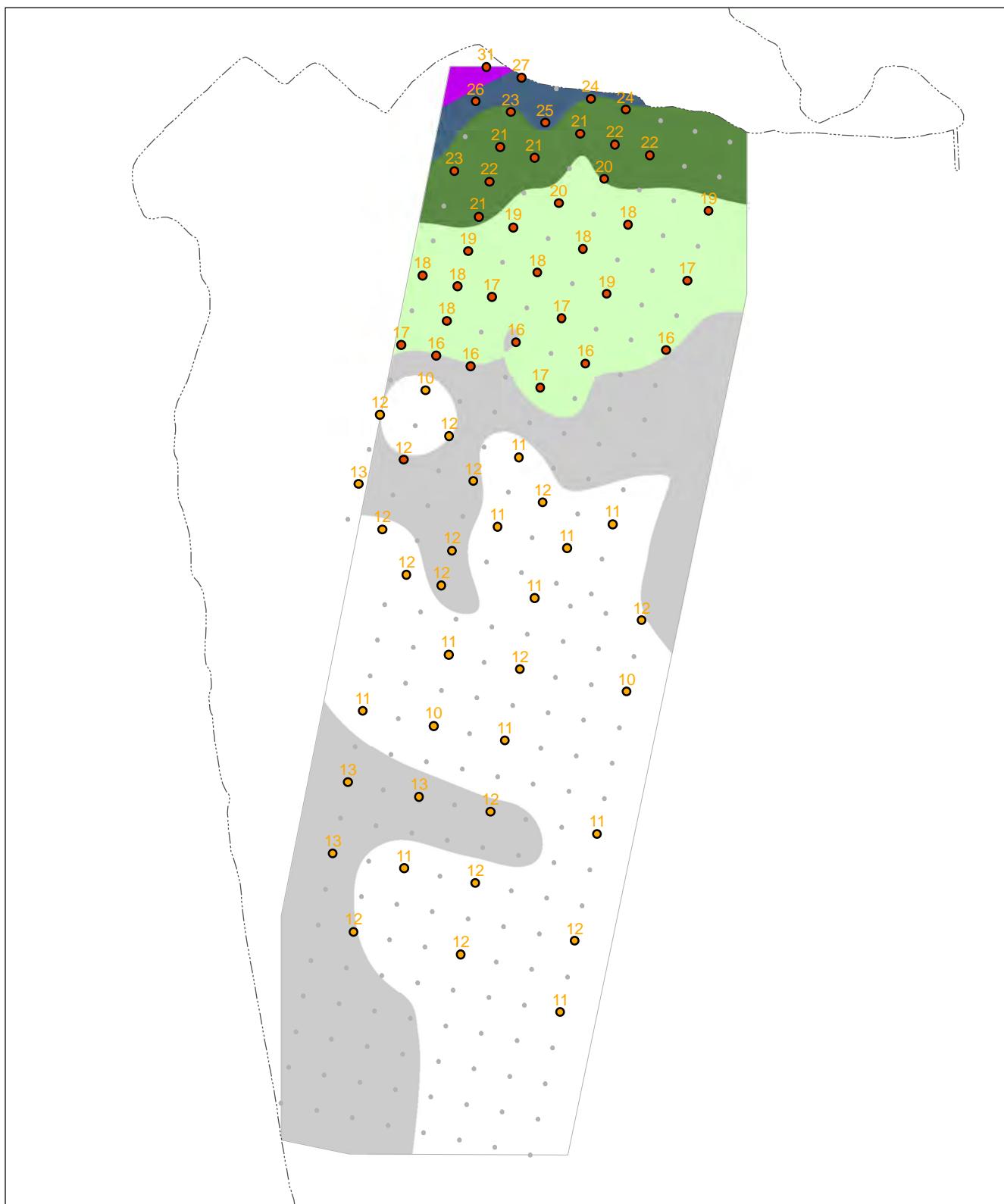
SOURCE: ESA



SOURCE: ESA

Brisbane Baylands . 206069

**Figure 26**  
WNW Wind - TI (%)  
Existing



**Point Grid (250 ft Intervals)**

● 2012 Data      ● 2009 Data      ● No Data

■ 8 - 12      ■ 12 - 16      ■ 16 - 20      ■ 20 - 24      ■ 24 - 28      ■ 28 - 30

0      1,000  
Feet

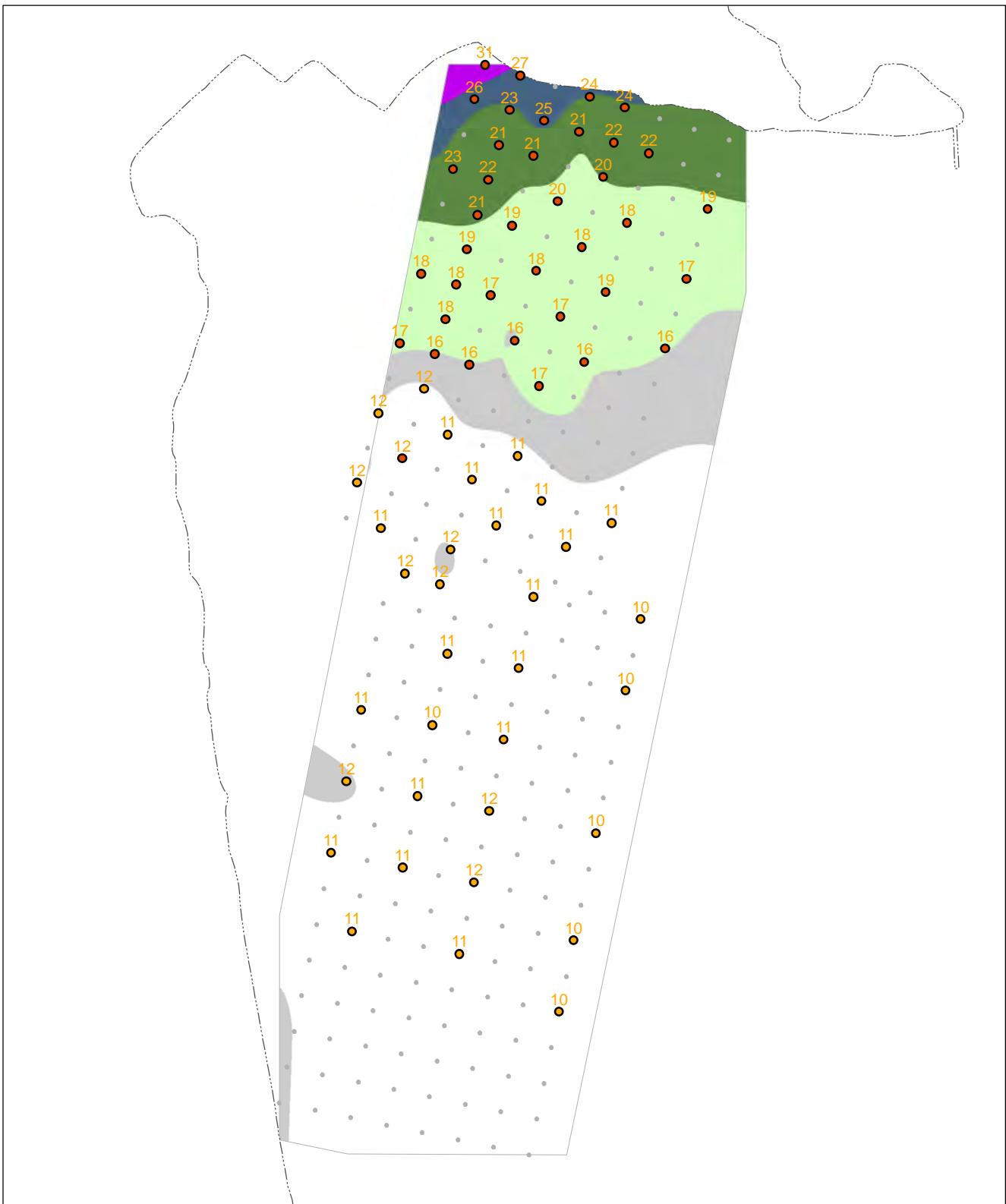


Brisbane Baylands . 206069

**Figure 27**

WNW Wind - TI (%)  
Project

SOURCE: ESA



**Point Grid (250 ft Intervals)**

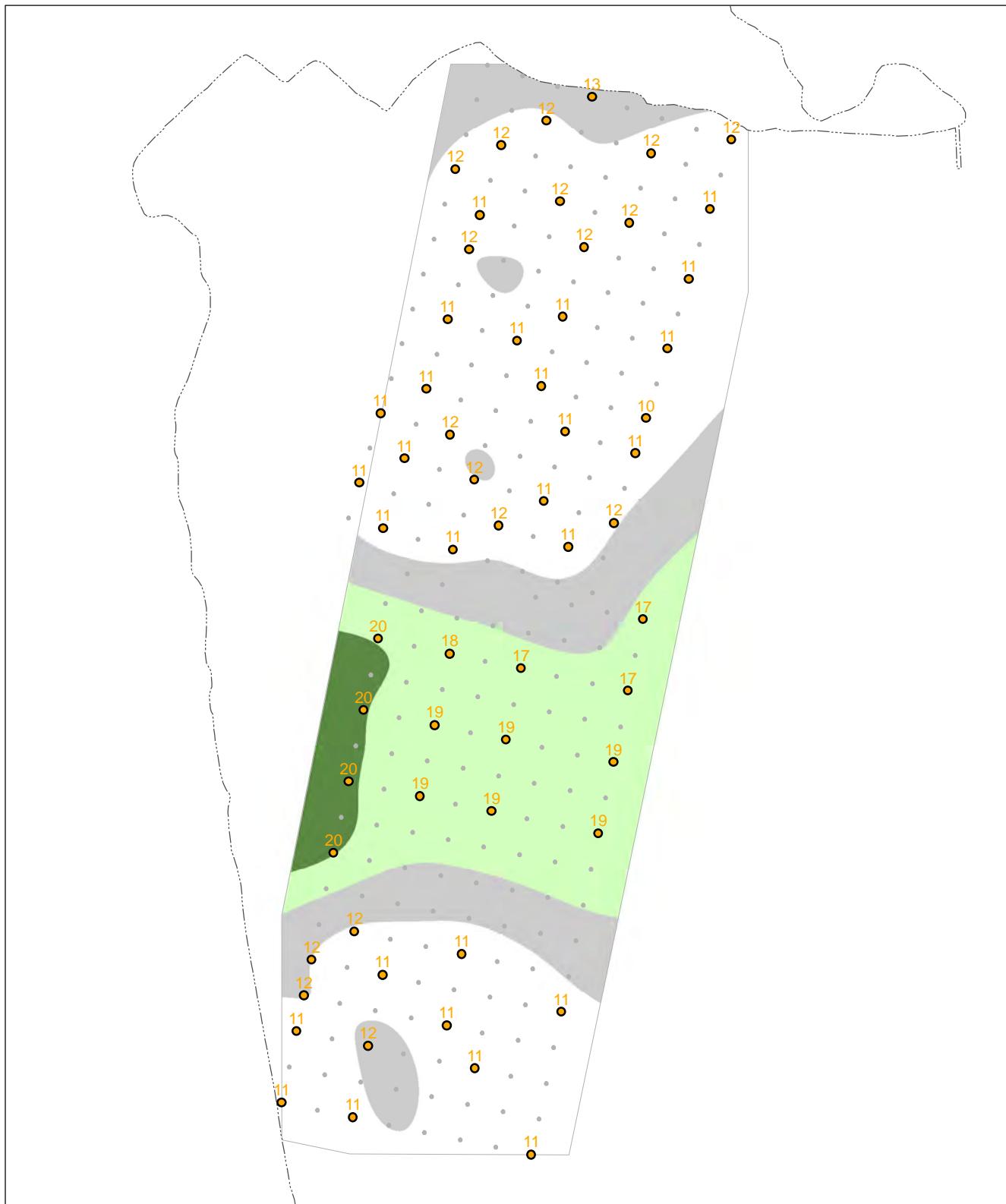
□	8 - 12	■	20 - 24
●	12 - 16	■	24 - 28
●	20 - 24	■	28 - 30
•	No Data		

0 1,000  
Feet ↑

Brisbane Baylands . 206069

**Figure 28**  
WNW Wind - TI (%)  
Community

SOURCE: ESA



**Point Grid (250 ft Intervals)**

□	8 - 12	■	20 - 24
●	12 - 16	■	24 - 28
●	16 - 20	■	28 - 30
•	No Data		

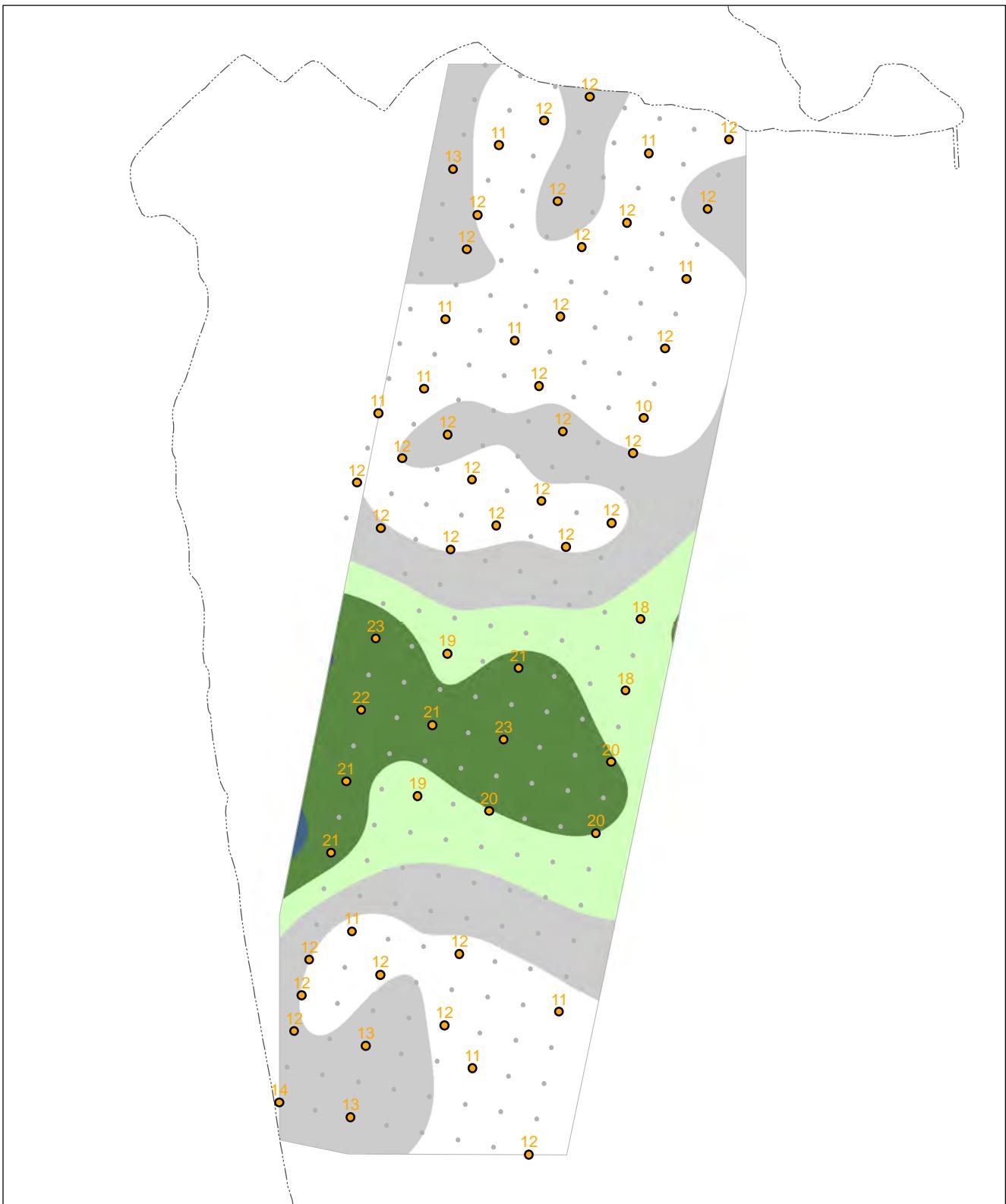
● 2012 Data  
● 2009 Data

0 1,000  
Feet ↑

Brisbane Baylands . 206069

**Figure 29**  
W Wind - TI (%)  
Existing

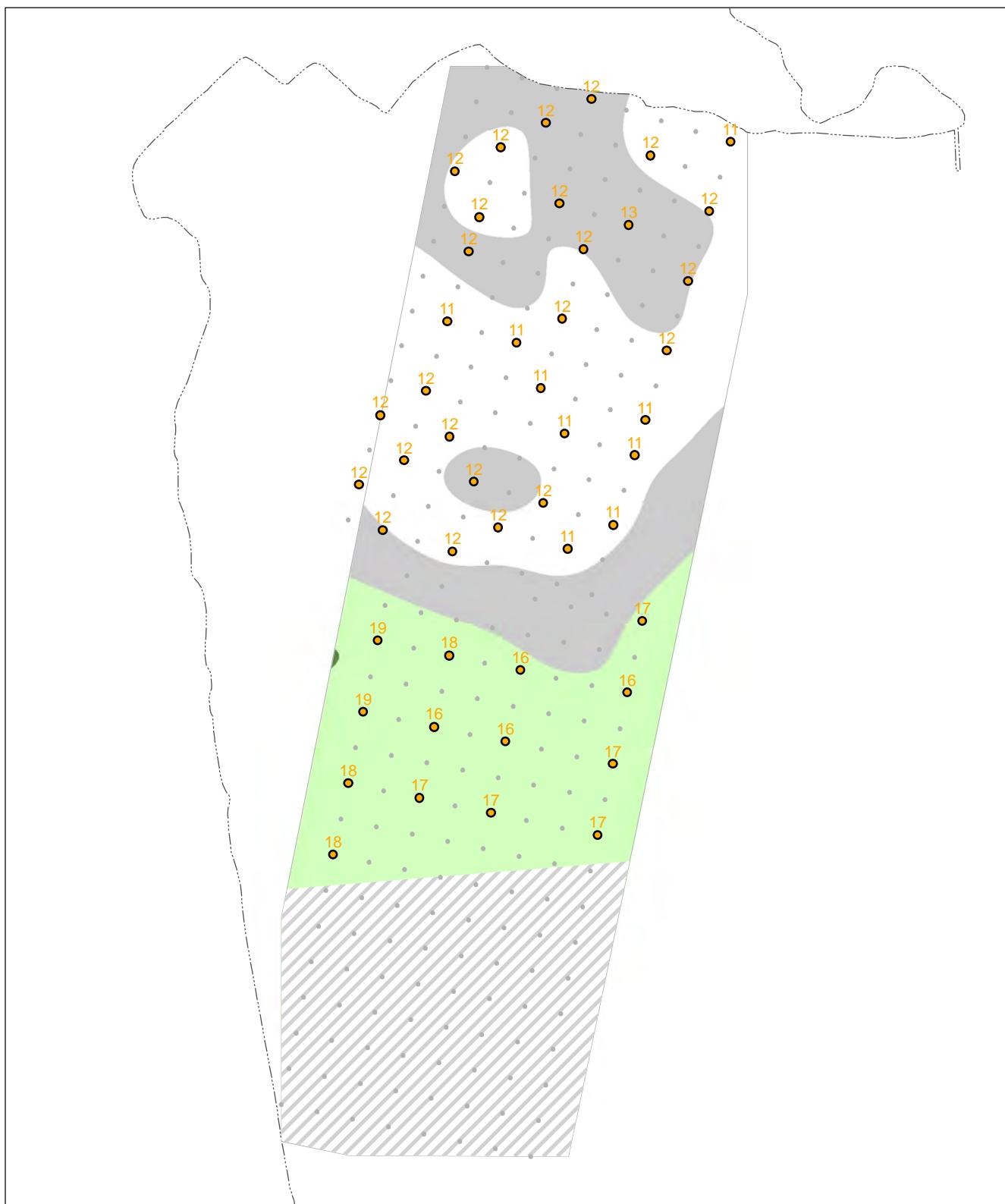
SOURCE: ESA



SOURCE: ESA

Brisbane Baylands . 206069

**Figure 30**  
W Wind - TI (%)  
Project



**Point Grid (250 ft Intervals)**

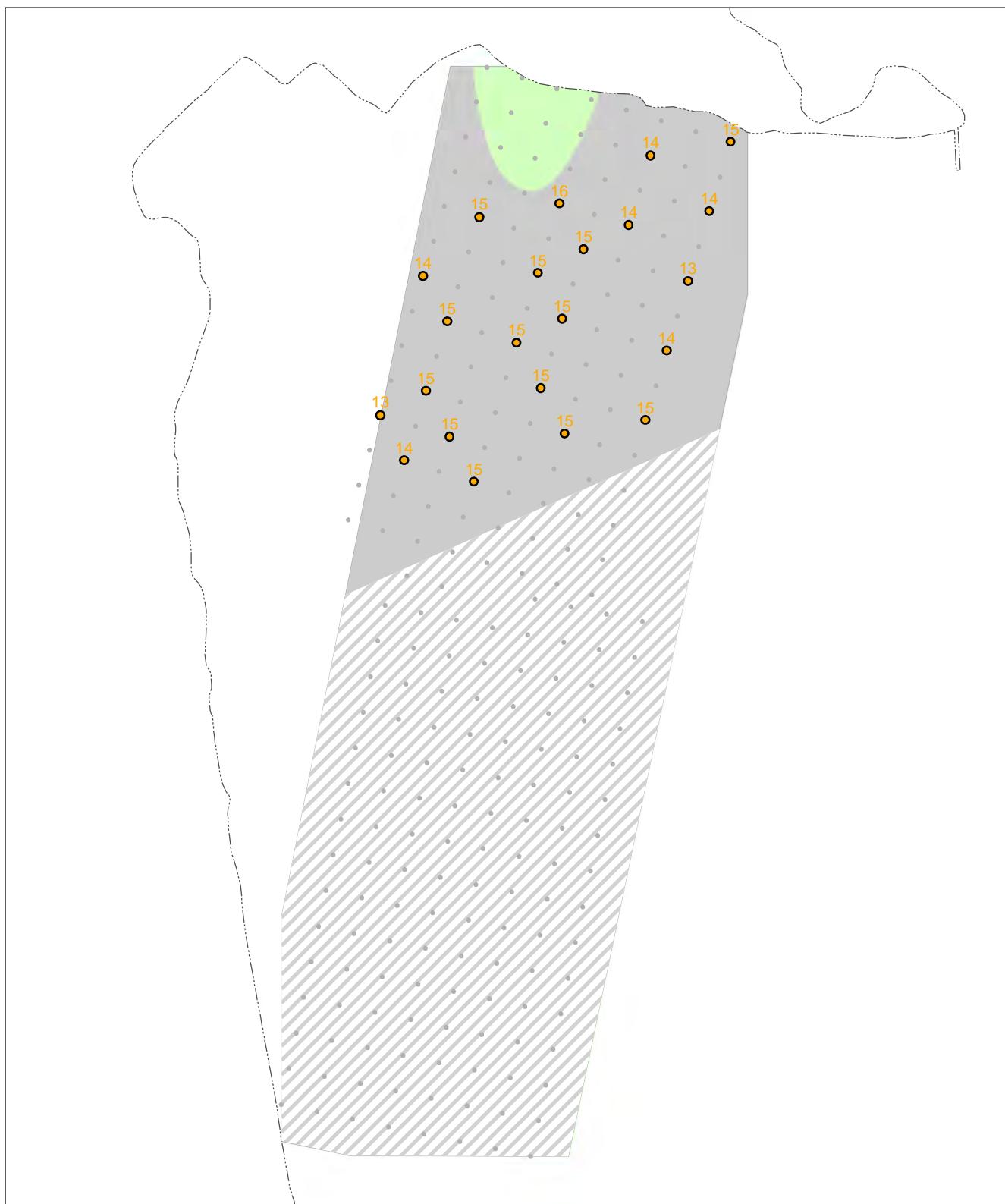
8 - 12	20 - 24
12 - 16	24 - 28
16 - 20	28 - 30
• No Data	No Data

0 1,000  
Feet ↑

Brisbane Baylands . 206069

**Figure 31**  
W Wind - TI (%)  
Community

SOURCE: ESA



SOURCE: ESA

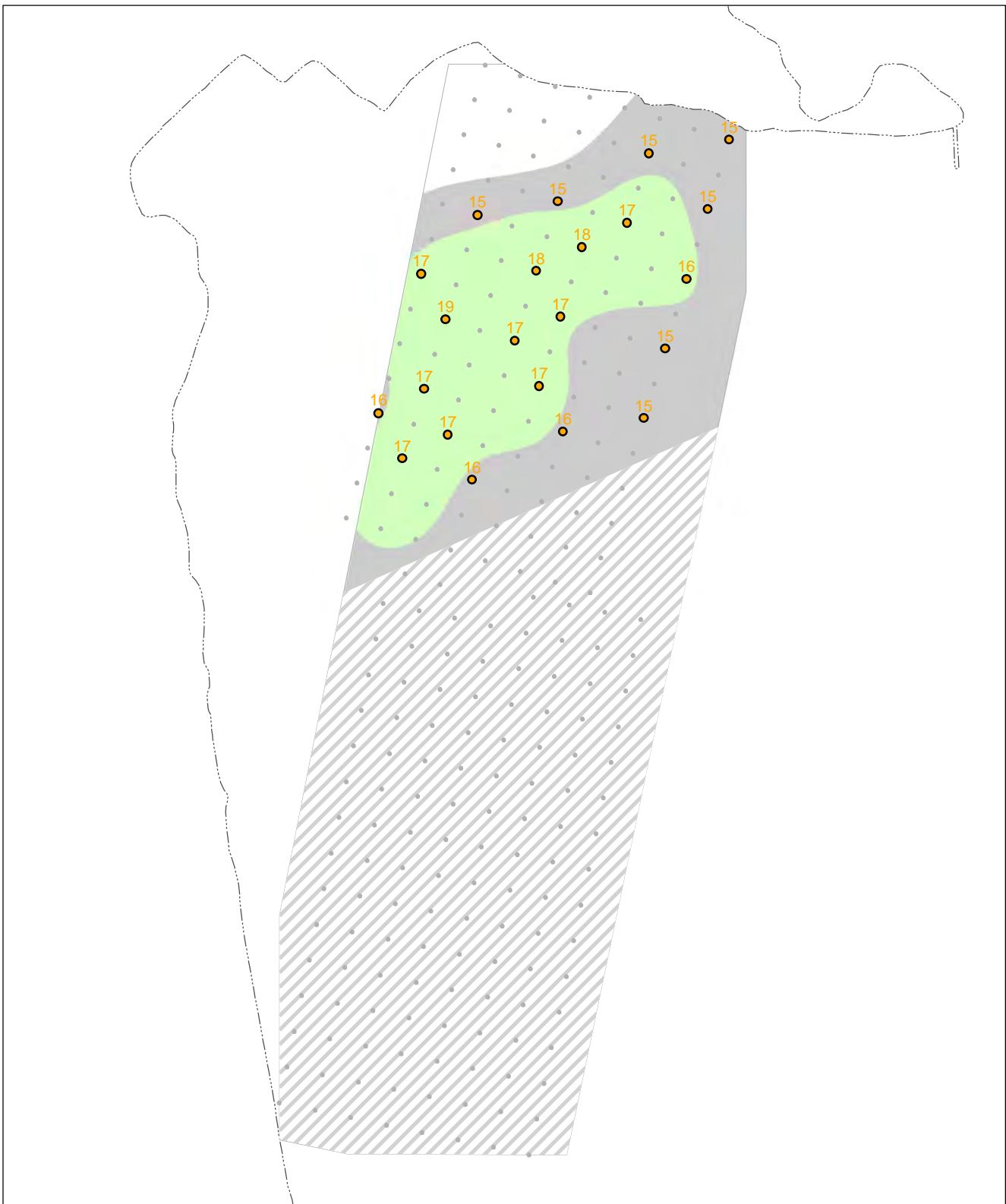
**Point Grid (250 ft Intervals)**

- White square: 8 - 12
- Dark Green square: 20 - 24
- Grey square: 12 - 16
- Dark Blue square: 24 - 28
- Light Green square: 16 - 20
- Purple square: 28 - 30
- Black dot: 2012 Data
- Orange dot: 2009 Data
- Grey dot: No Data

0 1,000  
Feet ↑

Brisbane Baylands . 206069

**Figure 32**  
WSW Wind - TI (%)  
Existing



**Point Grid (250 ft Intervals)**

- White square: 8 - 12
- Dark green square: 20 - 24
- Light gray square: 12 - 16
- Dark blue square: 24 - 28
- Light green square: 16 - 20
- Purple square: 28 - 30
- Gray dot: No Data

**2012 Data**

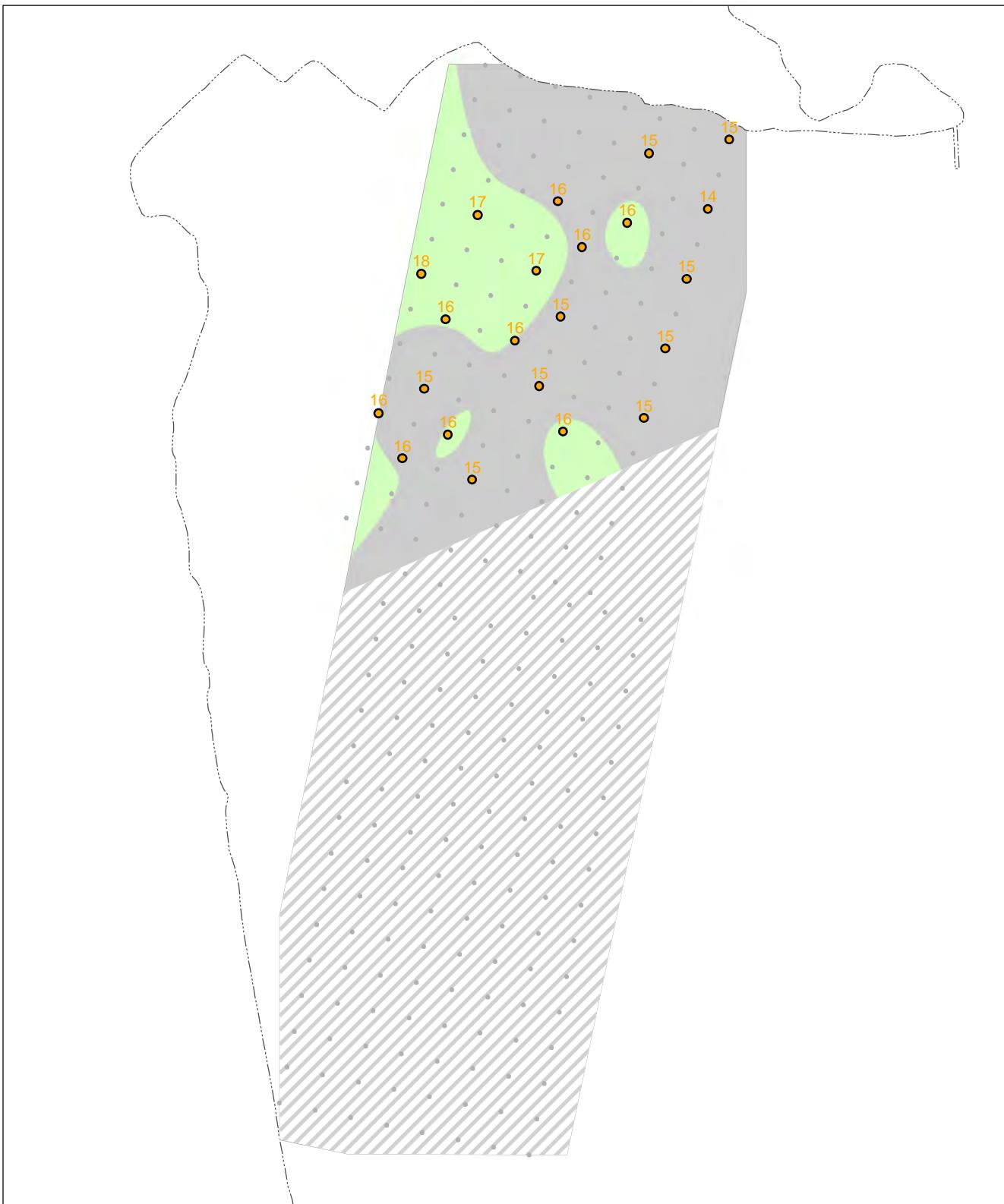
**2009 Data**

**No Data**

0      1,000  
Feet

Brisbane Baylands . 206069  
**Figure 33**  
WSW Wind - TI (%)  
Project

SOURCE: ESA



**Point Grid (250 ft Intervals)**

- White square: 8 - 12
- Dark green square: 20 - 24
- Light gray square: 12 - 16
- Dark blue square: 24 - 28
- Light green square: 16 - 20
- Purple square: 28 - 30
- Gray dot: No Data

**2012 Data**

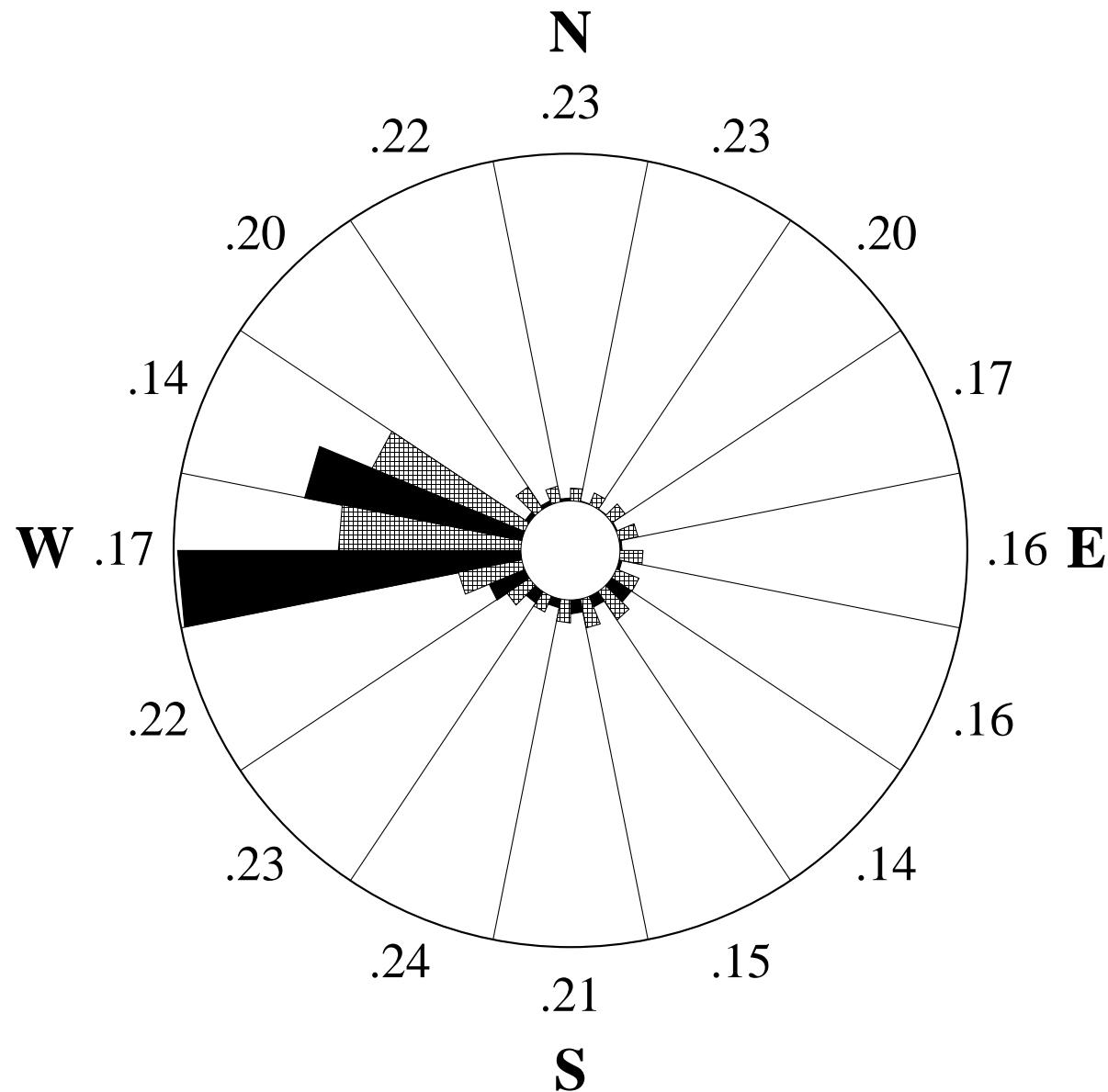
**2009 Data**

**No Data**

SOURCE: ESA

Brisbane Baylands . 206069

**Figure 34**  
WSW Wind - TI (%)  
Community



4/17/2008 to 12/30/2010

**Wind Rose Ch 1, 7**

SITE 7084

New Site

**Site Information:**

Project: New Project

Location:

Elevation: 7

**Anemometer on channel 1:**

NRG #40 North m/s

Height: 59 m

Serial #: SN:57054

**Vane on channel 7:**

#200P Wind Vane

Height: 58 m

Serial #: SN:

Outer Numbers are Average TIs  
for speeds greater than 1.5 m/s

Inner Circle = 0%

Outer Circle = 50%

Percent of Total Wind Energy

Percent of Total Time

SOURCE: V-Bar, LLC

Brisbane Baylands . 206069

**Figure 35**

Brisbane Wind Rose and Chart of  
Relative Frequency of Wind Speed