

### IR BT & Lightning

t: 2005060900 (18.4 LT)

Lightning: 18.4 LT ± 1.5 h (dots)

PT: SLCP | EA: QUASI  
01L (ARLENE) | 30 kt TD  
S: 7.3 m s<sup>-1</sup> (M) | H: 54°

Latitude

22

20

18

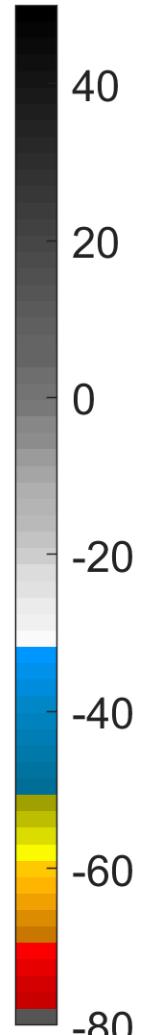
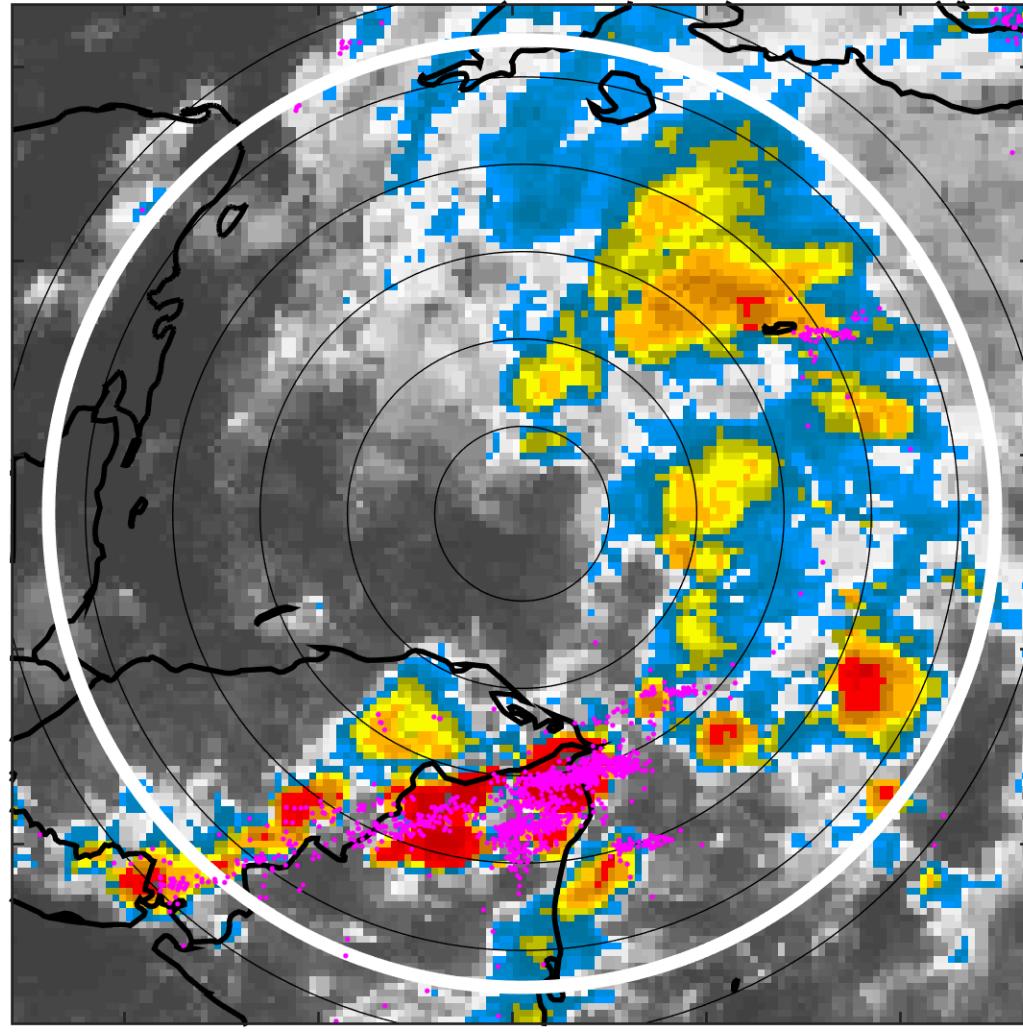
16

14

-88

-86

-84  
Longitude



### 6-h IR BT Differences & Lightning

Δt: 2005060900 (18.4 LT) - 2005060818 (12.4 LT)

Lightning: 18.4 LT ± 1.5 h (dots)

PT: SLCP | EA: QUASI  
01L (ARLENE) | 30 kt TD  
S: 7.3 m s<sup>-1</sup> (M) | H: 54°

Latitude

22

20

18

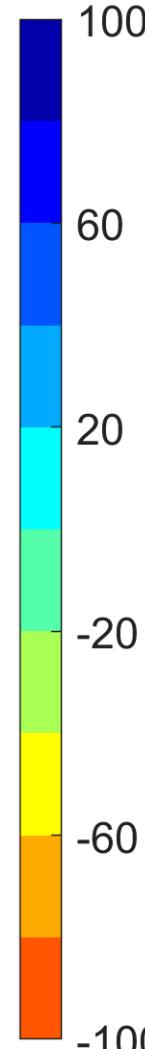
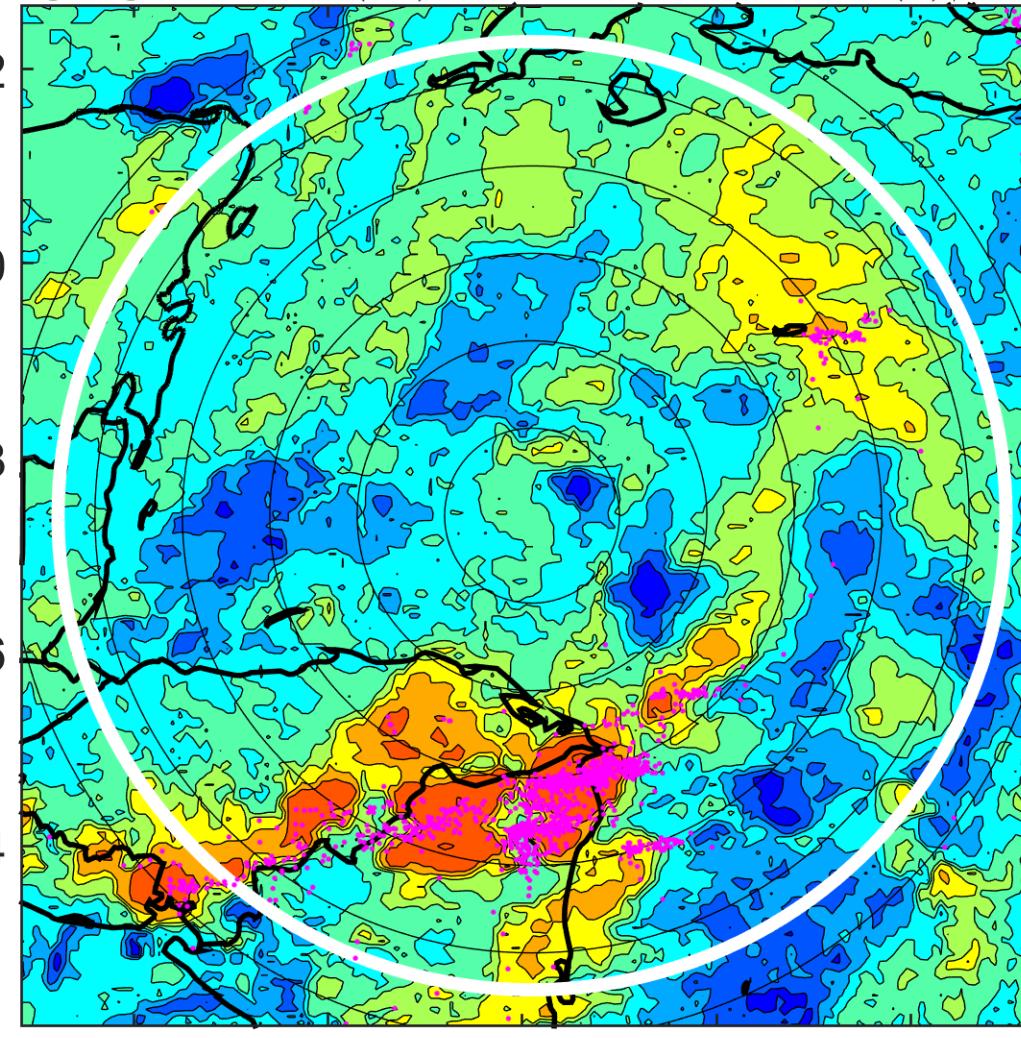
16

14

-88

-86

-84  
Longitude



### IR BT & Lightning

t: 2005060903 (21.4 LT)

Lightning: 21.4 LT ± 1.5 h (dots)

PT: SLCP | EA: QUASI  
01L (ARLENE) | 32.5 kt TD  
S:  $8.3 \text{ m s}^{-1}$  (M) | H:  $43.5^\circ$

Latitude

22

20

18

16

14

-88

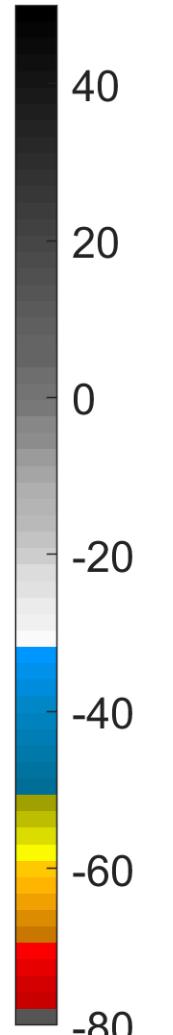
-86

-84

-82

-80

Longitude



### 6-h IR BT Differences & Lightning

Δt: 2005060903 (21.4 LT) - 2005060821 (15.4 LT)

Lightning: 21.4 LT ± 1.5 h (dots)

PT: SLCP | EA: QUASI  
01L (ARLENE) | 32.5 kt TD  
S:  $8.3 \text{ m s}^{-1}$  (M) | H:  $43.5^\circ$

Latitude

22

20

18

16

14

-88

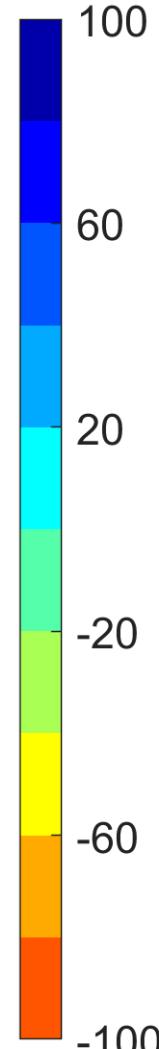
-86

-84

-82

-80

Longitude



### IR BT & Lightning

t: 2005060906 (0.4 LT)

Lightning: 0.4 LT ± 1.5 h (dots)

PT: LLCP | EA: INACT

01L (ARLENE) | 35 kt TS

S: 9.3 m s<sup>-1</sup> (M) | H: 33°

Latitude

22

20

18

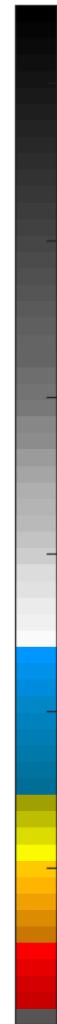
16

14

-88

-86

-84  
Longitude



### 6-h IR BT Differences & Lightning

Δt: 2005060906 (0.4 LT) - 2005060900 (18.4 LT)

Lightning: 0.4 LT ± 1.5 h (dots)

PT: LLCP | EA: INACT

01L (ARLENE) | 35 kt TS

S: 9.3 m s<sup>-1</sup> (M) | H: 33°

Latitude

22

20

18

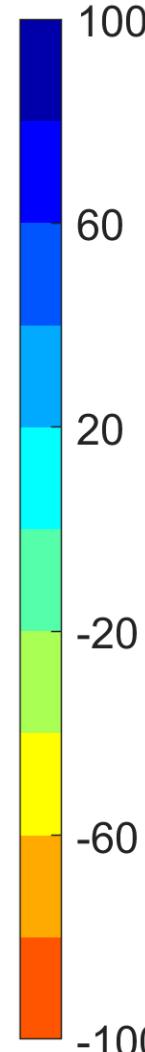
16

14

-88

-86

-84  
Longitude



### IR BT & Lightning

t: 2005060909 (3.4 LT)

Lightning: 3.4 LT  $\pm$  1.5 h (dots)

PT: LLCP | EA: INACT

01L (ARLENE) | 35 kt TS

S: 9.7 m s<sup>-1</sup> (M) | H: 38.5°

Latitude

22

20

18

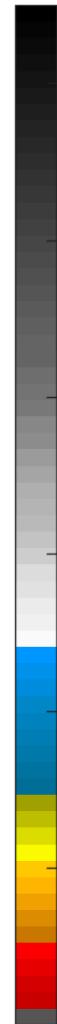
16

14

-88

-86

-84  
Longitude



40  
20  
0  
-20  
-40  
-60  
-80

### 6-h IR BT Differences & Lightning

$\Delta t$ : 2005060909 (3.4 LT) - 2005060903 (21.4 LT)

Lightning: 3.4 LT  $\pm$  1.5 h (dots)

PT: LLCP | EA: INACT

01L (ARLENE) | 35 kt TS

S: 9.7 m s<sup>-1</sup> (M) | H: 38.5°

Latitude

22

20

18

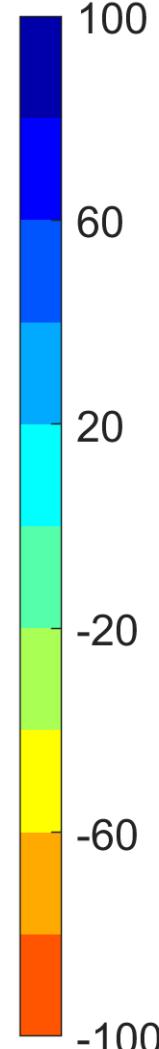
16

14

-88

-86

-84  
Longitude



### IR BT & Lightning

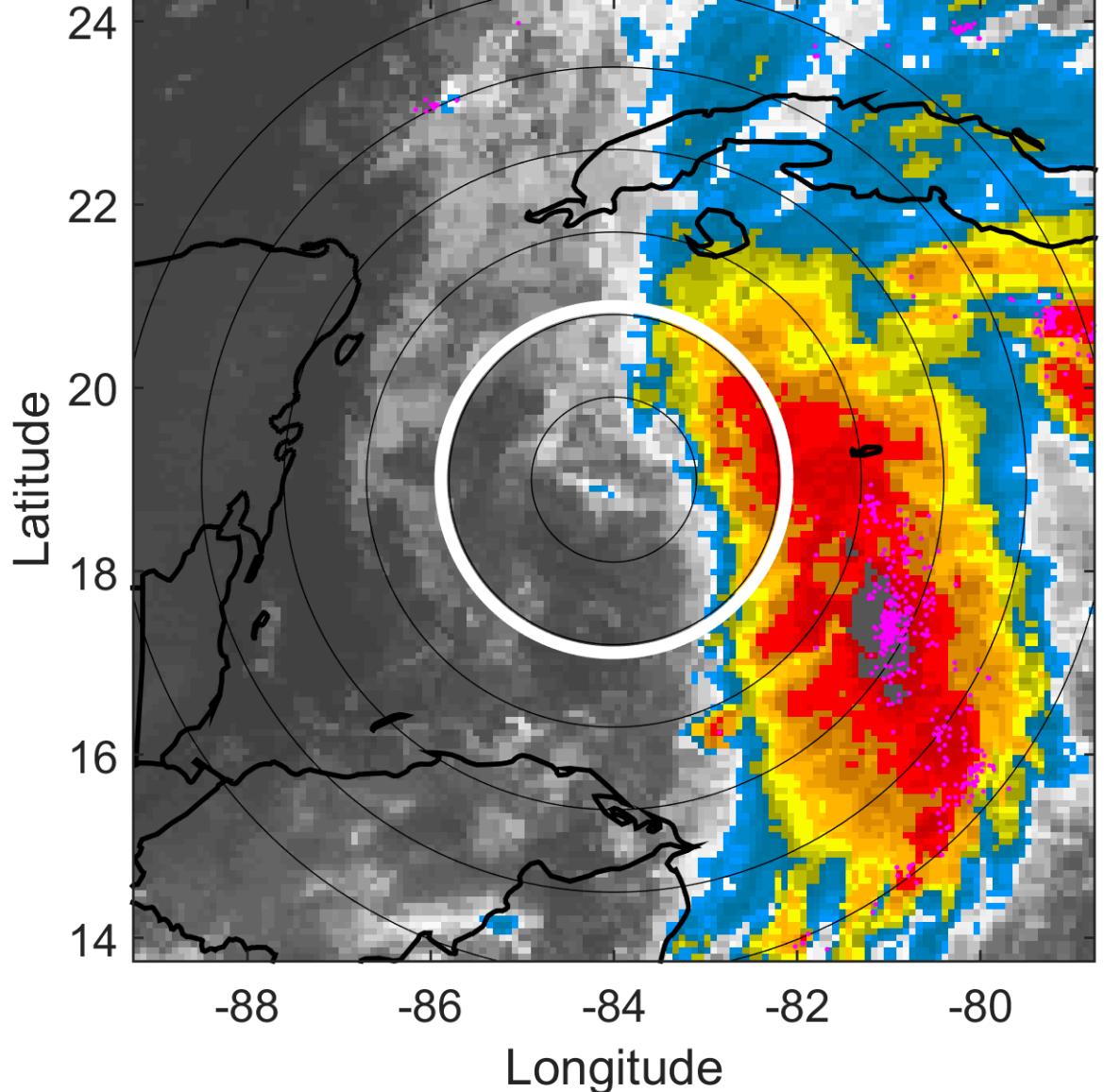
t: 2005060912 (6.4 LT)

Lightning: 6.4 LT  $\pm$  1.5 h (dots)

PT: LLCP | EA: INACT

01L (ARLENE) | 35 kt TS

S: 10.1 m s<sup>-1</sup> (M) | H: 44°



### 6-h IR BT Differences & Lightning

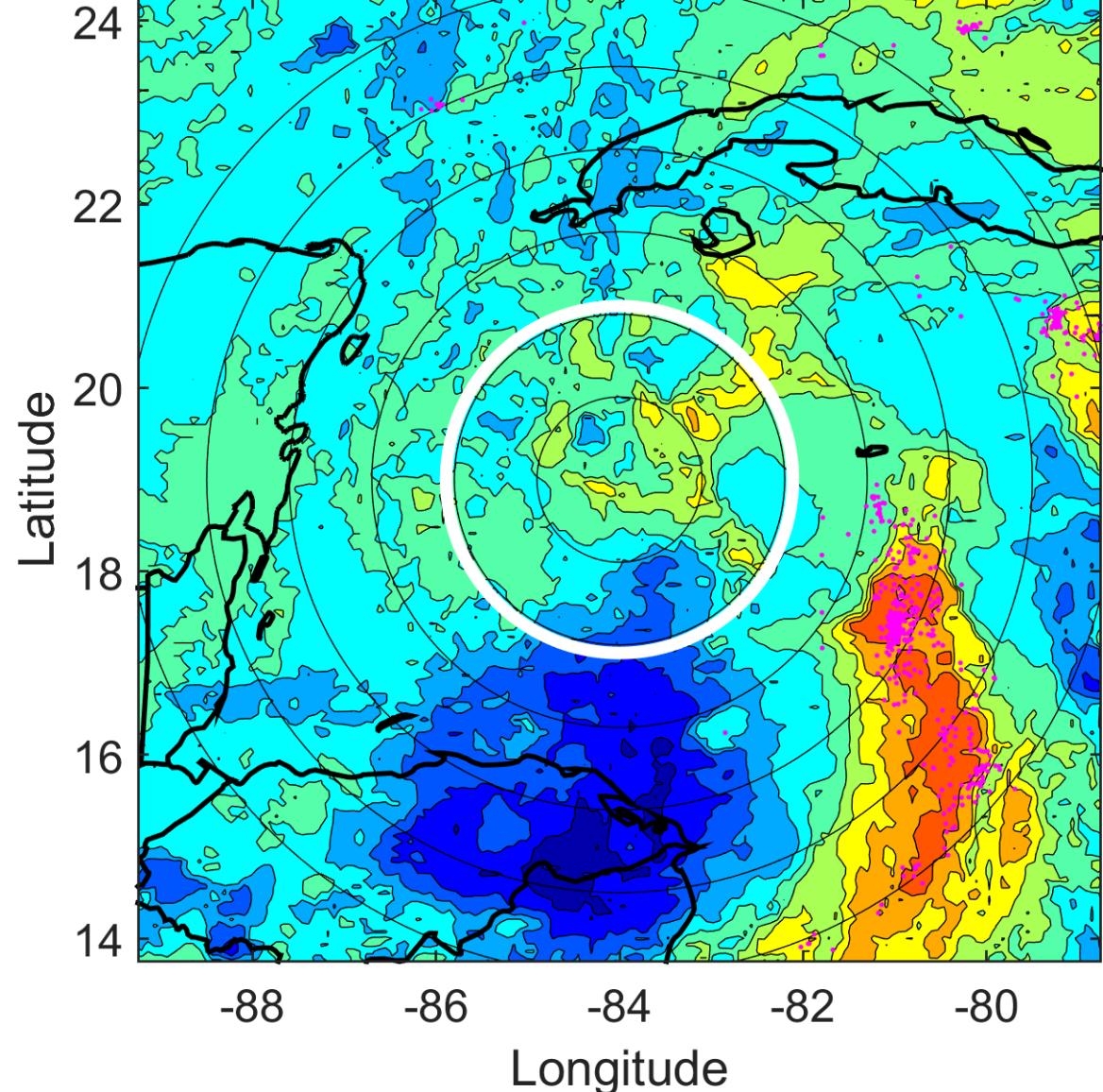
$\Delta t$ : 2005060912 (6.4 LT) - 2005060906 (0.4 LT)

Lightning: 6.4 LT  $\pm$  1.5 h (dots)

PT: LLCP | EA: INACT

01L (ARLENE) | 35 kt TS

S: 10.1 m s<sup>-1</sup> (M) | H: 44°



### IR BT & Lightning

t: 2005060915 (9.4 LT)

Lightning: 9.4 LT  $\pm$  1.5 h (dots)

PT: LLCP | EA: INACT

01L (ARLENE) | 35 kt TS

S: 9.1 m s<sup>-1</sup> (M) | H: 44°

Latitude

24

22

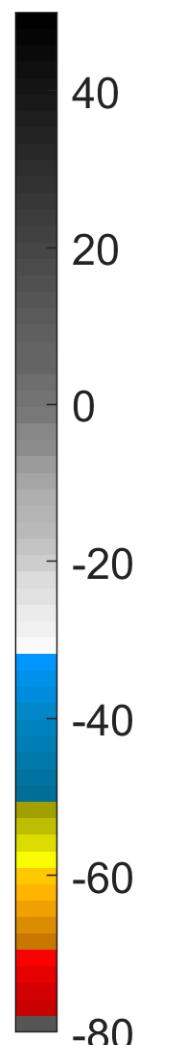
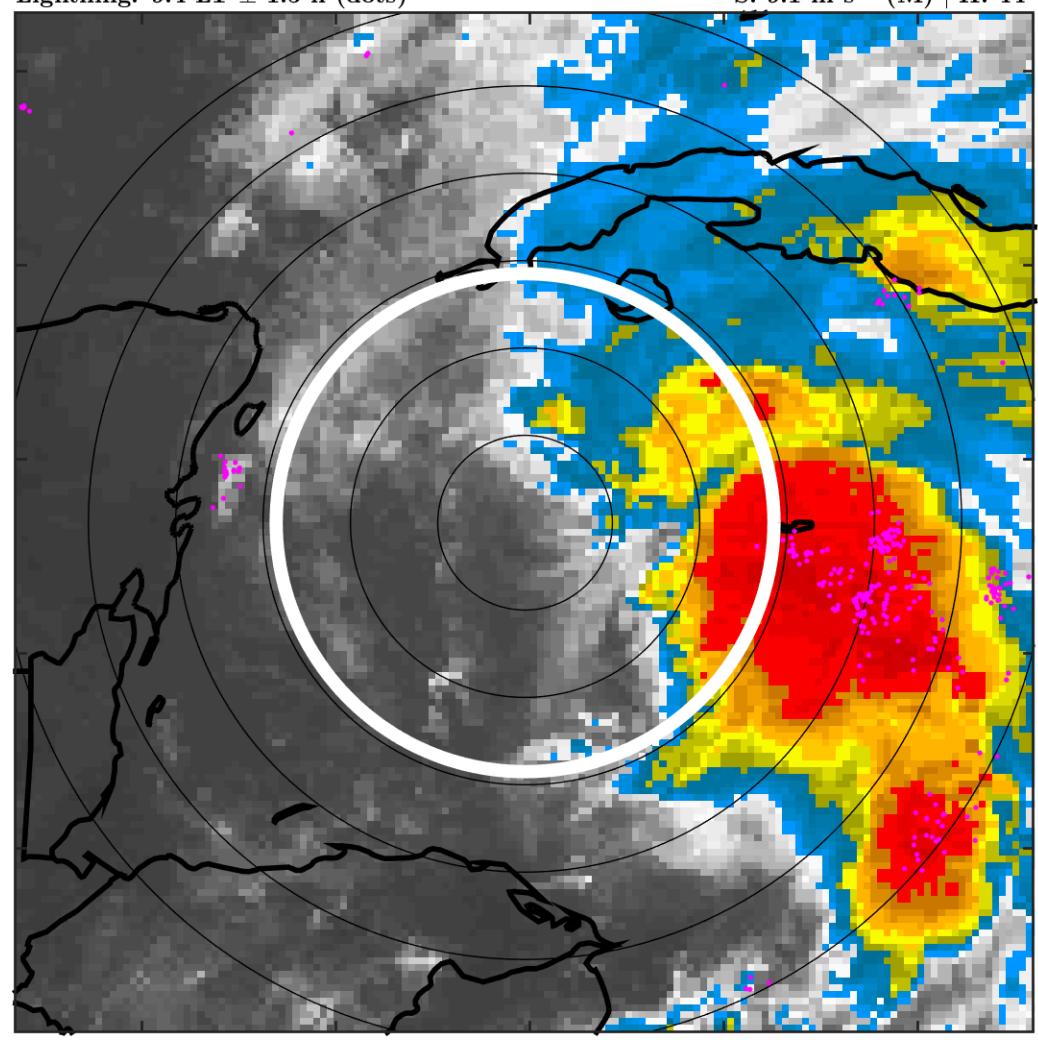
20

18

16

14

Longitude



### 6-h IR BT Differences & Lightning

$\Delta t$ : 2005060915 (9.4 LT) - 2005060909 (3.4 LT)

Lightning: 9.4 LT  $\pm$  1.5 h (dots)

PT: LLCP | EA: INACT

01L (ARLENE) | 35 kt TS

S: 9.1 m s<sup>-1</sup> (M) | H: 44°

Latitude

24

22

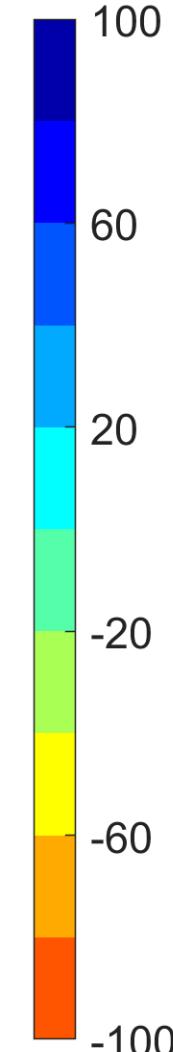
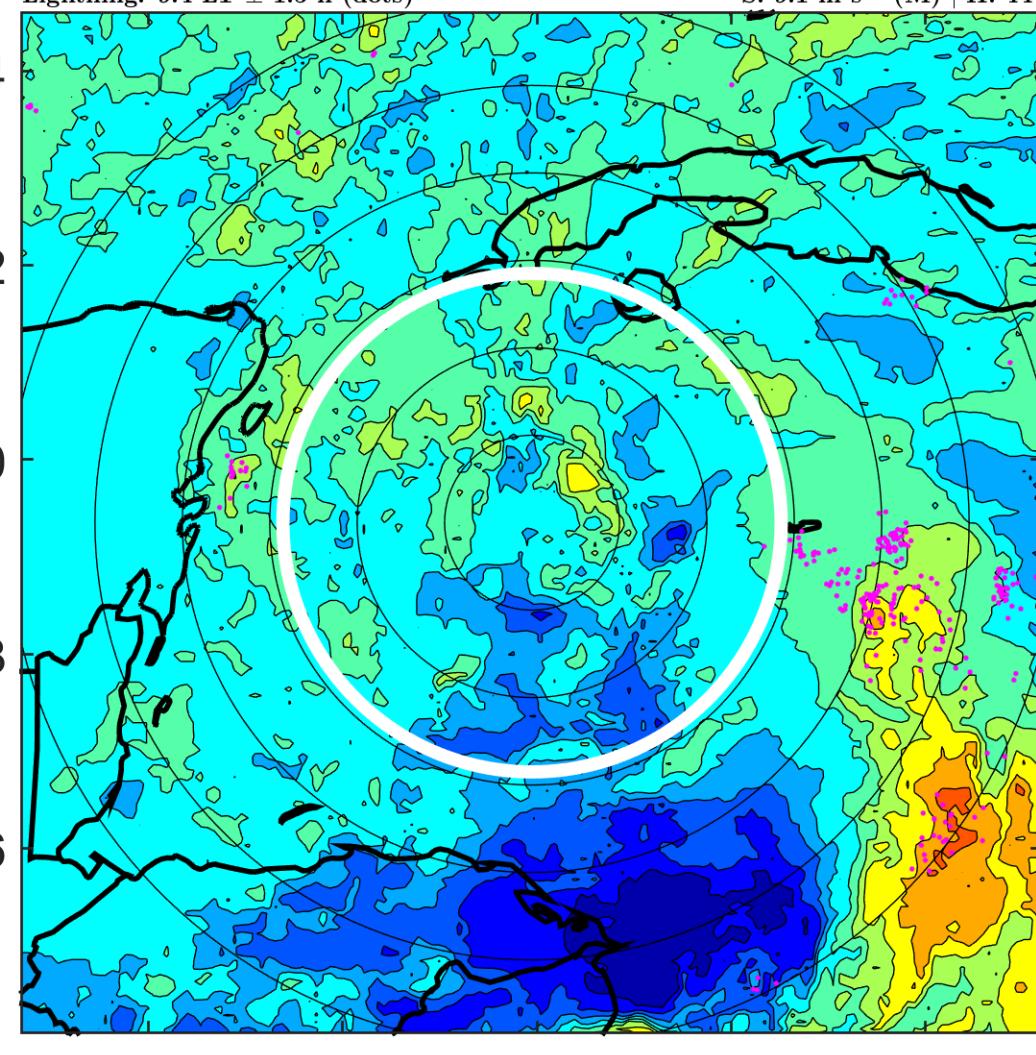
20

18

16

14

Longitude



### IR BT & Lightning

t: 2005060918 (12.4 LT)

Lightning: 12.4 LT ± 1.5 h (dots)

PT: LLCP | EA: INACT

01L (ARLENE) | 35 kt TS

S: 8 m s<sup>-1</sup> (M) | H: 44°

Latitude

24

22

20

18

16

-88

-86

-84  
Longitude



40  
20  
0  
-20  
-40  
-60  
-80

### 6-h IR BT Differences & Lightning

Δt: 2005060918 (12.4 LT) - 2005060912 (6.4 LT)

Lightning: 12.4 LT ± 1.5 h (dots)

PT: LLCP | EA: INACT

01L (ARLENE) | 35 kt TS

S: 8 m s<sup>-1</sup> (M) | H: 44°

Latitude

24

22

20

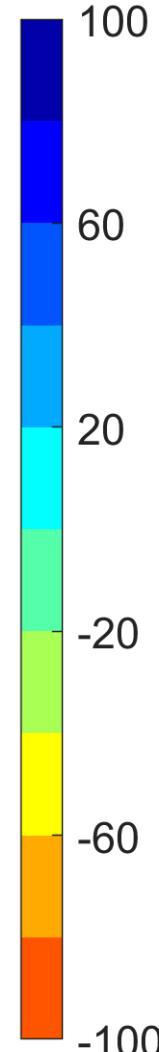
18

16

-88

-86

-84  
Longitude



### IR BT & Lightning

t: 2005060921 (15.4 LT)

Lightning: 15.4 LT ± 1.5 h (dots)

PT: LLCP | EA: INACT

01L (ARLENE) | 37.5 kt TS

S: 8.8 m s<sup>-1</sup> (M) | H: 44°

Latitude

24

22

20

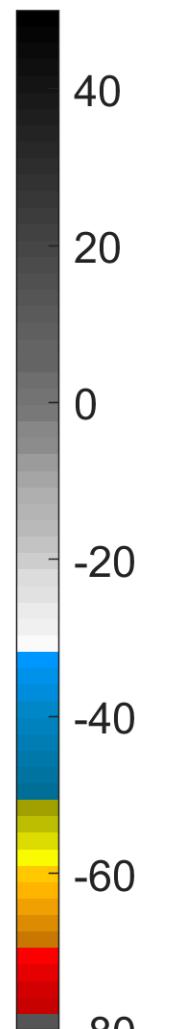
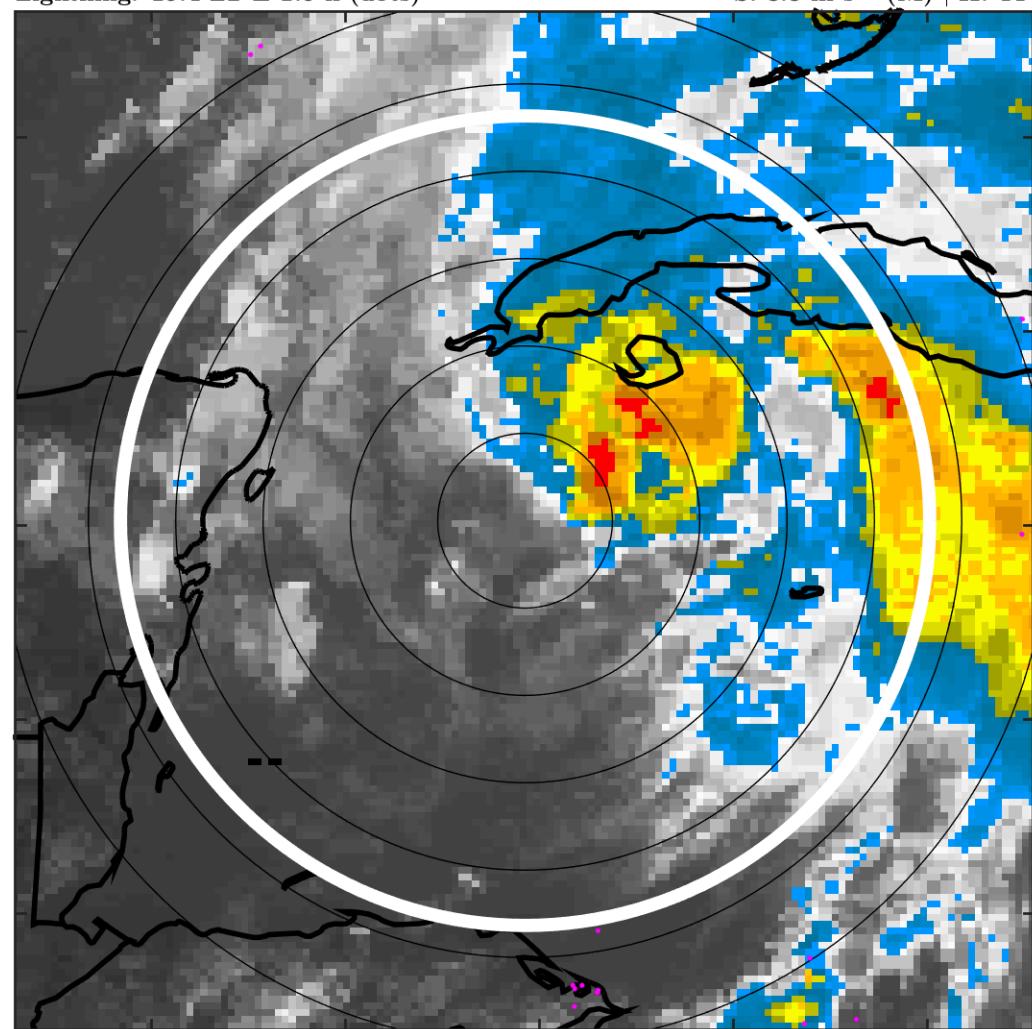
18

16

-88

-86

-84  
Longitude



### 6-h IR BT Differences & Lightning

Δt: 2005060921 (15.4 LT) - 2005060915 (9.4 LT)

Lightning: 15.4 LT ± 1.5 h (dots)

PT: LLCP | EA: INACT

01L (ARLENE) | 37.5 kt TS

S: 8.8 m s<sup>-1</sup> (M) | H: 44°

Latitude

24

22

20

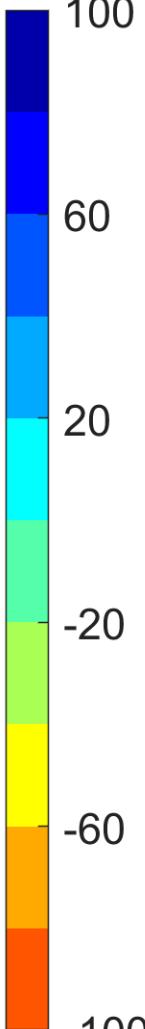
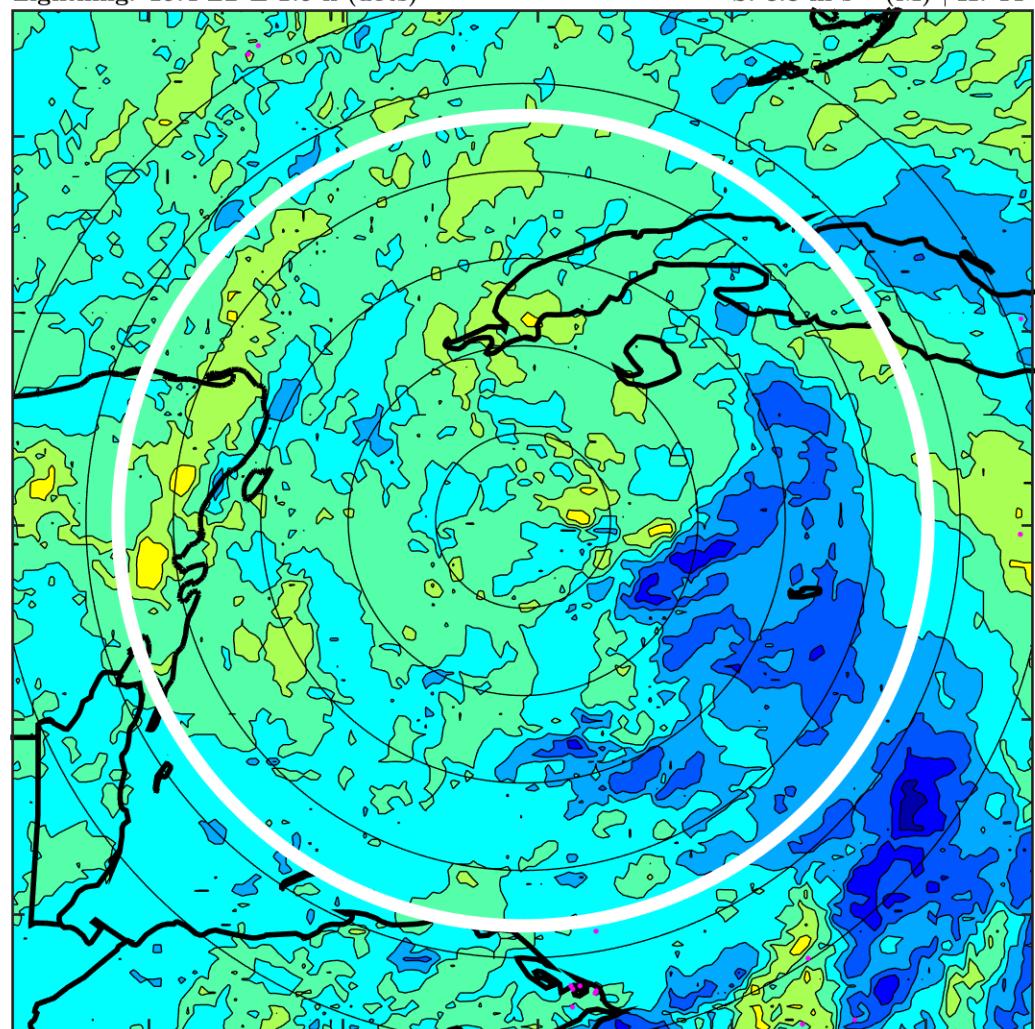
18

16

-88

-86

-84  
Longitude



### IR BT & Lightning

t: 2005061000 (18.4 LT)

Lightning: 18.4 LT ± 1.5 h (dots)

PT: LLCP | EA: INACT

01L (ARLENE) | 40 kt TS

S: 9.7 m s<sup>-1</sup> (M) | H: 44°

Latitude

24

22

20

18

16

-88

-86

-84  
Longitude



40

20

0

-20

-40

-60

-80

### 6-h IR BT Differences & Lightning

Δt: 2005061000 (18.4 LT) - 2005060918 (12.4 LT)

Lightning: 18.4 LT ± 1.5 h (dots)

PT: LLCP | EA: INACT

01L (ARLENE) | 40 kt TS

S: 9.7 m s<sup>-1</sup> (M) | H: 44°

Latitude

24

22

20

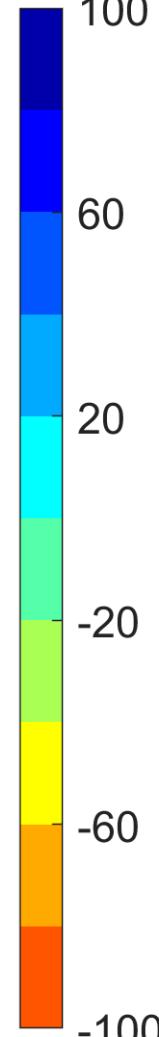
18

16

-88

-86

-84  
Longitude



### IR BT & Lightning

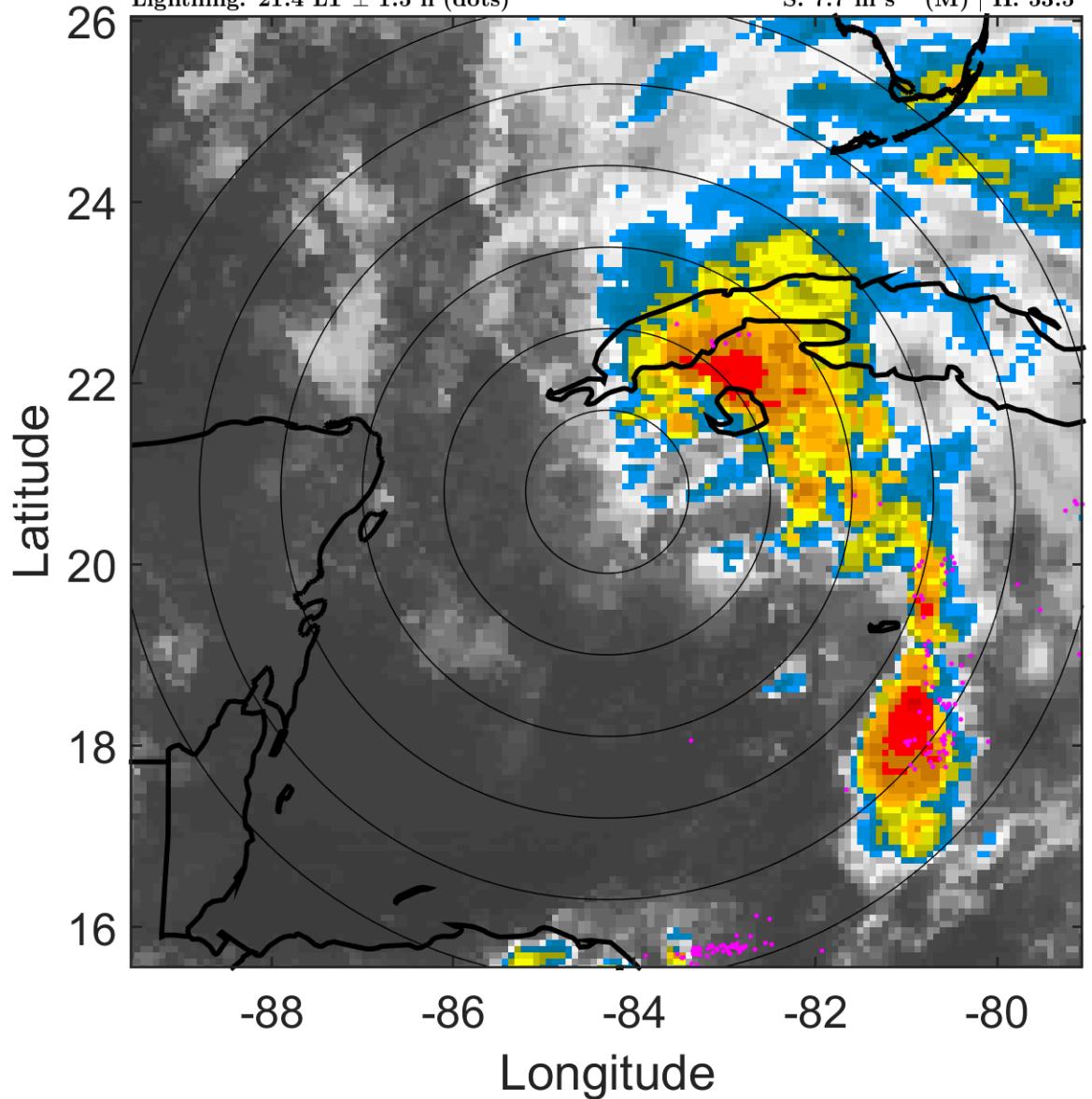
t: 2005061003 (21.4 LT)

Lightning: 21.4 LT ± 1.5 h (dots)

PT: LLCP | EA: INACT

01L (ARLENE) | 42.5 kt TS

S: 7.7 m s<sup>-1</sup> (M) | H: 53.5°



### 6-h IR BT Differences & Lightning

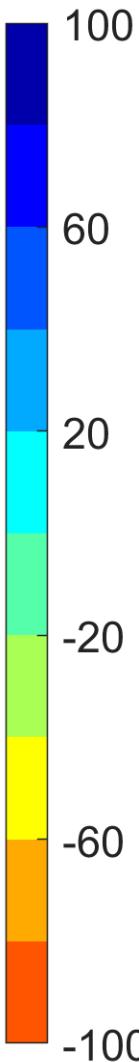
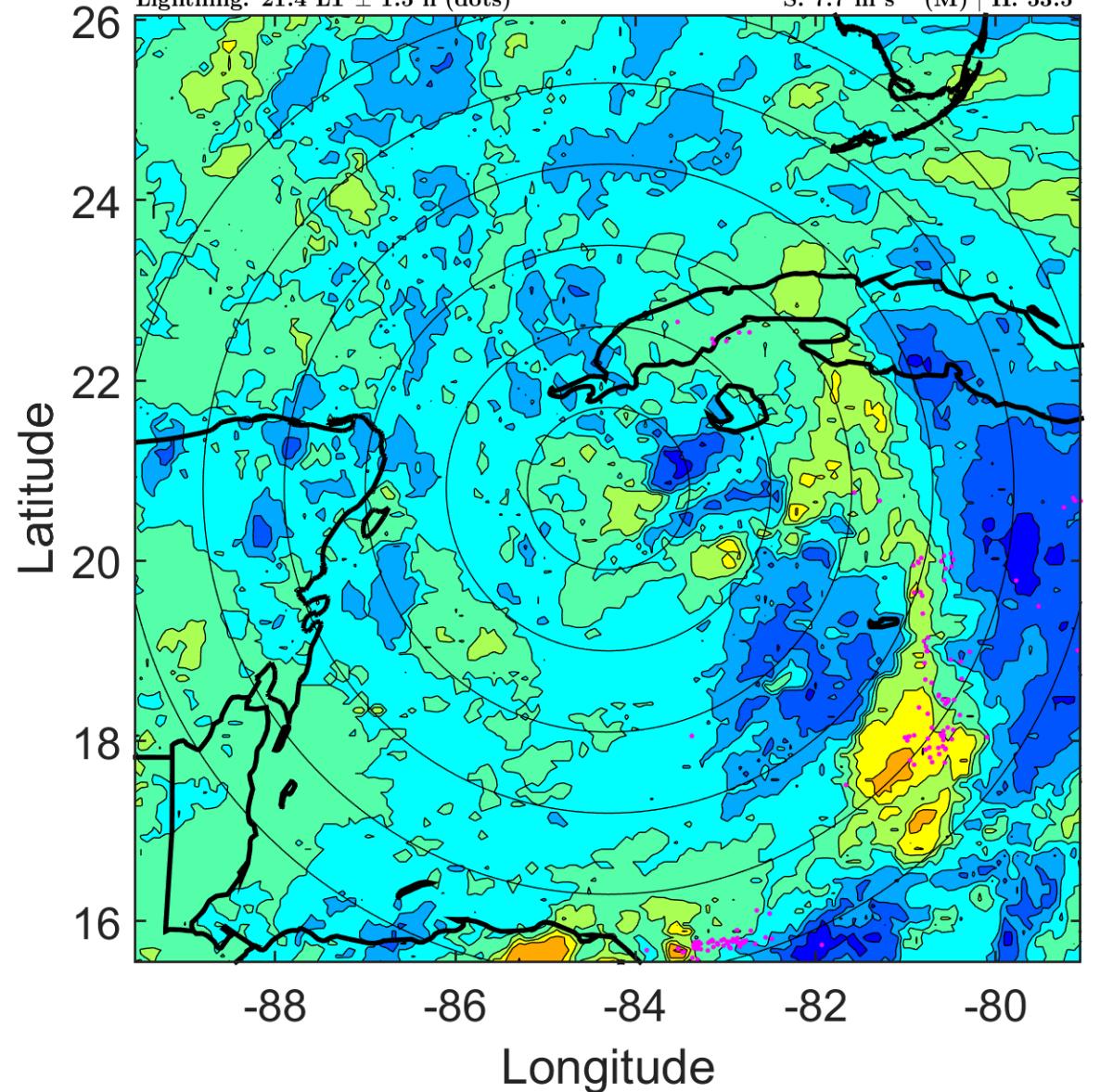
Δt: 2005061003 (21.4 LT) - 2005060921 (15.4 LT)

Lightning: 21.4 LT ± 1.5 h (dots)

PT: LLCP | EA: INACT

01L (ARLENE) | 42.5 kt TS

S: 7.7 m s<sup>-1</sup> (M) | H: 53.5°



### IR BT & Lightning

t: 2005061006 (0.4 LT)

Lightning: 0.4 LT ± 1.5 h (dots)

PT: LLCP | EA: QUASI

01L (ARLENE) | 45 kt TS

S:  $5.8 \text{ m s}^{-1}$  (M) | H:  $63^\circ$

Latitude

26

24

22

20

18

16

-88

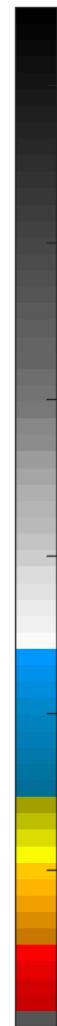
-86

-84

-82

-80

Longitude



### 6-h IR BT Differences & Lightning

Δt: 2005061006 (0.4 LT) - 2005061000 (18.4 LT)

Lightning: 0.4 LT ± 1.5 h (dots)

PT: LLCP | EA: QUASI

01L (ARLENE) | 45 kt TS

S:  $5.8 \text{ m s}^{-1}$  (M) | H:  $63^\circ$

Latitude

26

24

22

20

18

16

-88

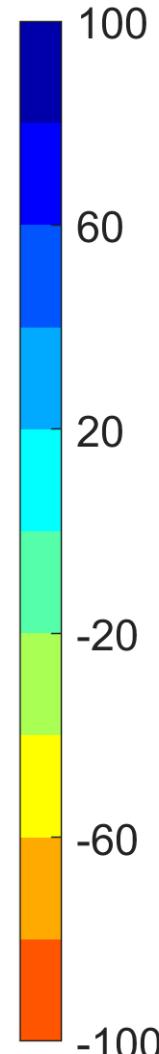
-86

-84

-82

-80

Longitude



### IR BT & Lightning

t: 2005061009 (3.4 LT)

Lightning: 3.4 LT  $\pm$  1.5 h (dots)

PT: LLCP | EA: QUASI  
01L (ARLENE) | 47.5 kt TS  
S: 7.6 m s<sup>-1</sup> (M) | H: 59.5°

Latitude

26

24

22

20

18

-88

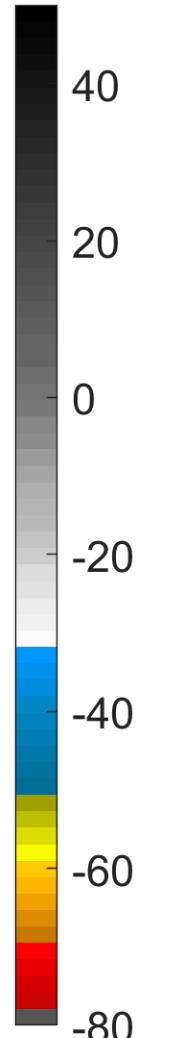
-86

-84

-82

-80

Longitude



### 6-h IR BT Differences & Lightning

$\Delta t$ : 2005061009 (3.4 LT) - 2005061003 (21.4 LT)

Lightning: 3.4 LT  $\pm$  1.5 h (dots)

PT: LLCP | EA: QUASI  
01L (ARLENE) | 47.5 kt TS  
S: 7.6 m s<sup>-1</sup> (M) | H: 59.5°

Latitude

26

24

22

20

18

-88

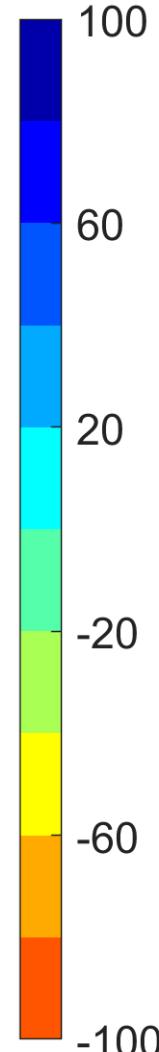
-86

-84

-82

-80

Longitude



### IR BT & Lightning

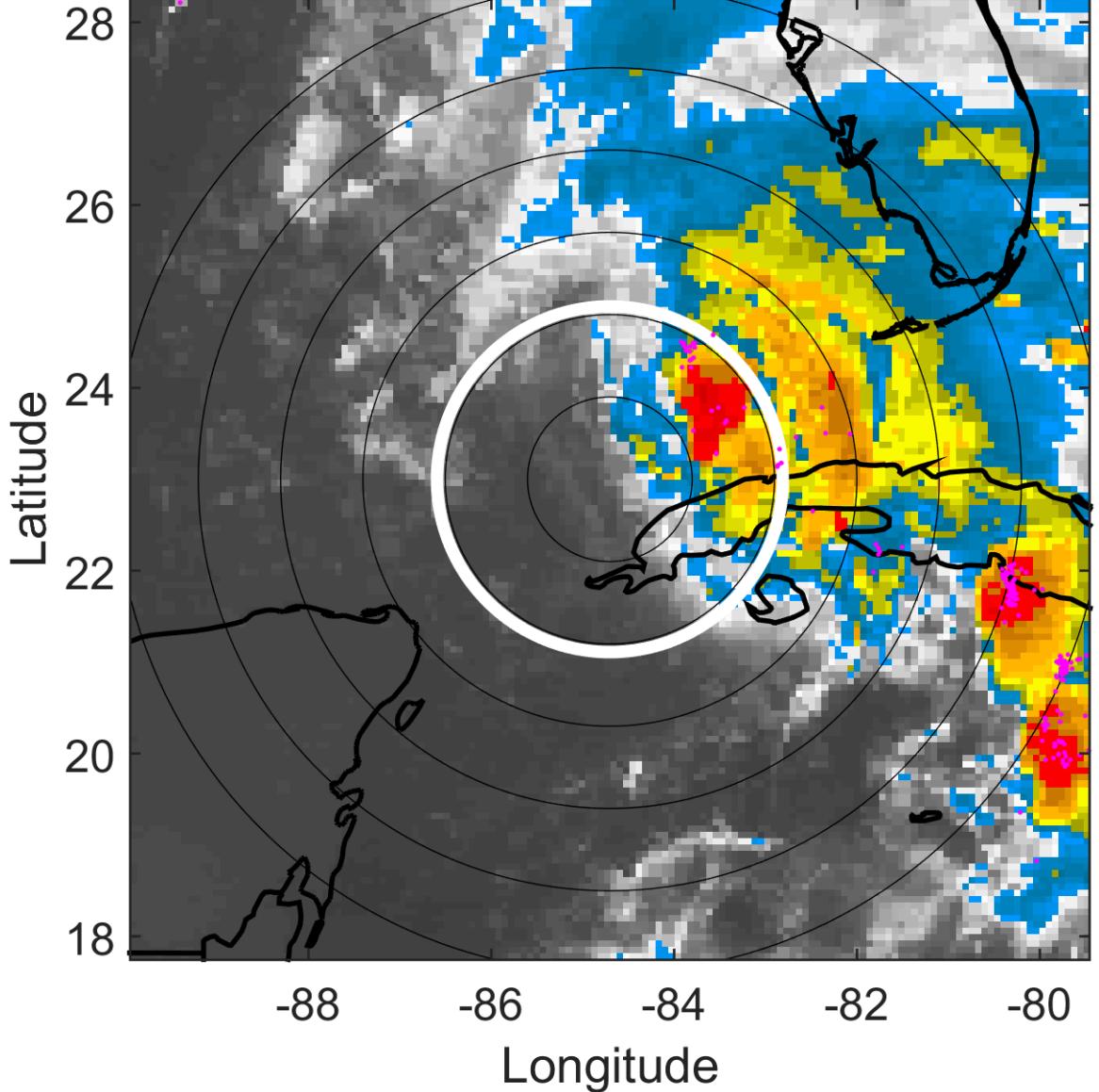
t: 2005061012 (6.4 LT)

Lightning: 6.4 LT  $\pm$  1.5 h (dots)

PT: LLCP | EA: QUASI

01L (ARLENE) | 50 kt TS

S: 9.4 m s<sup>-1</sup> (M) | H: 56°



### 6-h IR BT Differences & Lightning

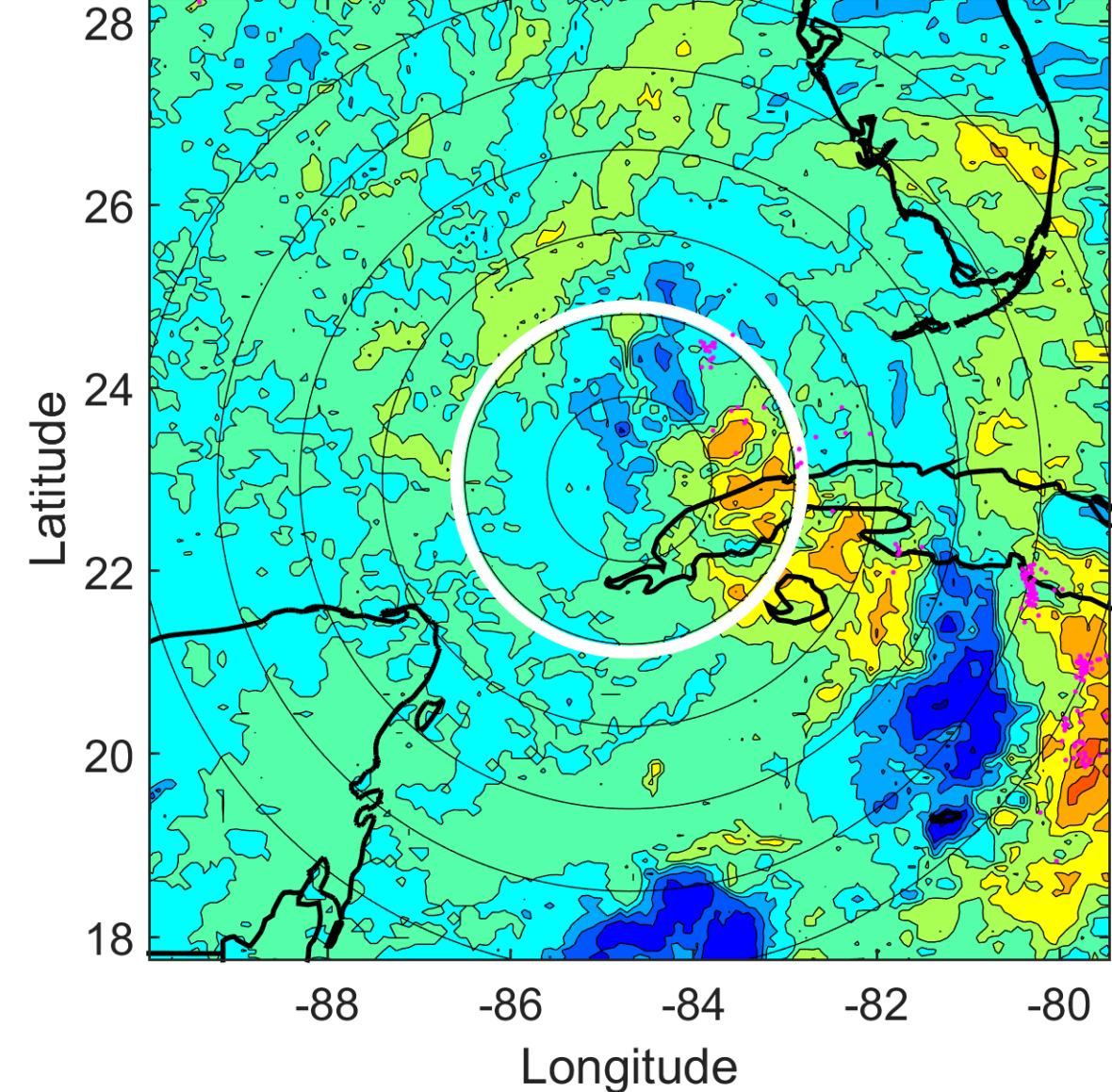
Δt: 2005061012 (6.4 LT) - 2005061006 (0.4 LT)

Lightning: 6.4 LT  $\pm$  1.5 h (dots)

PT: LLCP | EA: QUASI

01L (ARLENE) | 50 kt TS

S: 9.4 m s<sup>-1</sup> (M) | H: 56°



### IR BT & Lightning

t: 2005061015 (9.3 LT)

Lightning: 9.3 LT  $\pm$  1.5 h (dots)

PT: LLCP | EA: QUASI

01L (ARLENE) | 52.5 kt TS

S: 9.8 m s<sup>-1</sup> (M) | H: 53°

Latitude

28

26

24

22

20

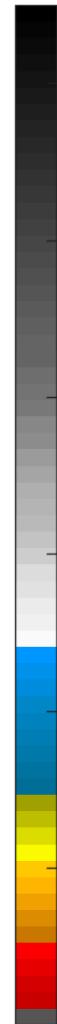
-90

-88

-86 -84

-82 -80

Longitude



### 6-h IR BT Differences & Lightning

Δt: 2005061015 (9.3 LT) - 2005061009 (3.4 LT)

Lightning: 9.3 LT  $\pm$  1.5 h (dots)

PT: LLCP | EA: QUASI

01L (ARLENE) | 52.5 kt TS

S: 9.8 m s<sup>-1</sup> (M) | H: 53°

Latitude

28

26

24

22

20

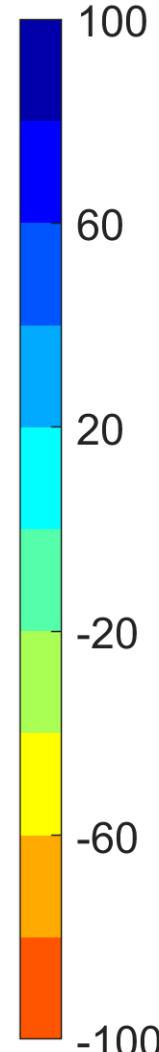
-90

-88

-86 -84

-82 -80

Longitude



### IR BT & Lightning

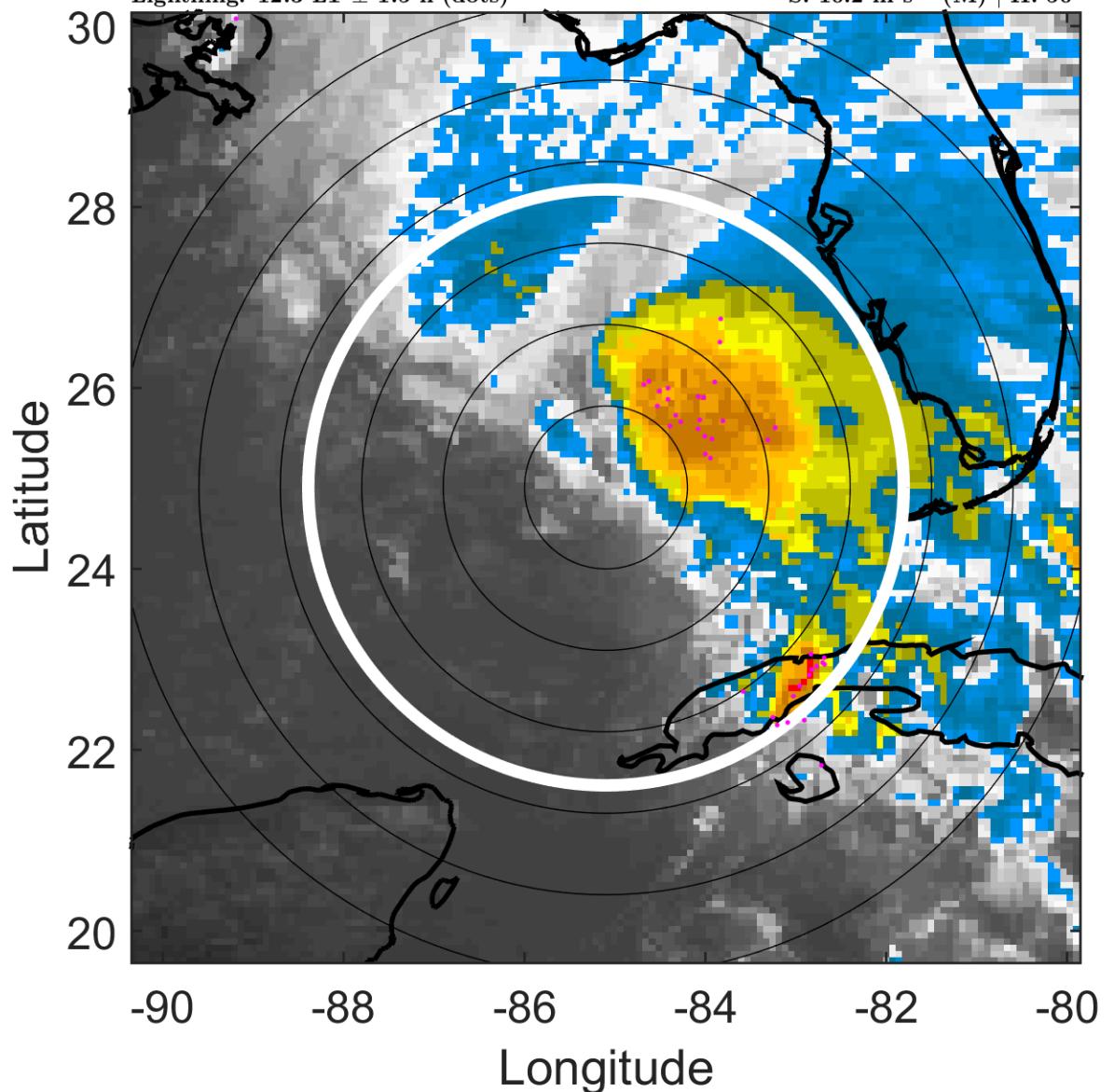
t: 2005061018 (12.3 LT)

Lightning: 12.3 LT  $\pm$  1.5 h (dots)

PT: LLCP | EA: QUASI

01L (ARLENE) | 55 kt TS

S: 10.2 m s<sup>-1</sup> (M) | H: 50°



### 6-h IR BT Differences & Lightning

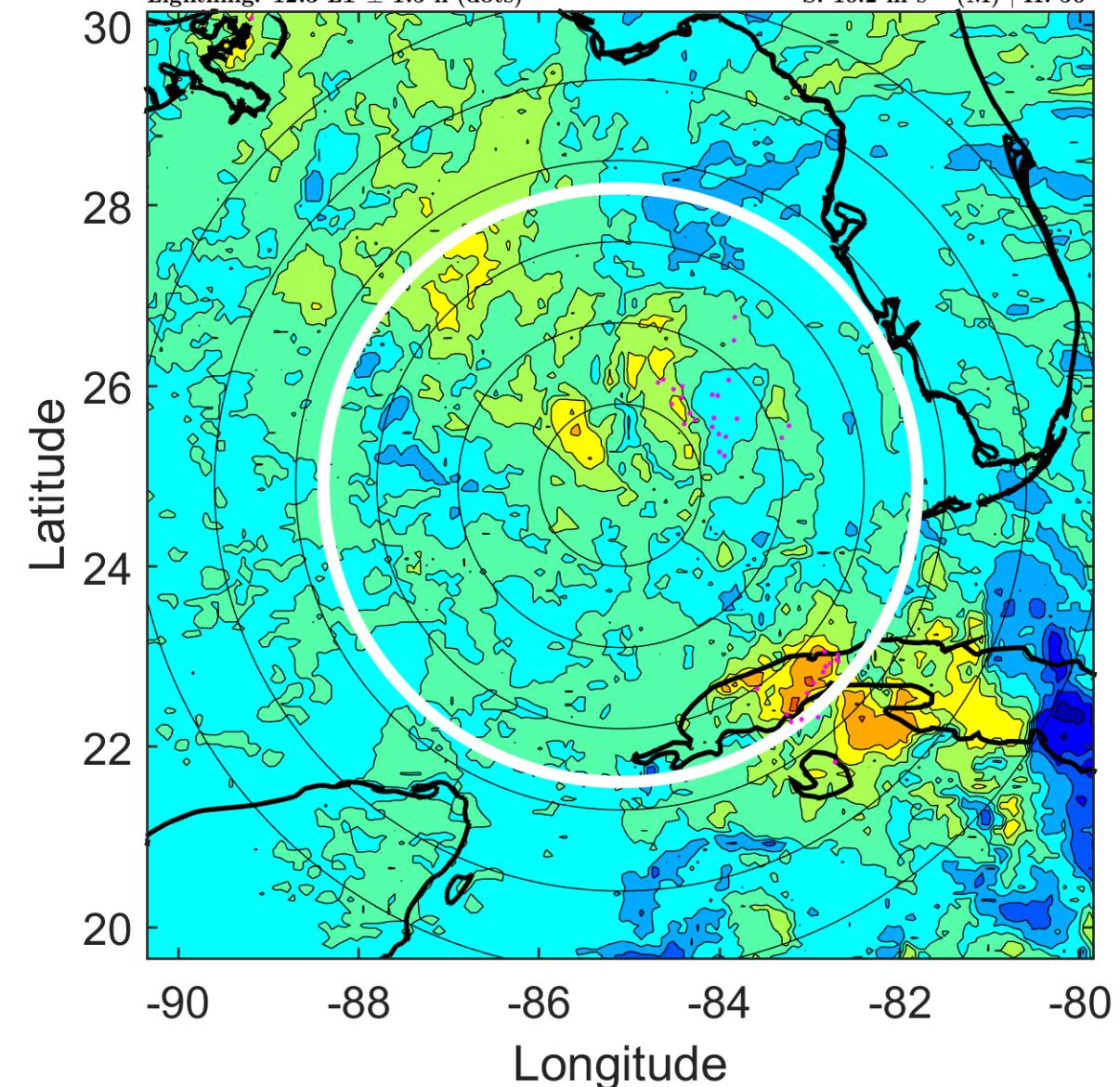
Δt: 2005061018 (12.3 LT) - 2005061012 (6.4 LT)

Lightning: 12.3 LT  $\pm$  1.5 h (dots)

PT: LLCP | EA: QUASI

01L (ARLENE) | 55 kt TS

S: 10.2 m s<sup>-1</sup> (M) | H: 50°



### IR BT & Lightning

t: 2005061021 (15.3 LT)

Lightning: 15.3 LT  $\pm$  1.5 h (dots)

PT: LLCP | EA: QUASI

01L (ARLENE) | 57.5 kt TS

S: 11.3 m s<sup>-1</sup> (H) | H: 61°

Latitude

30

28

26

24

22

-90

-88

-86

-84

-82

Longitude



### 6-h IR BT Differences & Lightning

Δt: 2005061021 (15.3 LT) - 2005061015 (9.3 LT)

Lightning: 15.3 LT  $\pm$  1.5 h (dots)

PT: LLCP | EA: QUASI

01L (ARLENE) | 57.5 kt TS

S: 11.3 m s<sup>-1</sup> (H) | H: 61°

Latitude

30

28

26

24

22

-90

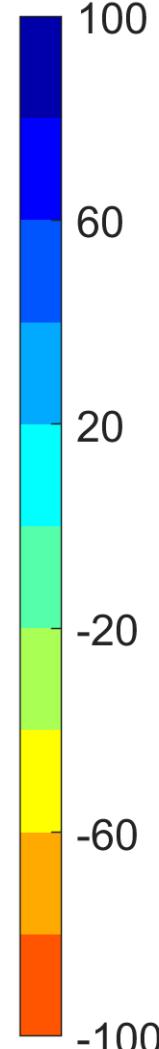
-88

-86

-84

-82

Longitude



### IR BT & Lightning

t: 2005061100 (18.3 LT)

Lightning: 18.3 LT ± 1.5 h (dots)

PT: LLCP | EA: QUASI

01L (ARLENE) | 60 kt TS

S:  $12.5 \text{ m s}^{-1}$  (H) | H: 72°

Latitude

30

28

26

24

22

-90

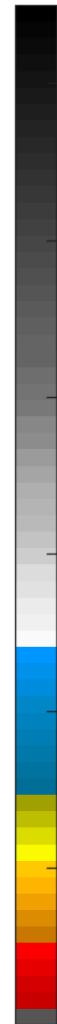
-88

-86

-84

-82

Longitude



### 6-h IR BT Differences & Lightning

Δt: 2005061100 (18.3 LT) - 2005061018 (12.3 LT)

Lightning: 18.3 LT ± 1.5 h (dots)

PT: LLCP | EA: QUASI

01L (ARLENE) | 60 kt TS

S:  $12.5 \text{ m s}^{-1}$  (H) | H: 72°

Latitude

30

28

26

24

22

-90

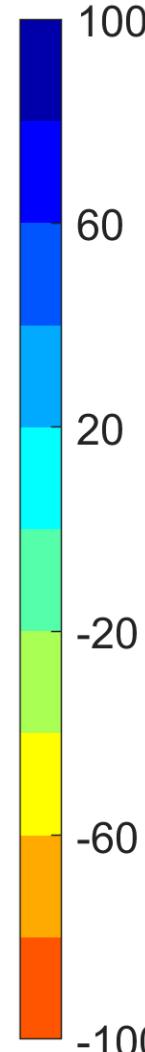
-88

-86

-84

-82

Longitude



### IR BT & Lightning

t: 2005061103 (21.3 LT)

Lightning: 21.3 LT ± 1.5 h (dots)

PT: LLCP | EA: QUASI

01L (ARLENE) | 60 kt TS

S: 10.9 m s<sup>-1</sup> (H) | H: 78.5°

Latitude

32

30

28

26

24

22

-90

-88

Longitude



### 6-h IR BT Differences & Lightning

Δt: 2005061103 (21.3 LT) - 2005061021 (15.3 LT)

Lightning: 21.3 LT ± 1.5 h (dots)

PT: LLCP | EA: QUASI

01L (ARLENE) | 60 kt TS

S: 10.9 m s<sup>-1</sup> (H) | H: 78.5°

Latitude

32

30

28

26

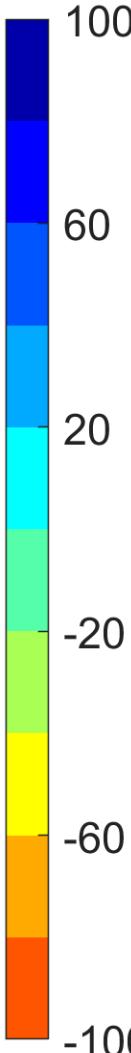
24

22

-90

-88

Longitude



### IR BT & Lightning

t: 2005061106 (0.2 LT)

Lightning: 0.2 LT ± 1.5 h (dots)

LAND EFFECTS  
01L (ARLENE) | 60 kt TS  
S:  $9.3 \text{ m s}^{-1}$  (M) | H: 85°

Latitude

32

30

28

26

24

-92

-90

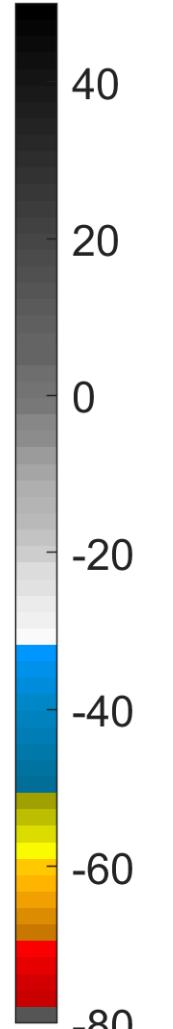
-88

-86

-84

-82

Longitude



### 6-h IR BT Differences & Lightning

Δt: 2005061106 (0.2 LT) - 2005061100 (18.3 LT)

Lightning: 0.2 LT ± 1.5 h (dots)

LAND EFFECTS  
01L (ARLENE) | 60 kt TS  
S:  $9.3 \text{ m s}^{-1}$  (M) | H: 85°

Latitude

32

30

28

26

24

-92

-90

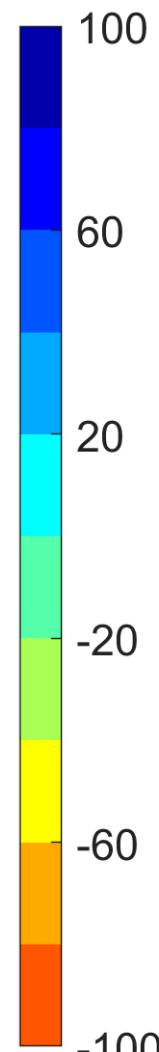
-88

-86

-84

-82

Longitude



### IR BT & Lightning

t: 2005061109 (3.2 LT)

Lightning: 3.2 LT ± 1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 57.5 kt TS

S:  $9.3 \text{ m s}^{-1}$  (M) | H:  $70.5^\circ$

Latitude

32

30

28

26

24

-92

-90

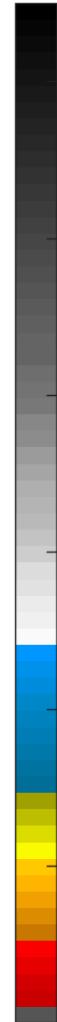
-88

-86

-84

-82

Longitude



40  
20  
0  
-20  
-40  
-60  
-80

### 6-h IR BT Differences & Lightning

Δt: 2005061109 (3.2 LT) - 2005061103 (21.3 LT)

Lightning: 3.2 LT ± 1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 57.5 kt TS

S:  $9.3 \text{ m s}^{-1}$  (M) | H:  $70.5^\circ$

Latitude

32

30

28

26

24

-92

-90

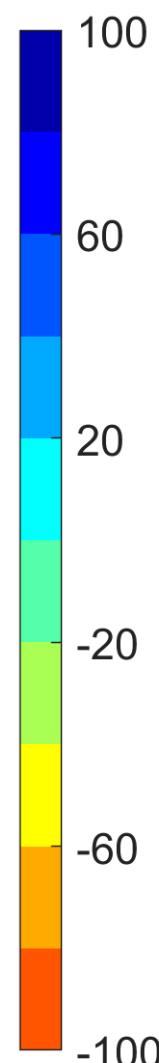
-88

-86

-84

-82

Longitude



100  
60  
20  
-20  
-60  
-100

### IR BT & Lightning

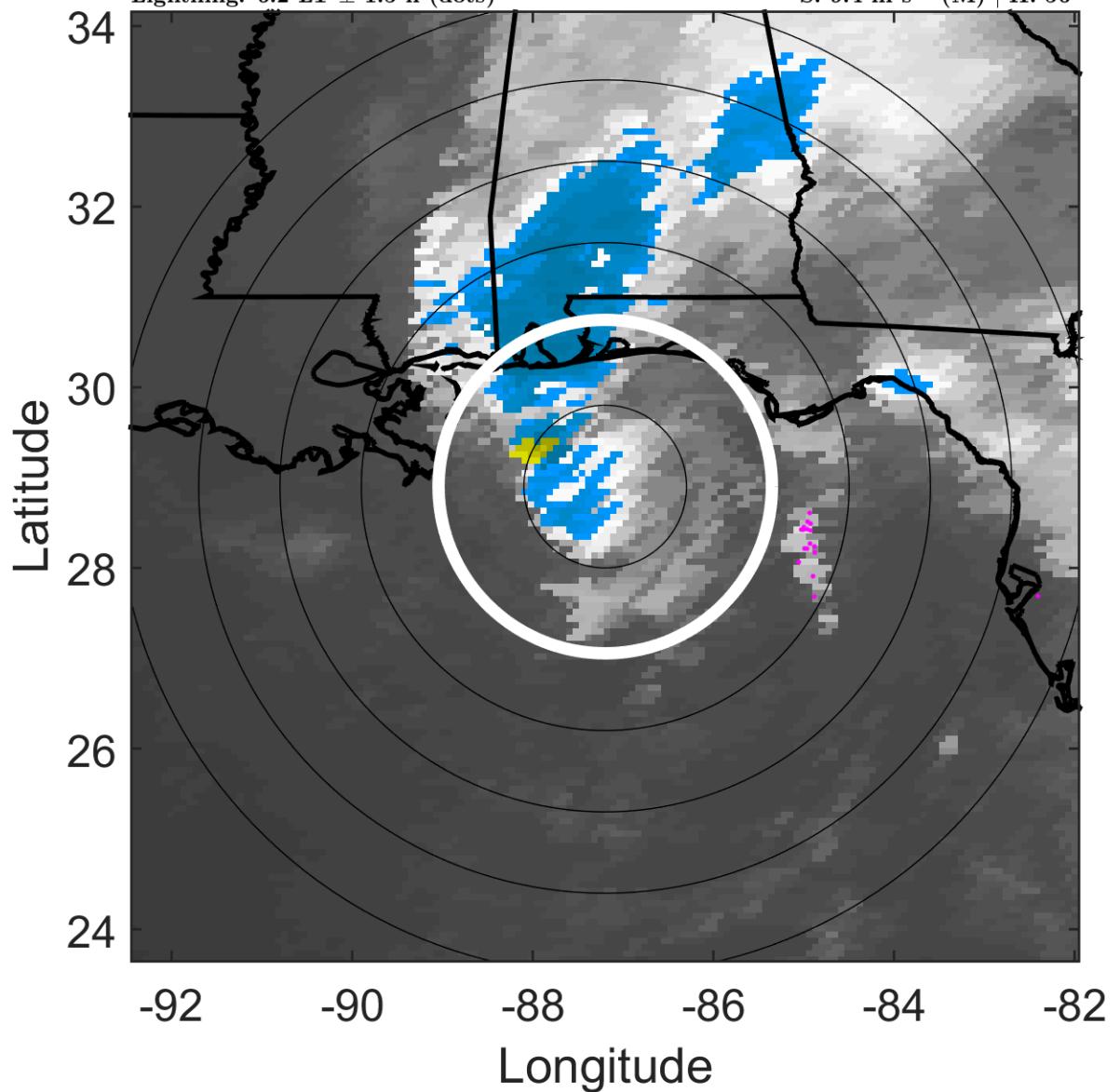
t: 2005061112 (6.2 LT)

Lightning: 6.2 LT  $\pm$  1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 55 kt TS

S:  $9.4 \text{ m s}^{-1}$  (M) | H:  $56^\circ$



### 6-h IR BT Differences & Lightning

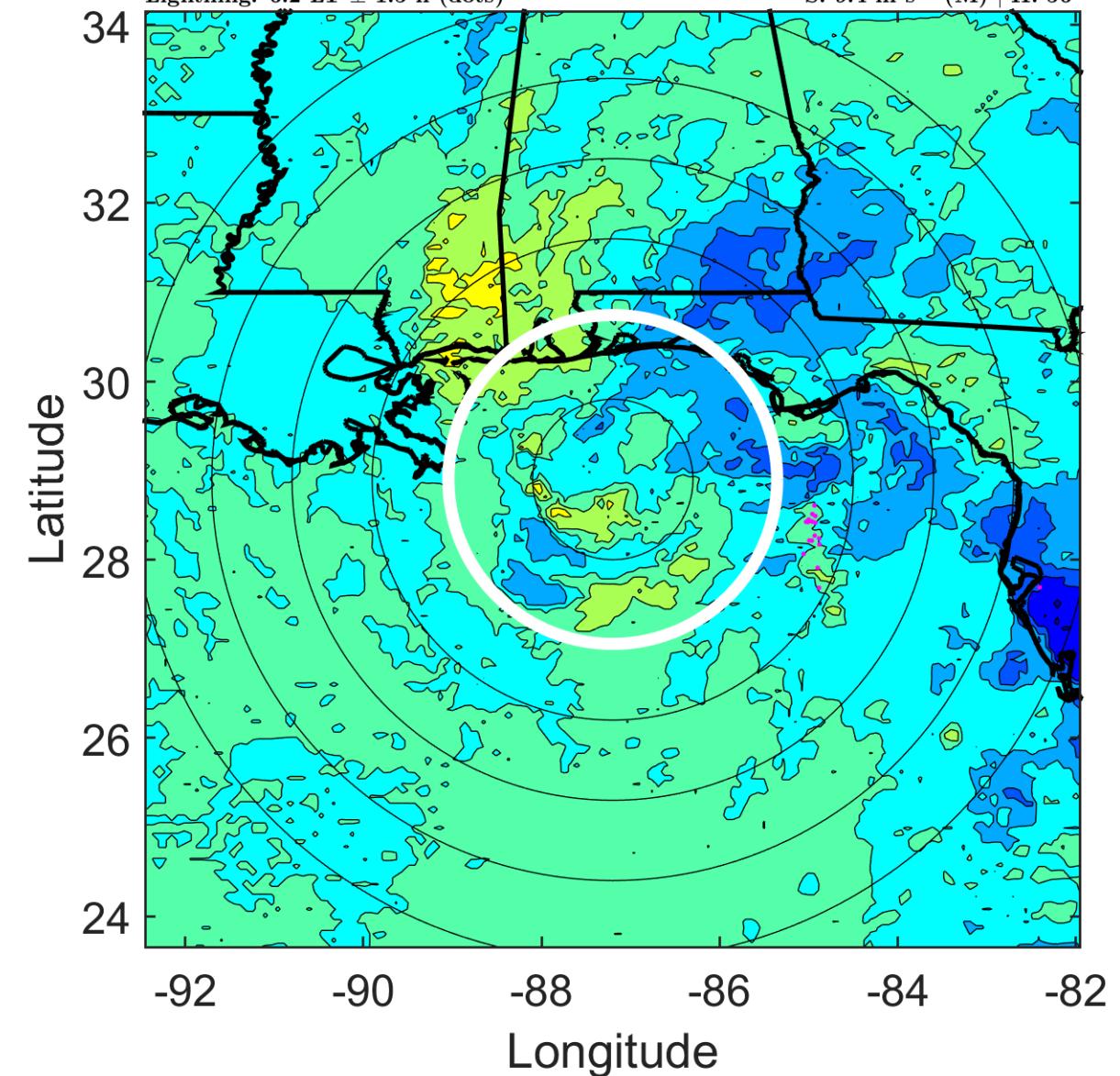
$\Delta t$ : 2005061112 (6.2 LT) - 2005061106 (0.2 LT)

Lightning: 6.2 LT  $\pm$  1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 55 kt TS

S:  $9.4 \text{ m s}^{-1}$  (M) | H:  $56^\circ$



### IR BT & Lightning

t: 2005061115 (9.2 LT)

Lightning: 9.2 LT  $\pm$  1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 52.5 kt TS

S:  $10.4 \text{ m s}^{-1}$  (M) | H:  $55.5^\circ$

Latitude

34

32

30

28

26

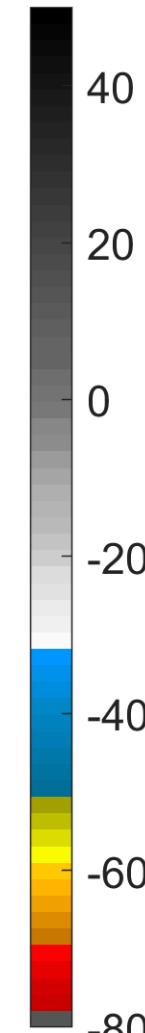
-92

-90

-88 -86

-84

Longitude



### 6-h IR BT Differences & Lightning

$\Delta t$ : 2005061115 (9.2 LT) - 2005061109 (3.2 LT)

Lightning: 9.2 LT  $\pm$  1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 52.5 kt TS

S:  $10.4 \text{ m s}^{-1}$  (M) | H:  $55.5^\circ$

Latitude

34

32

30

28

26

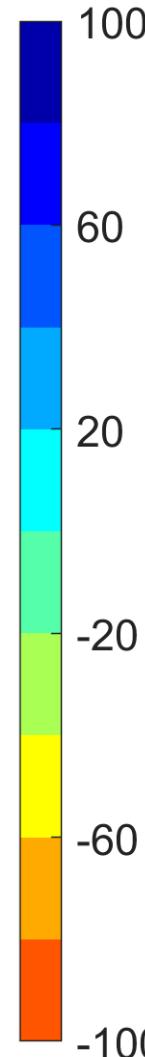
-92

-90

-88 -86

-84

Longitude



### IR BT & Lightning

t: 2005061118 (12.2 LT)

Lightning: 12.2 LT  $\pm$  1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 50 kt TS

S:  $11.4 \text{ m s}^{-1}$  (H) | H:  $55^\circ$

Latitude

34

32

30

28

26

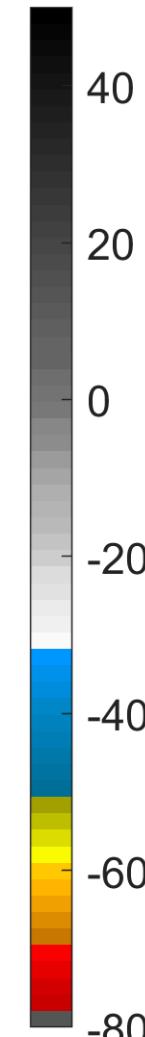
-92

-90

-88 -86

-84

Longitude



### 6-h IR BT Differences & Lightning

$\Delta t$ : 2005061118 (12.2 LT) - 2005061112 (6.2 LT)

Lightning: 12.2 LT  $\pm$  1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 50 kt TS

S:  $11.4 \text{ m s}^{-1}$  (H) | H:  $55^\circ$

Latitude

40

20

0

-20

-40

-60

-80

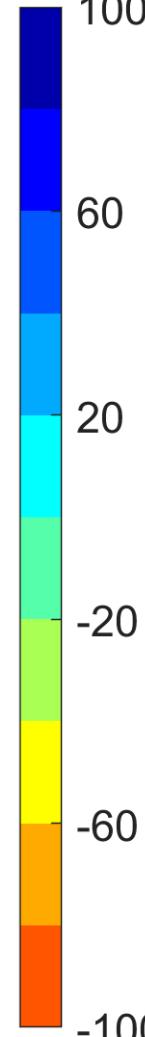
-92

-90

-88 -86

-84

Longitude



### IR BT & Lightning

t: 2005061121 (15.2 LT)

Lightning: 15.2 LT  $\pm$  1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 40 kt TS

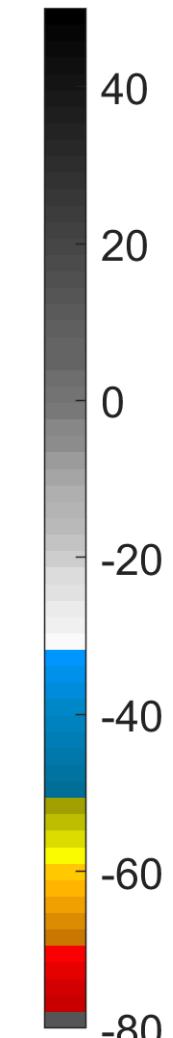
S: 9.6 m s<sup>-1</sup> (M) | H: 50.5°

Latitude

36  
34  
32  
30  
28  
26

-92 -90 -88 -86 -84

Longitude



### 6-h IR BT Differences & Lightning

Δt: 2005061121 (15.2 LT) - 2005061115 (9.2 LT)

Lightning: 15.2 LT  $\pm$  1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 40 kt TS

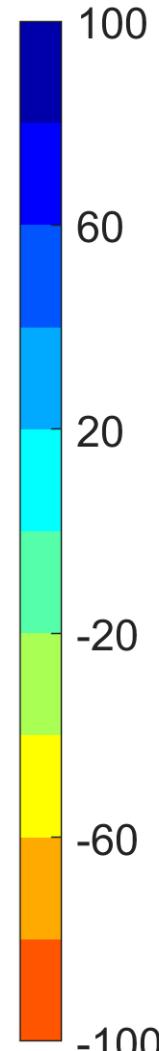
S: 9.6 m s<sup>-1</sup> (M) | H: 50.5°

Latitude

36  
34  
32  
30  
28  
26

-92 -90 -88 -86 -84

Longitude



### IR BT & Lightning

t: 2005061200 (18.2 LT)

Lightning: 18.2 LT  $\pm$  1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 30 kt TD

S:  $7.8 \text{ m s}^{-1}$  (M) | H:  $46^\circ$

Latitude

36

34

32

30

28

-92

-90

Longitude



### 6-h IR BT Differences & Lightning

$\Delta t$ : 2005061200 (18.2 LT) - 2005061118 (12.2 LT)

Lightning: 18.2 LT  $\pm$  1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 30 kt TD

S:  $7.8 \text{ m s}^{-1}$  (M) | H:  $46^\circ$

Latitude

36

34

32

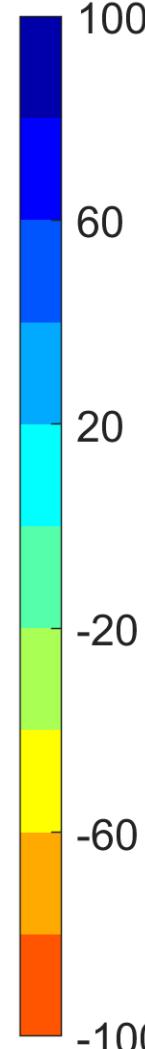
30

28

-92

-90

Longitude



### IR BT & Lightning

t: 2005061203 (21.2 LT)

Lightning: 21.2 LT ± 1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 27.5 kt TD

S:  $8.7 \text{ m s}^{-1}$  (M) | H: 44°

Latitude

36

34

32

30

28

-92

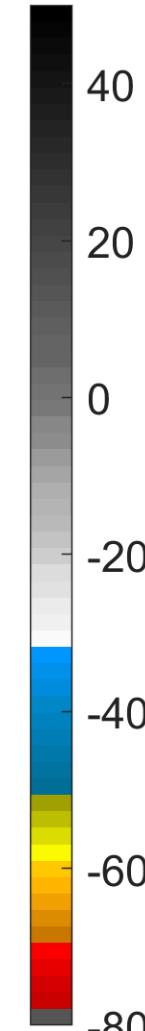
-90

-88

-86

-84

Longitude



### 6-h IR BT Differences & Lightning

Δt: 2005061203 (21.2 LT) - 2005061121 (15.2 LT)

Lightning: 21.2 LT ± 1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 27.5 kt TD

S:  $8.7 \text{ m s}^{-1}$  (M) | H: 44°

Latitude

36

34

32

30

28

-92

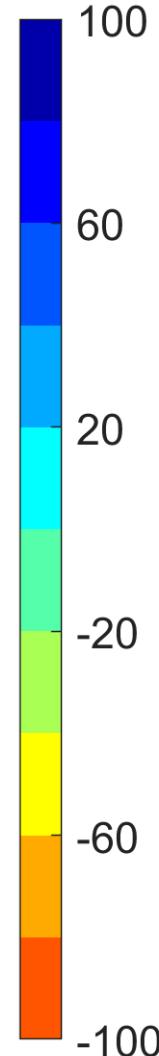
-90

-88

-86

-84

Longitude



### IR BT & Lightning

t: 2005061206 (0.2 LT)

Lightning: 0.2 LT ± 1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 25 kt TD

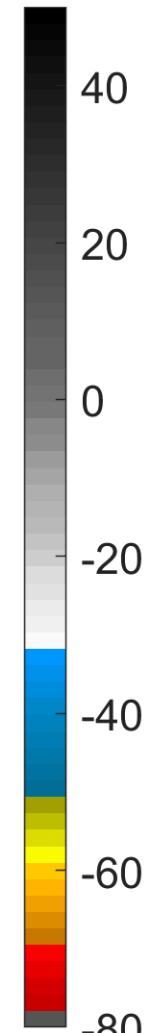
S:  $9.6 \text{ m s}^{-1}$  (M) | H: 42°

Latitude

36  
34  
32  
30  
28

-92 -90 -88 -86 -84

Longitude



### 6-h IR BT Differences & Lightning

Δt: 2005061206 (0.2 LT) - 2005061200 (18.2 LT)

Lightning: 0.2 LT ± 1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 25 kt TD

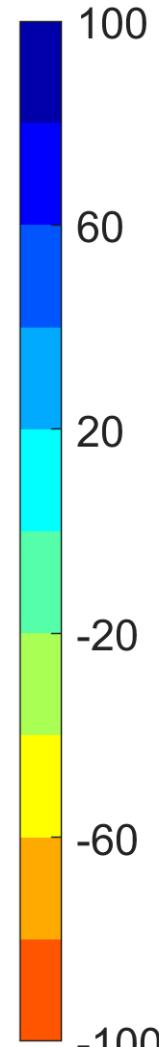
S:  $9.6 \text{ m s}^{-1}$  (M) | H: 42°

Latitude

36  
34  
32  
30  
28

-92 -90 -88 -86 -84

Longitude



### IR BT & Lightning

t: 2005061209 (3.1 LT)

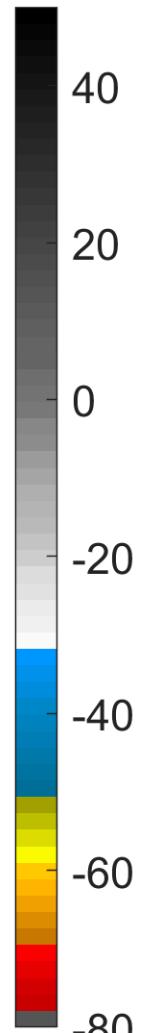
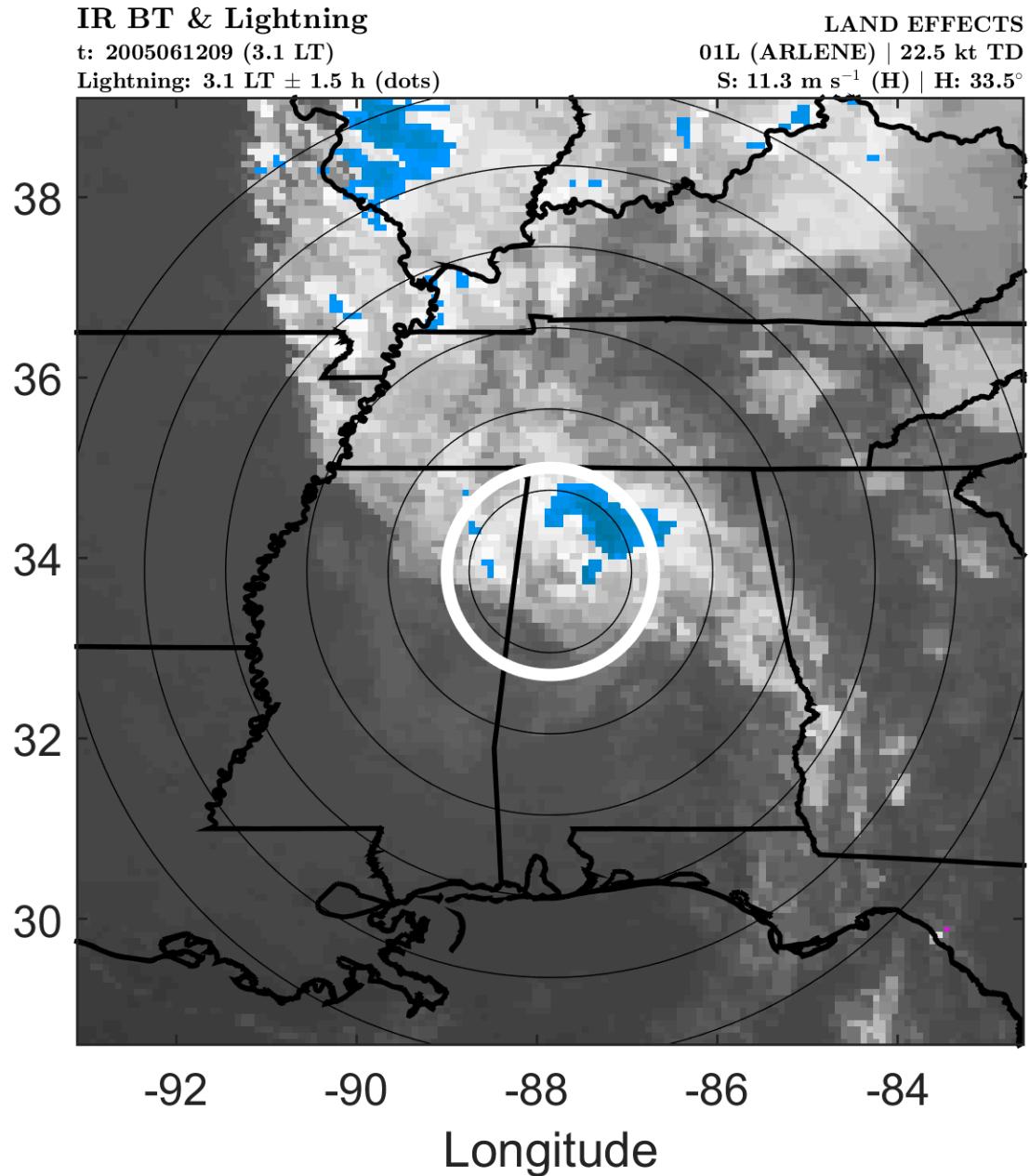
Lightning: 3.1 LT  $\pm$  1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 22.5 kt TD

S:  $11.3 \text{ m s}^{-1}$  (H) | H:  $33.5^\circ$

Latitude



### 6-h IR BT Differences & Lightning

$\Delta t$ : 2005061209 (3.1 LT) - 2005061203 (21.2 LT)

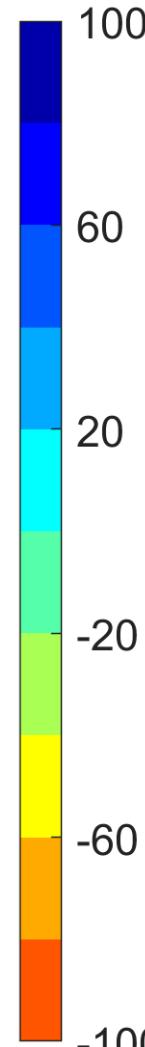
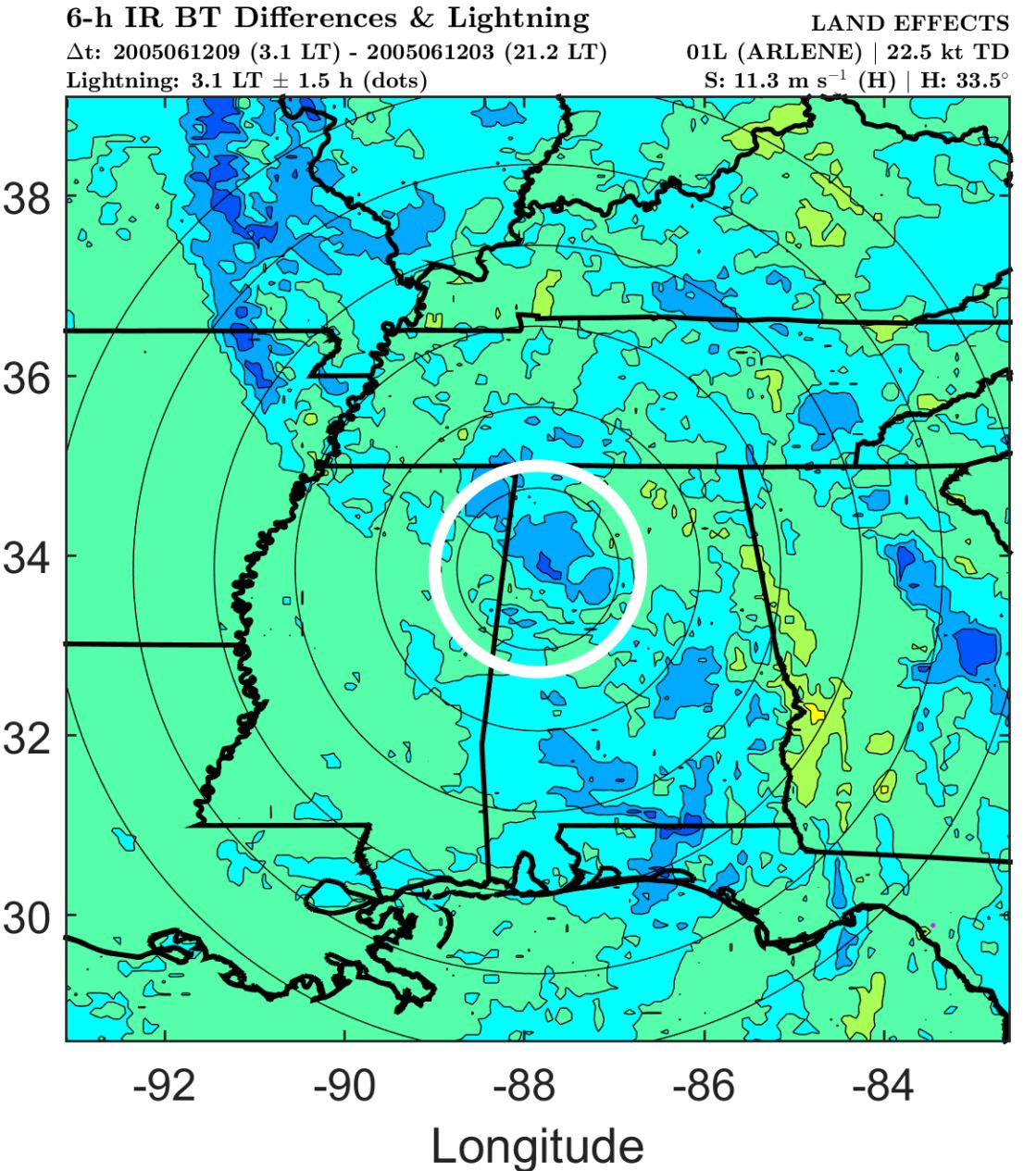
Lightning: 3.1 LT  $\pm$  1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 22.5 kt TD

S:  $11.3 \text{ m s}^{-1}$  (H) | H:  $33.5^\circ$

Latitude



### IR BT & Lightning

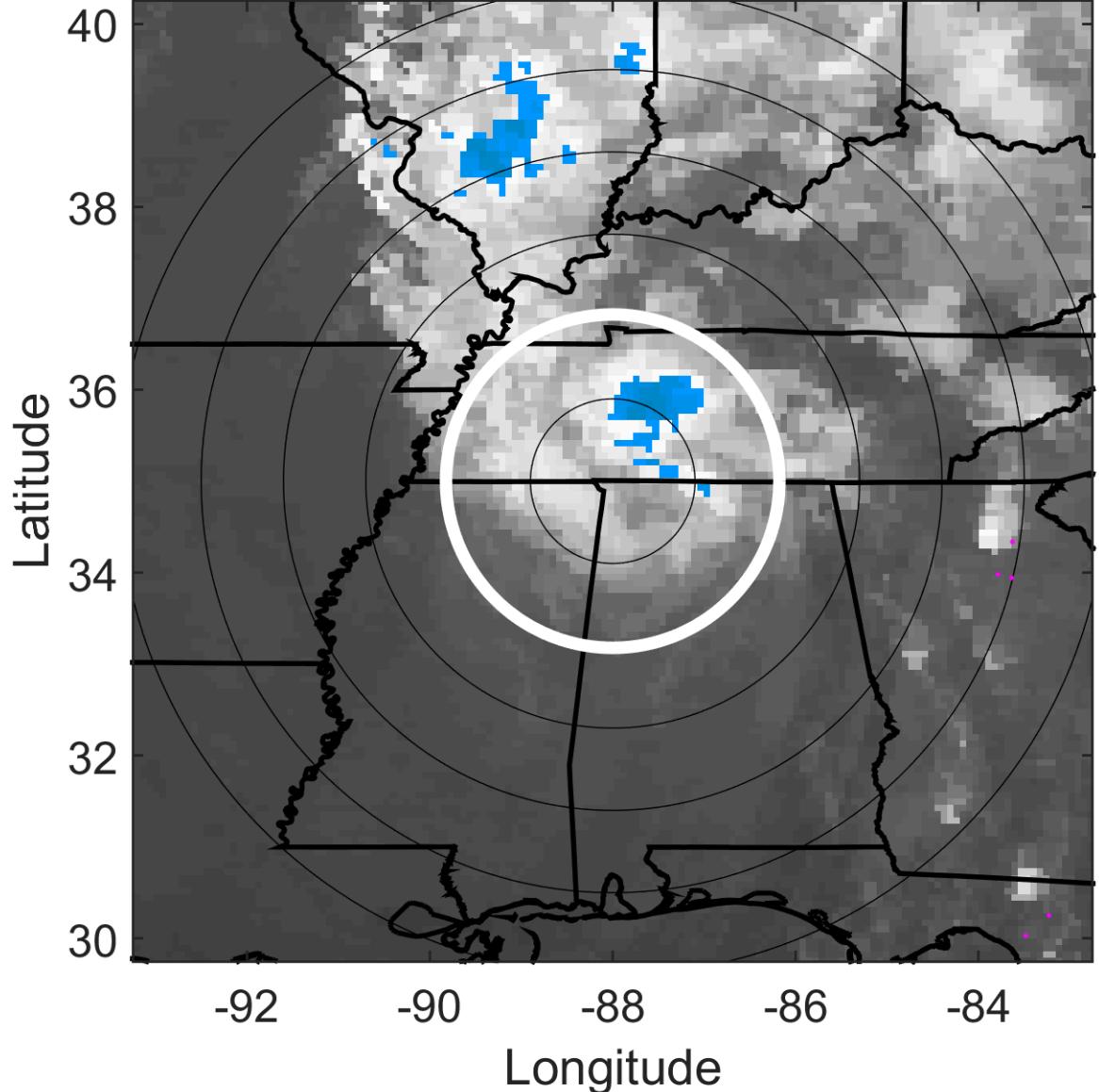
t: 2005061212 (6.1 LT)

Lightning: 6.1 LT  $\pm$  1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 20 kt TD

S:  $13.1 \text{ m s}^{-1}$  (H) | H:  $25^\circ$



### 6-h IR BT Differences & Lightning

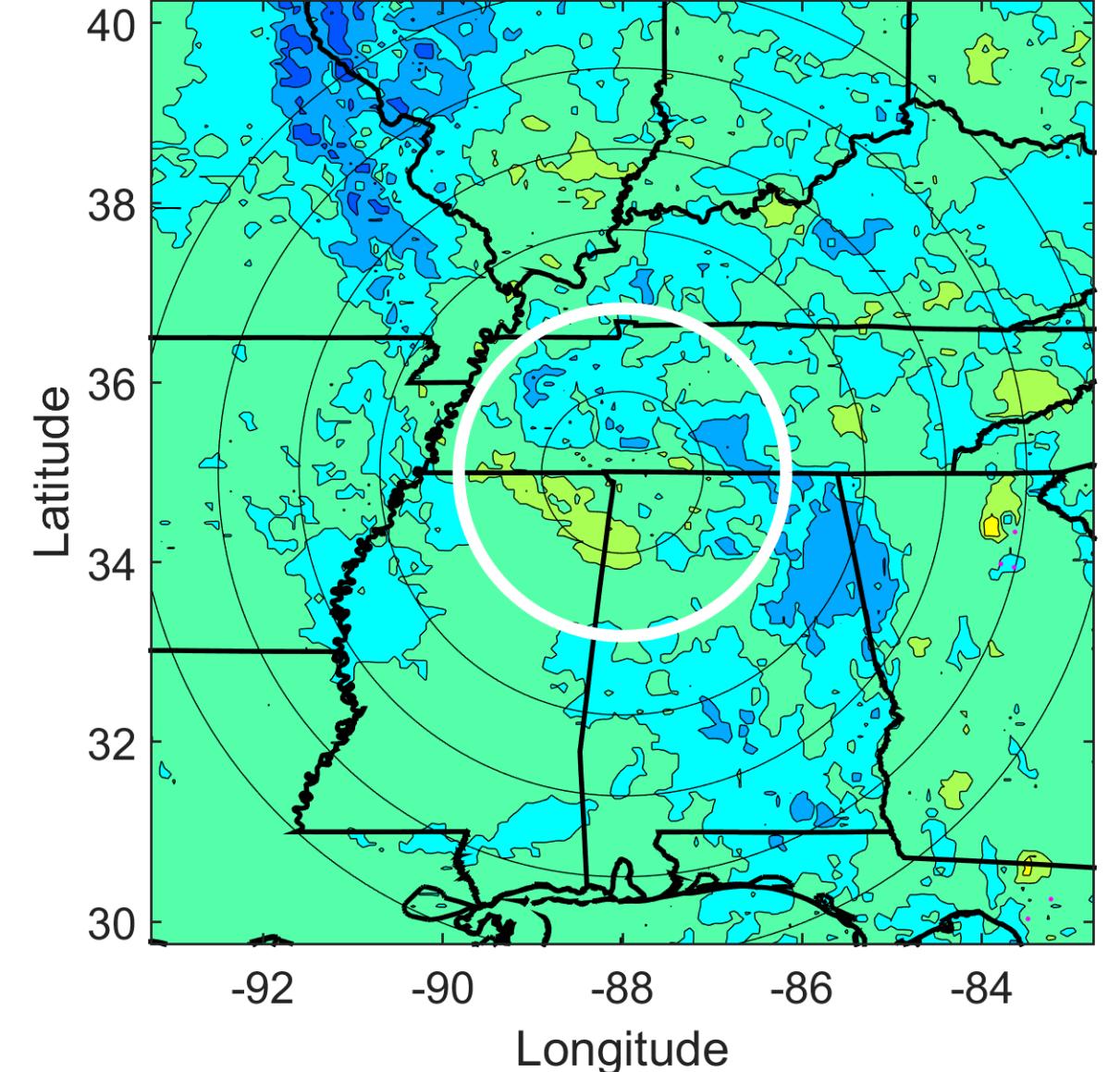
$\Delta t$ : 2005061212 (6.1 LT) - 2005061206 (0.2 LT)

Lightning: 6.1 LT  $\pm$  1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 20 kt TD

S:  $13.1 \text{ m s}^{-1}$  (H) | H:  $25^\circ$



### IR BT & Lightning

t: 2005061215 (9.1 LT)

Lightning: 9.1 LT  $\pm$  1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 20 kt TD

S:  $14.6 \text{ m s}^{-1}$  (H) | H:  $26.5^\circ$

Latitude

40

38

36

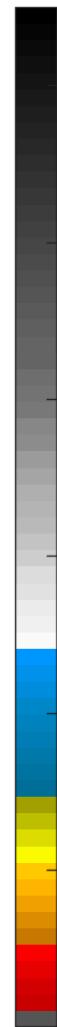
34

32

-92

-90

-88  
Longitude



40  
20  
0  
-20  
-40  
-60  
-80

### 6-h IR BT Differences & Lightning

$\Delta t$ : 2005061215 (9.1 LT) - 2005061209 (3.1 LT)

Lightning: 9.1 LT  $\pm$  1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 20 kt TD

S:  $14.6 \text{ m s}^{-1}$  (H) | H:  $26.5^\circ$

Latitude

40

38

36

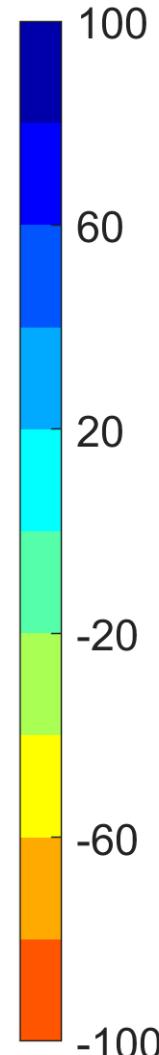
34

32

-92

-90

-88  
Longitude



### IR BT & Lightning

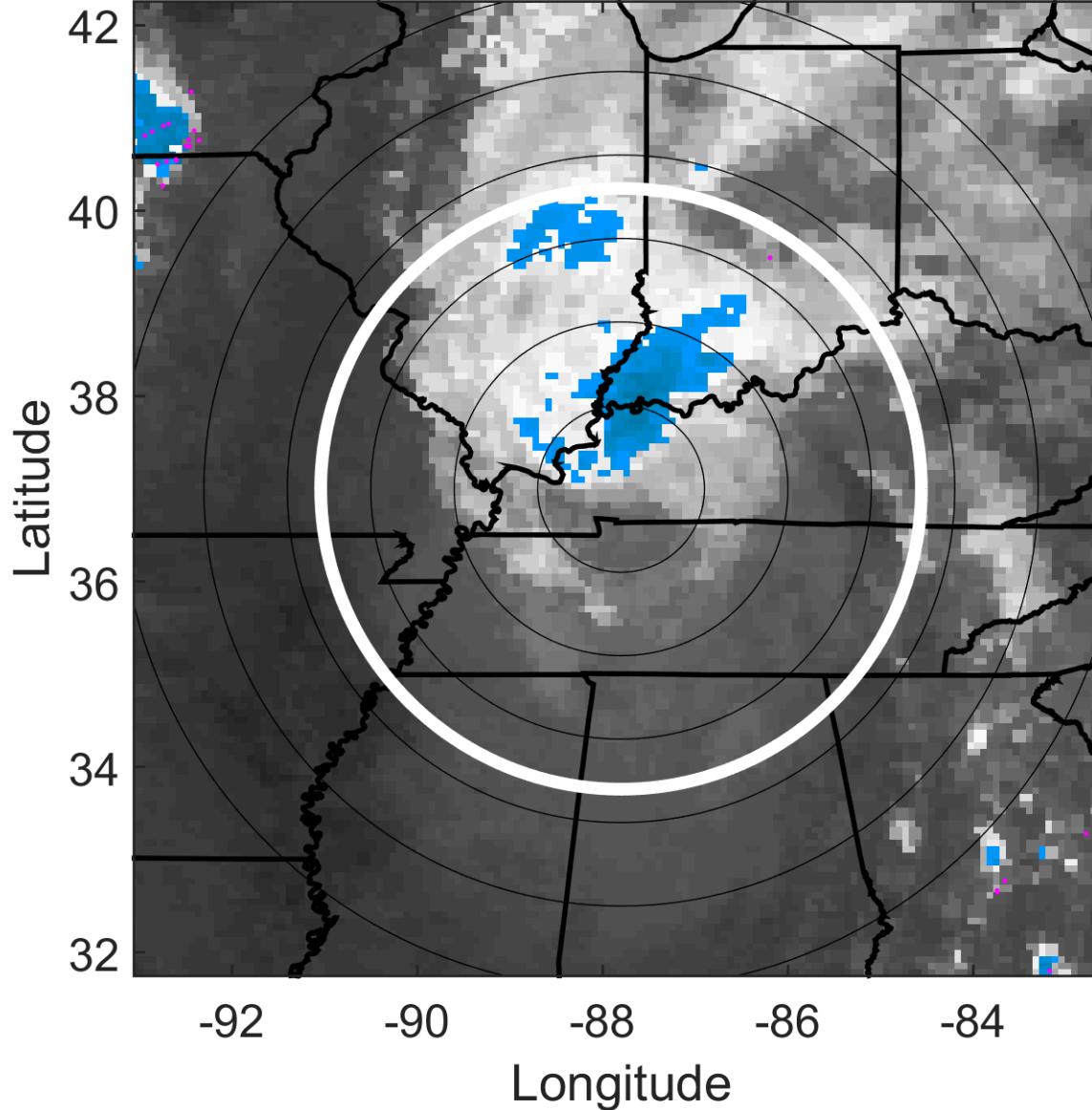
t: 2005061218 (12.1 LT)

Lightning: 12.1 LT  $\pm$  1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 20 kt TD

S:  $16.1 \text{ m s}^{-1}$  (H) | H:  $28^\circ$



### 6-h IR BT Differences & Lightning

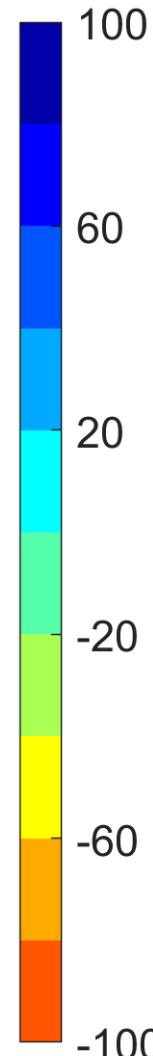
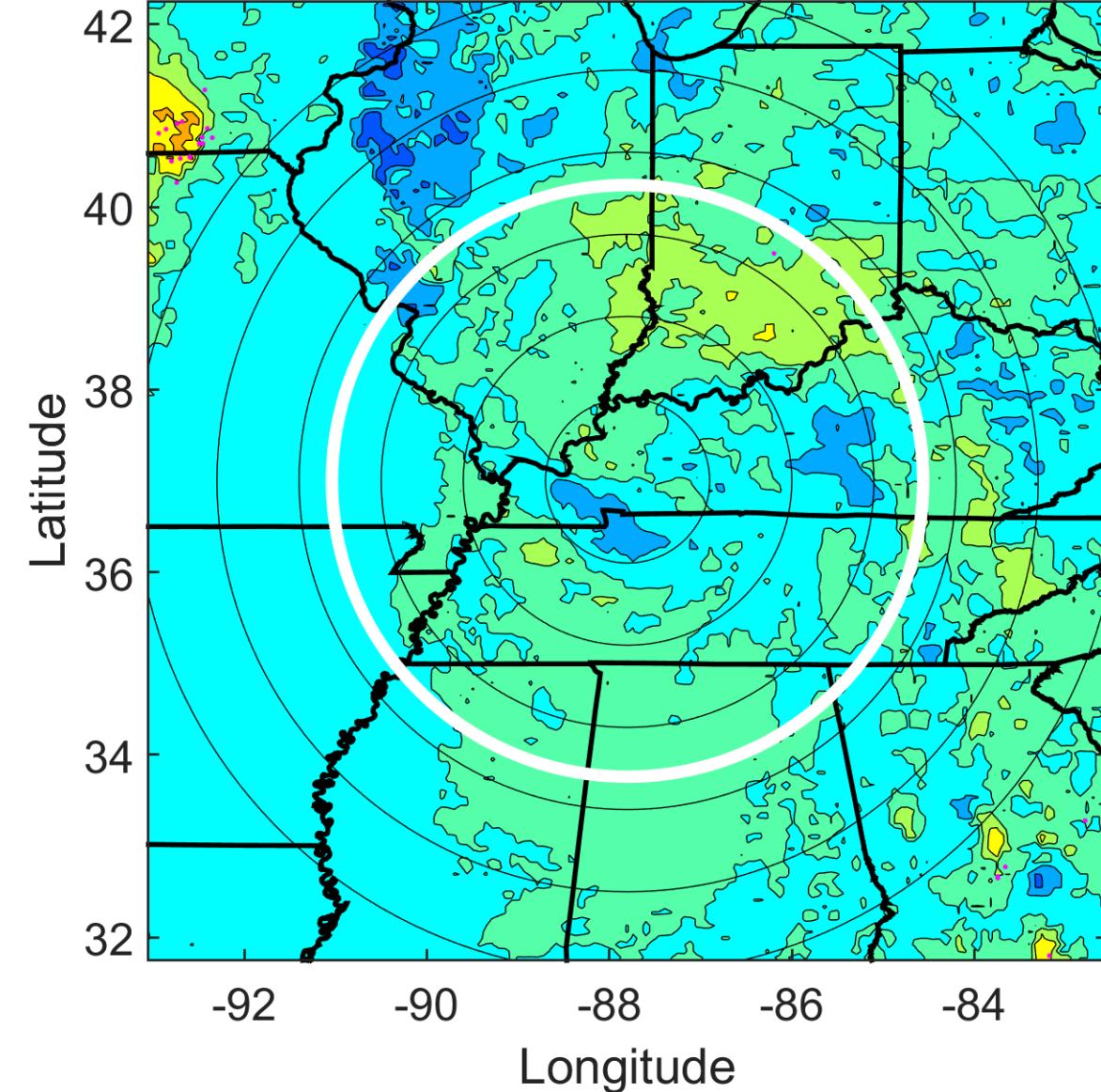
$\Delta t$ : 2005061218 (12.1 LT) - 2005061212 (6.1 LT)

Lightning: 12.1 LT  $\pm$  1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 20 kt TD

S:  $16.1 \text{ m s}^{-1}$  (H) | H:  $28^\circ$



### IR BT & Lightning

t: 2005061221 (15.2 LT)

Lightning: 15.2 LT ± 1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 20 kt TD

S: 15.9 m s<sup>-1</sup> (H) | H: 29.5°

Latitude

42

40

38

36

34

-92

-90

-88

-86

-84

Longitude



### 6-h IR BT Differences & Lightning

Δt: 2005061221 (15.2 LT) - 2005061215 (9.1 LT)

Lightning: 15.2 LT ± 1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 20 kt TD

S: 15.9 m s<sup>-1</sup> (H) | H: 29.5°

Latitude

42

40

38

36

34

-92

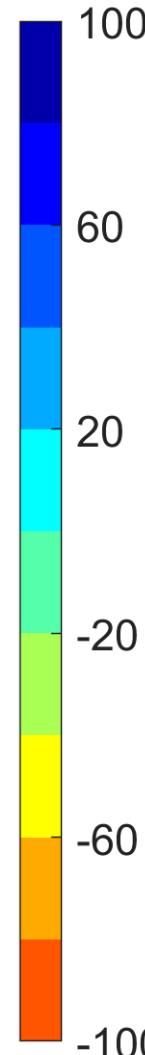
-90

-88

-86

-84

Longitude



### IR BT & Lightning

t: 2005061300 (18.2 LT)

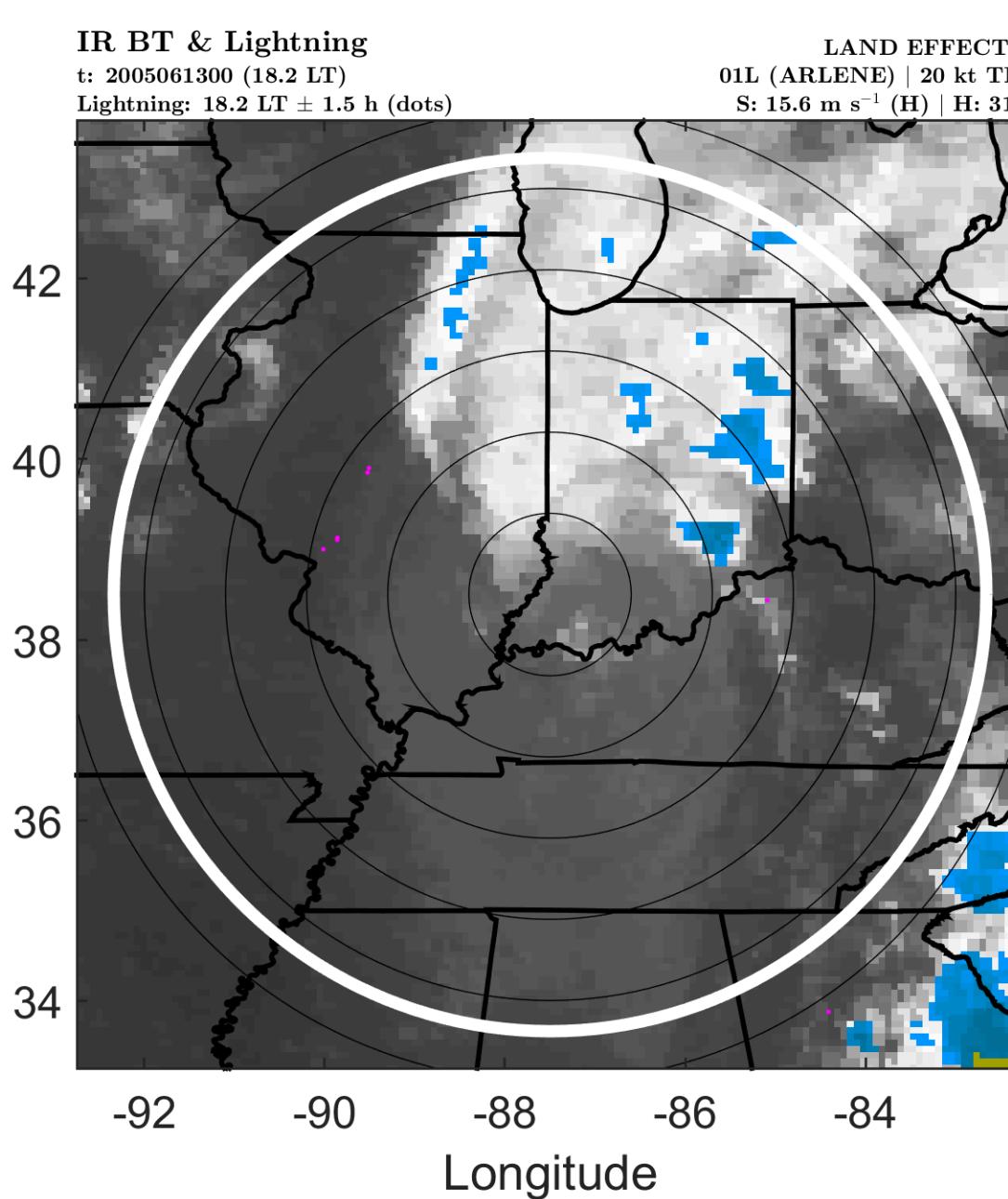
Lightning: 18.2 LT ± 1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 20 kt TD

S:  $15.6 \text{ m s}^{-1}$  (H) | H: 31°

Latitude



### 6-h IR BT Differences & Lightning

Δt: 2005061300 (18.2 LT) - 2005061218 (12.1 LT)

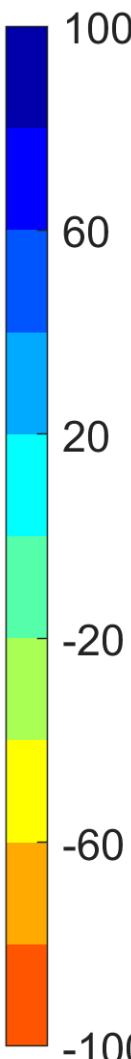
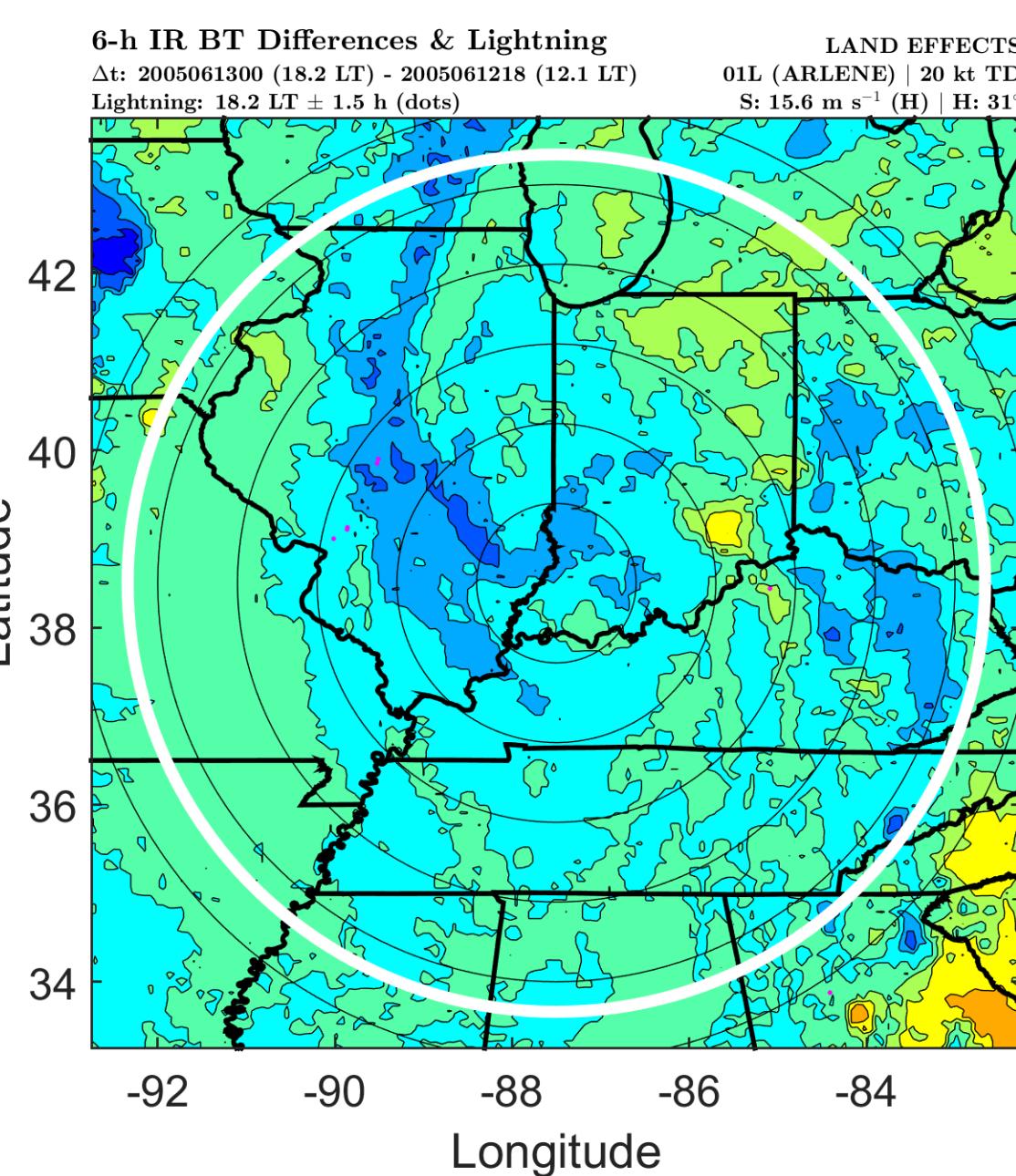
Lightning: 18.2 LT ± 1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 20 kt TD

S:  $15.6 \text{ m s}^{-1}$  (H) | H: 31°

Latitude



### IR BT & Lightning

t: 2005061303 (21.2 LT)

Lightning: 21.2 LT  $\pm$  1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 20 kt TD

S: 14.7 m s<sup>-1</sup> (H) | H: 36.5°

Latitude

44

42

40

38

36

-92

-90

-88

-86

-84

-82

Longitude



### 6-h IR BT Differences & Lightning

Δt: 2005061303 (21.2 LT) - 2005061221 (15.2 LT)

Lightning: 21.2 LT  $\pm$  1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 20 kt TD

S: 14.7 m s<sup>-1</sup> (H) | H: 36.5°

Latitude

44

42

40

38

36

-92

-90

-88

-86

-84

-82

Longitude

### IR BT & Lightning

t: 2005061306 (0.3 LT)

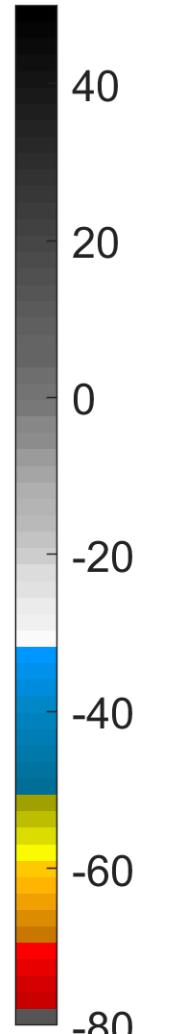
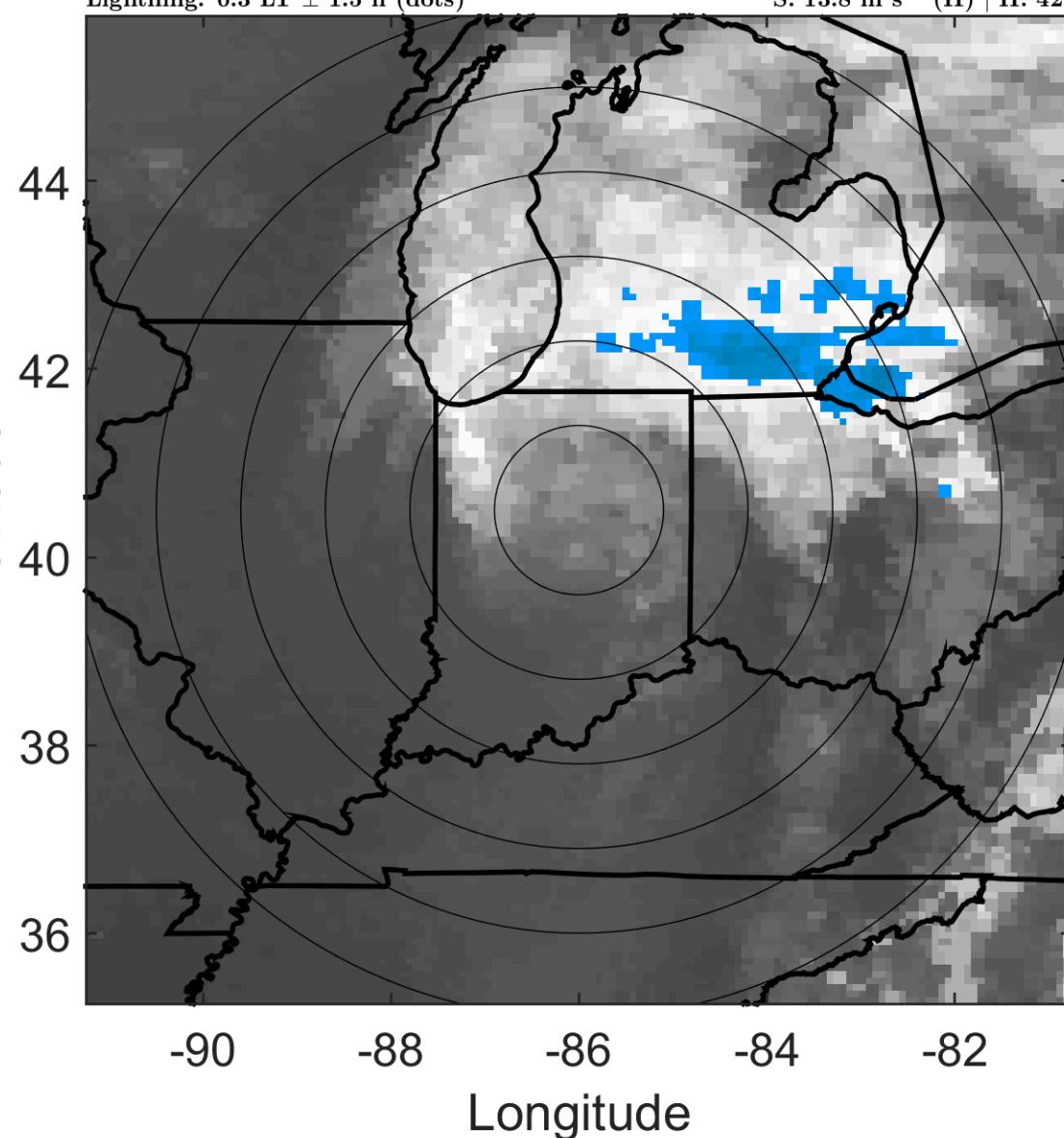
Lightning: 0.3 LT ± 1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 20 kt TD

S:  $13.8 \text{ m s}^{-1}$  (H) | H: 42°

Latitude



### 6-h IR BT Differences & Lightning

Δt: 2005061306 (0.3 LT) - 2005061300 (18.2 LT)

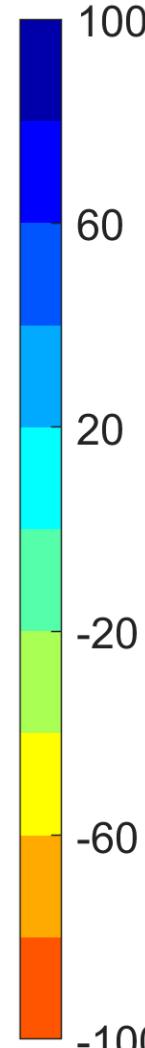
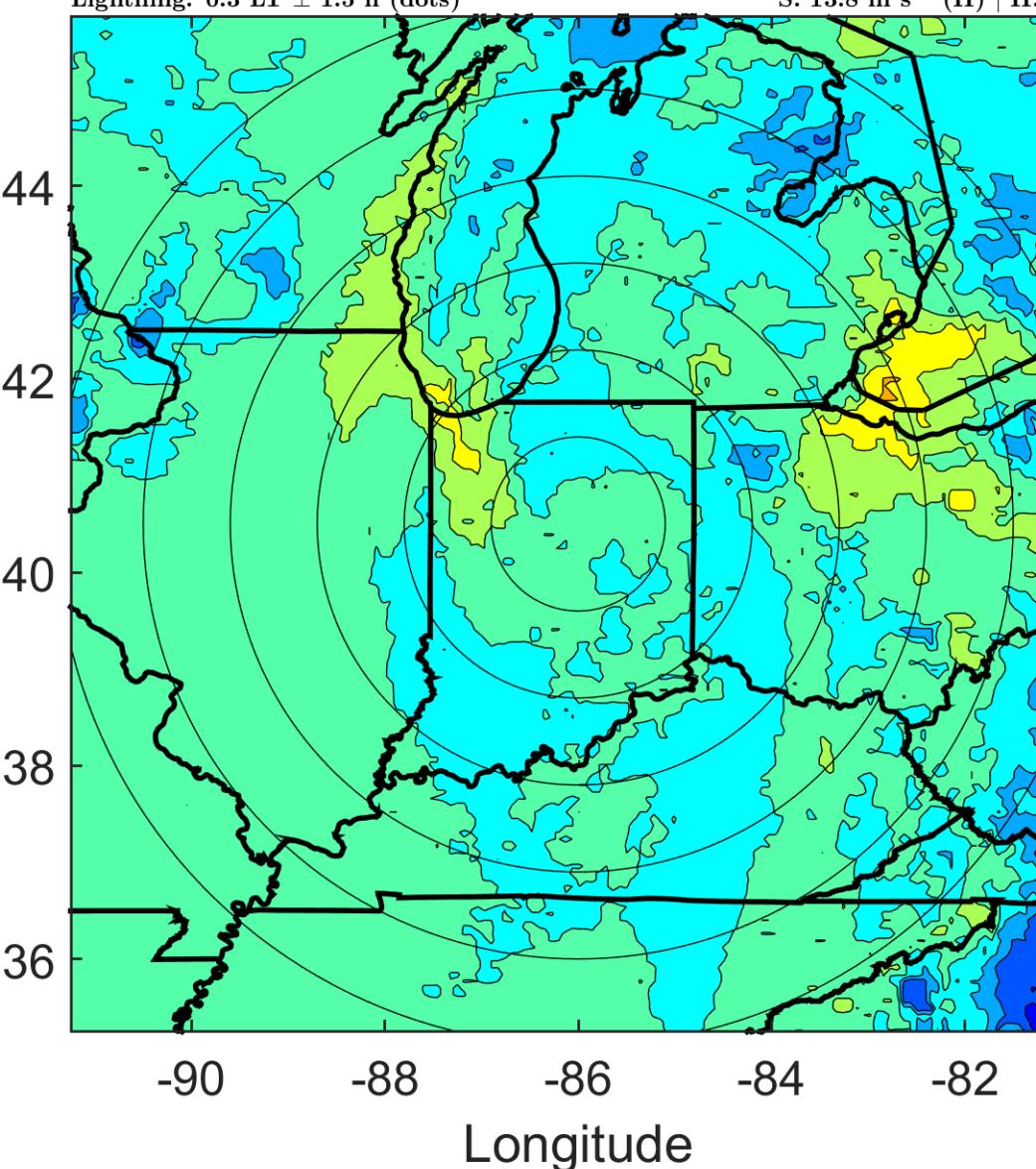
Lightning: 0.3 LT ± 1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 20 kt TD

S:  $13.8 \text{ m s}^{-1}$  (H) | H: 42°

Latitude



### IR BT & Lightning

t: 2005061309 (3.3 LT)

Lightning: 3.3 LT ± 1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 20 kt TD

S: null | H: null

Latitude

46

44

42

40

38

36

-90

-88

-86

-84

-82

Longitude



40  
20  
0  
-20  
-40  
-60  
-80

### 6-h IR BT Differences & Lightning

Δt: 2005061309 (3.3 LT) - 2005061303 (21.2 LT)

Lightning: 3.3 LT ± 1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 20 kt TD

S: null | H: null

Latitude

46

44

42

40

38

36

-90

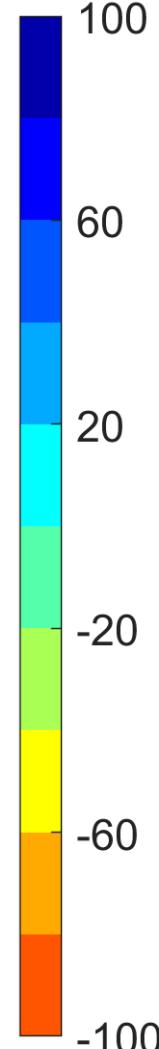
-88

-86

-84

-82

Longitude



### IR BT & Lightning

t: 2005061312 (6.3 LT)

Lightning: 6.3 LT ± 1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 20 kt LO

S: null | H: null

Latitude

46

44

42

40

38

-90

-88

-86 -84

-82

-80

Longitude



### 6-h IR BT Differences & Lightning

Δt: 2005061312 (6.3 LT) - 2005061306 (0.3 LT)

Lightning: 6.3 LT ± 1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 20 kt LO

S: null | H: null

Latitude

46

44

42

40

38

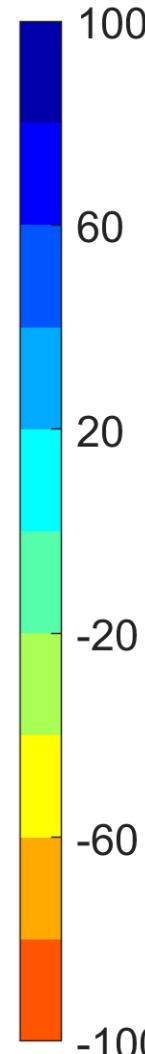
-90

-88 -86

-84 -82

-80

Longitude



### IR BT & Lightning

t: 2005061315 (9.4 LT)

Lightning: 9.4 LT ± 1.5 h (dots)

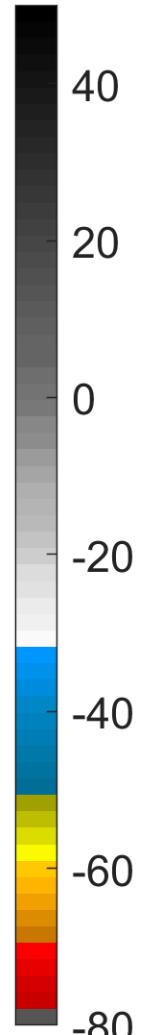
LAND EFFECTS  
01L (ARLENE) | 20 kt LO  
S: null | H: null

Latitude

46  
44  
42  
40  
38

-88 -86 -84 -82 -80

Longitude



### 6-h IR BT Differences & Lightning

Δt: 2005061315 (9.4 LT) - 2005061309 (3.3 LT)

Lightning: 9.4 LT ± 1.5 h (dots)

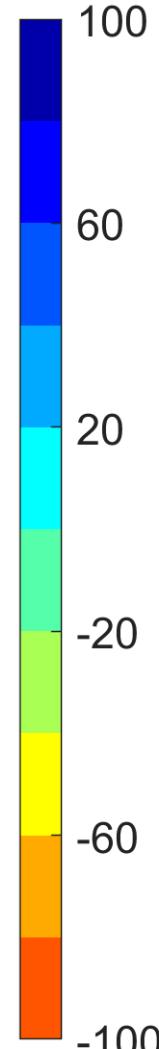
LAND EFFECTS  
01L (ARLENE) | 20 kt LO  
S: null | H: null

Latitude

46  
44  
42  
40  
38

-88 -86 -84 -82 -80

Longitude



### IR BT & Lightning

t: 2005061318 (12.4 LT)

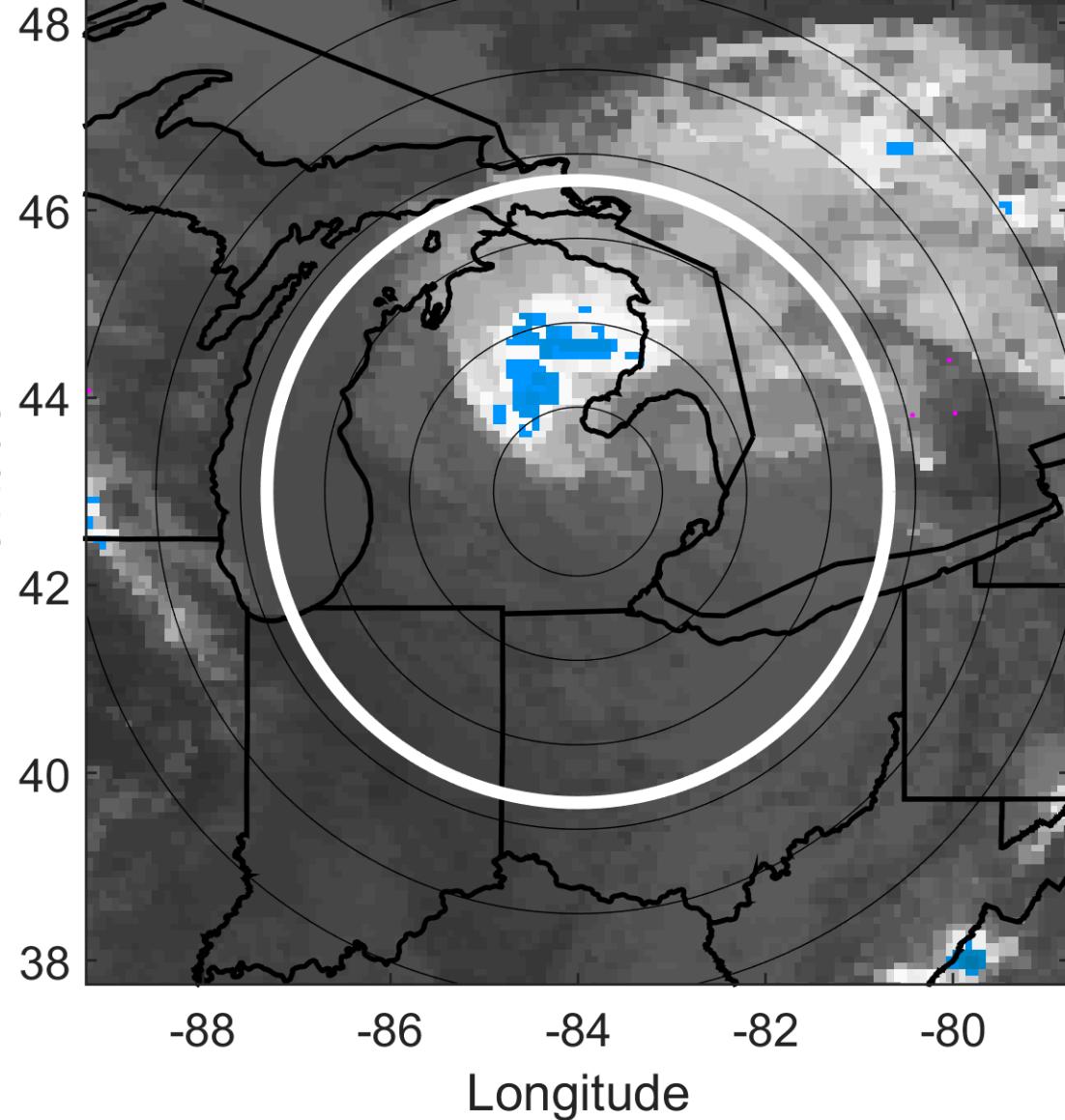
Lightning: 12.4 LT ± 1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 20 kt EX

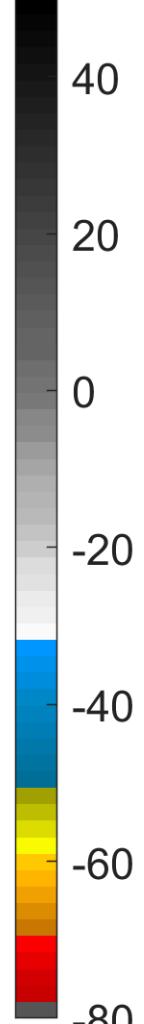
S: null | H: null

Latitude



-88 -86 -84 -82 -80

Longitude



### 6-h IR BT Differences & Lightning

Δt: 2005061318 (12.4 LT) - 2005061312 (6.3 LT)

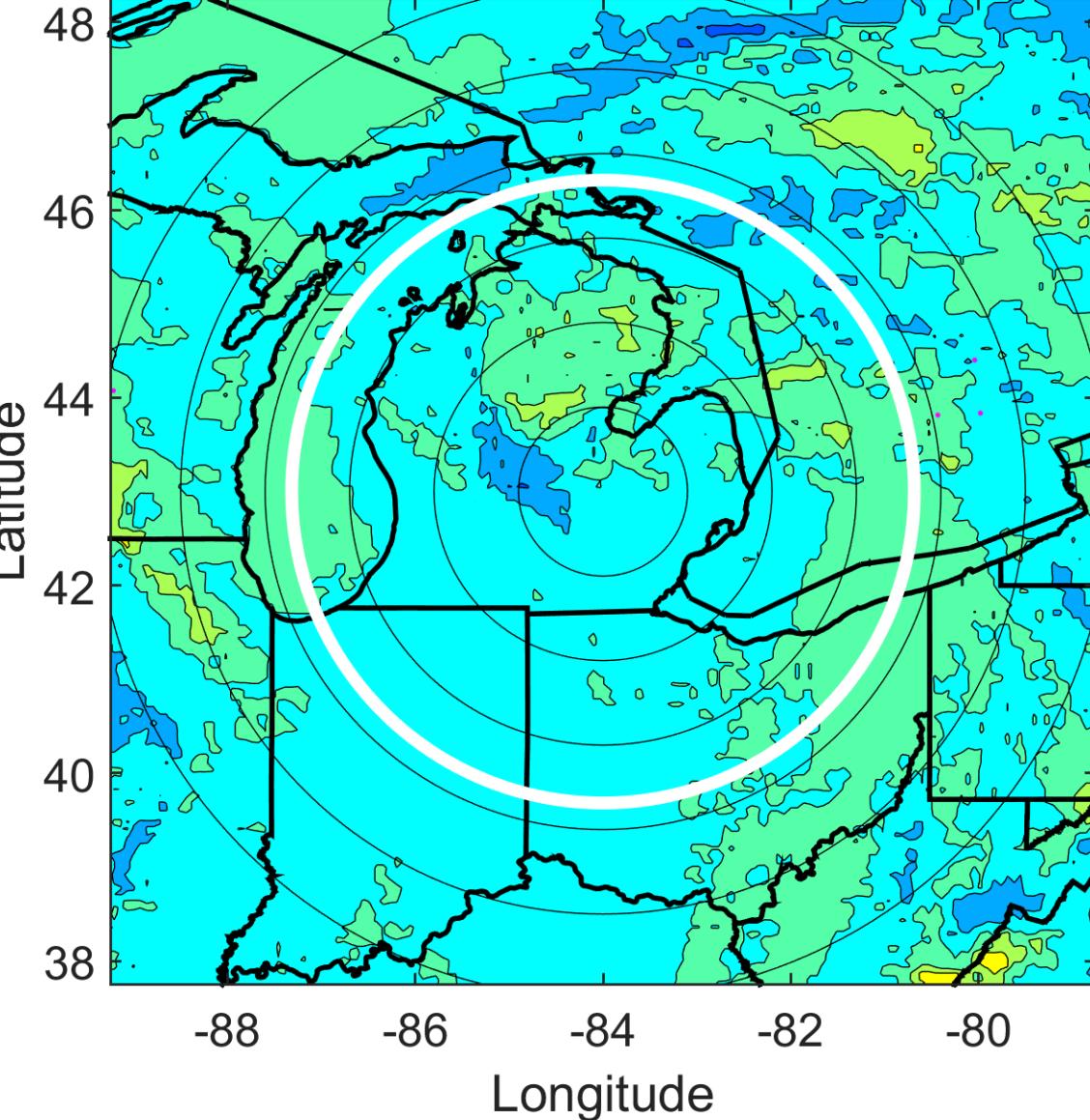
Lightning: 12.4 LT ± 1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 20 kt EX

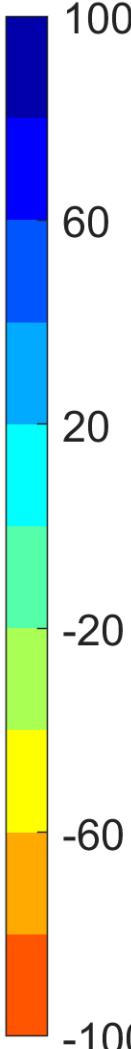
S: null | H: null

Latitude



-88 -86 -84 -82 -80

Longitude



### IR BT & Lightning

t: 2005061321 (15.5 LT)

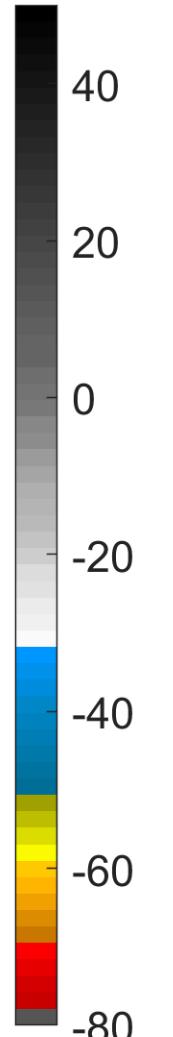
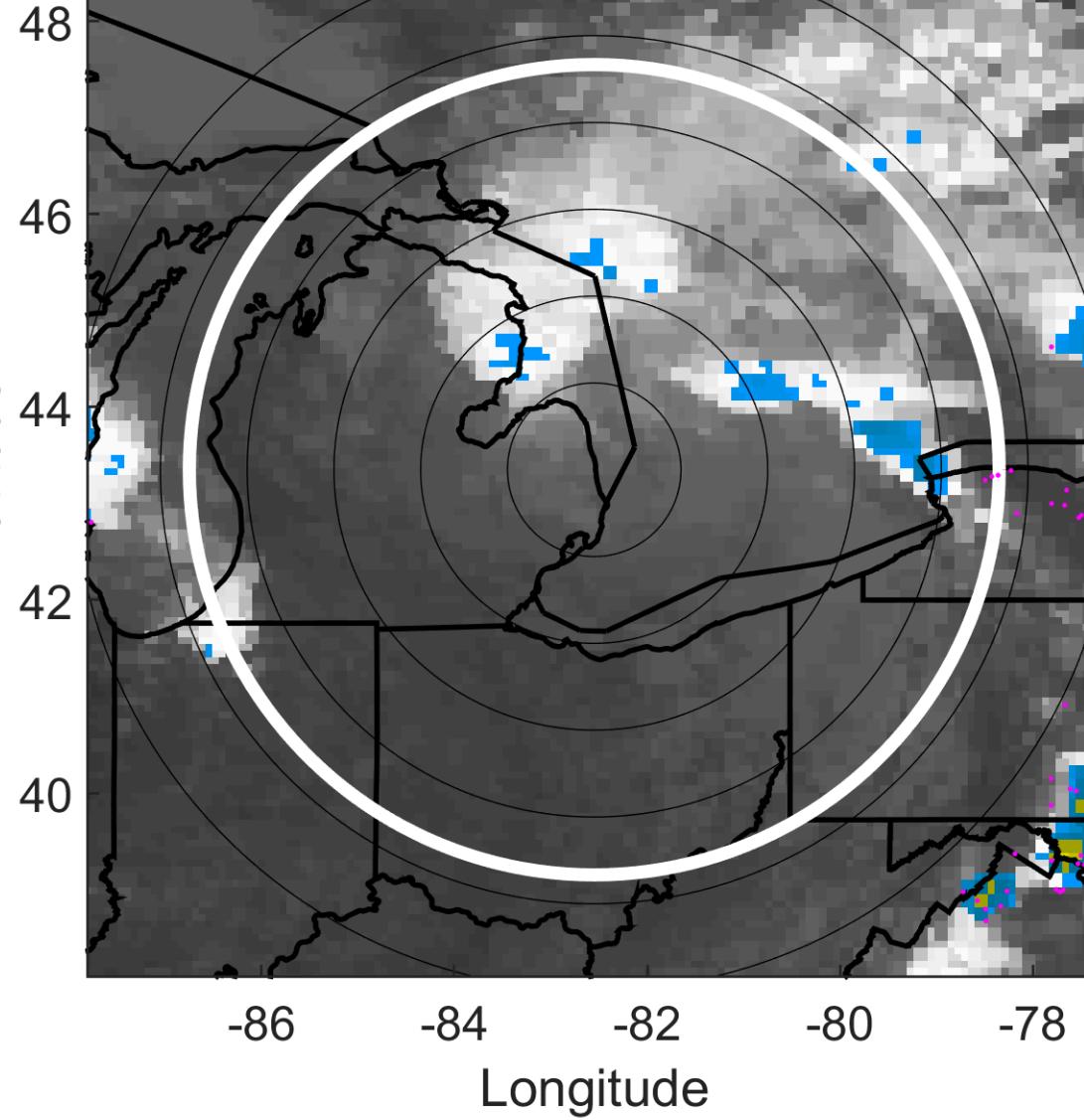
Lightning: 15.5 LT ± 1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 20 kt EX

S: null | H: null

Latitude



### 6-h IR BT Differences & Lightning

Δt: 2005061321 (15.5 LT) - 2005061315 (9.4 LT)

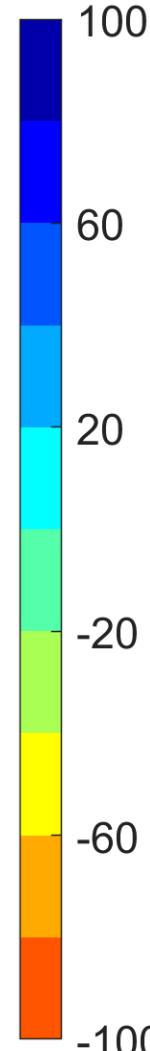
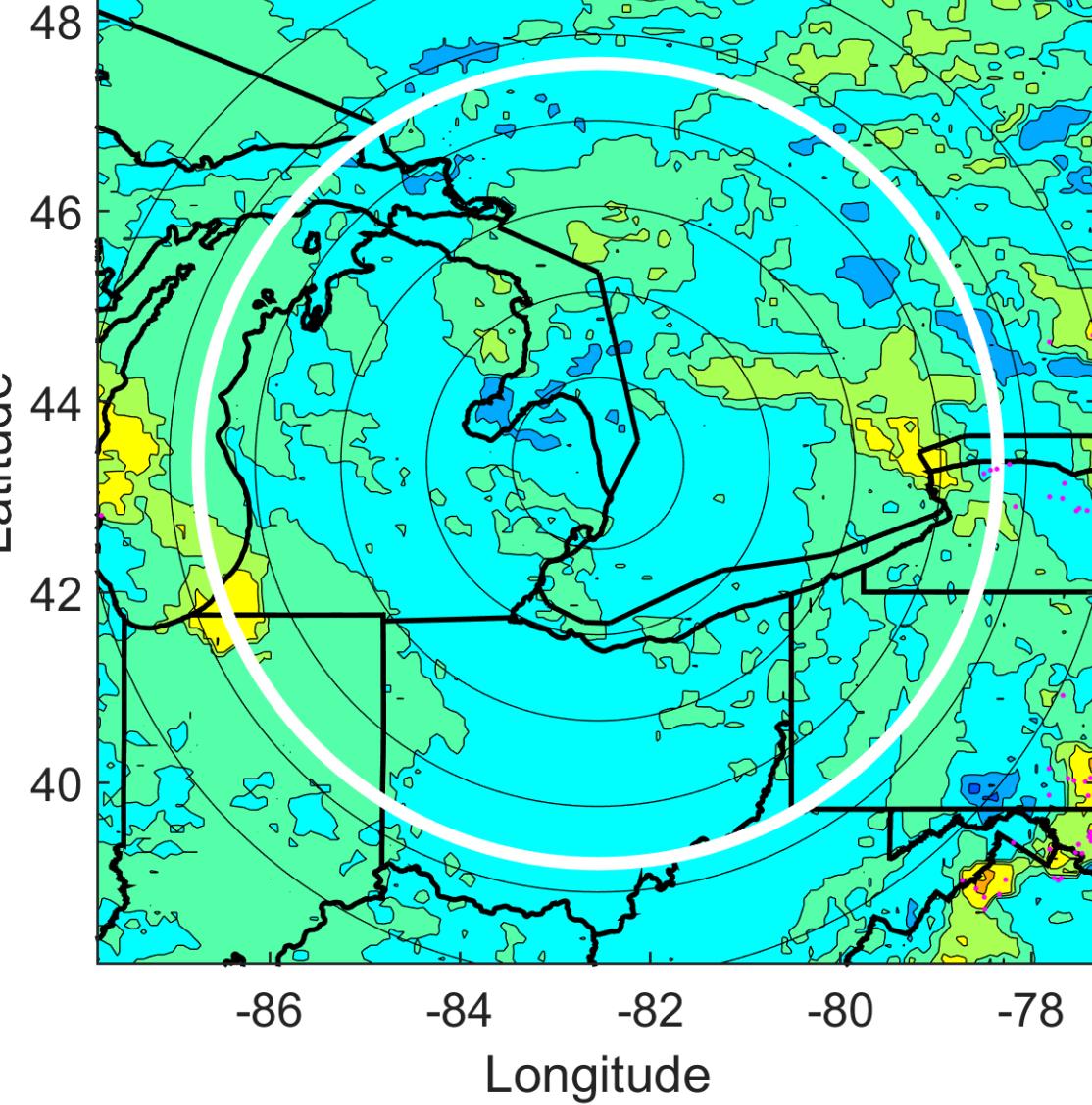
Lightning: 15.5 LT ± 1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 20 kt EX

S: null | H: null

Latitude



### IR BT & Lightning

t: 2005061400 (18.6 LT)

Lightning: 18.6 LT ± 1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 20 kt EX

S: null | H: null

Latitude

48

46

44

42

40

-86

-84

-82

-80

-78

-76

Longitude



### 6-h IR BT Differences & Lightning

Δt: 2005061400 (18.6 LT) - 2005061318 (12.4 LT)

Lightning: 18.6 LT ± 1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 20 kt EX

S: null | H: null

Latitude

48

46

44

42

40

-86

-84

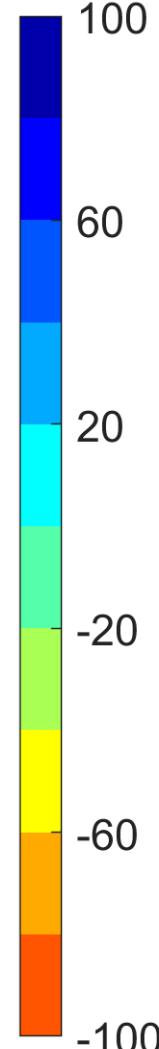
-82

-80

-78

-76

Longitude



### IR BT & Lightning

t: 2005061403 (21.7 LT)

Lightning: 21.7 LT ± 1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 20 kt EX

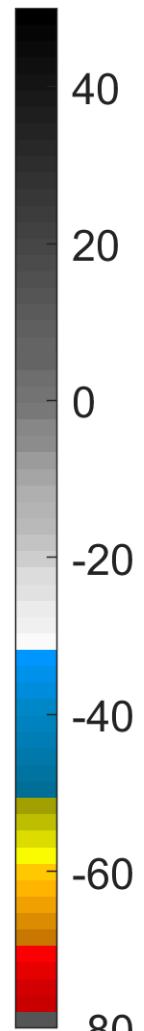
S: null | H: null

Latitude

48  
46  
44  
42  
40

-84 -82 -80 -78 -76

Longitude



### 6-h IR BT Differences & Lightning

Δt: 2005061403 (21.7 LT) - 2005061321 (15.5 LT)

Lightning: 21.7 LT ± 1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 20 kt EX

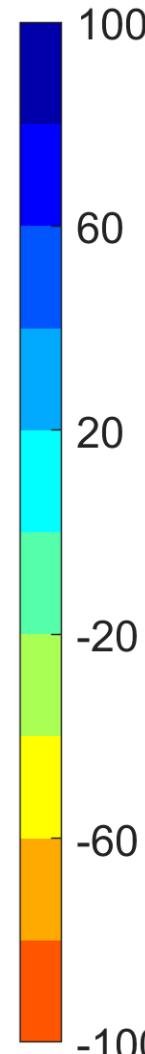
S: null | H: null

Latitude

48  
46  
44  
42  
40

-84 -82 -80 -78 -76

Longitude



### IR BT & Lightning

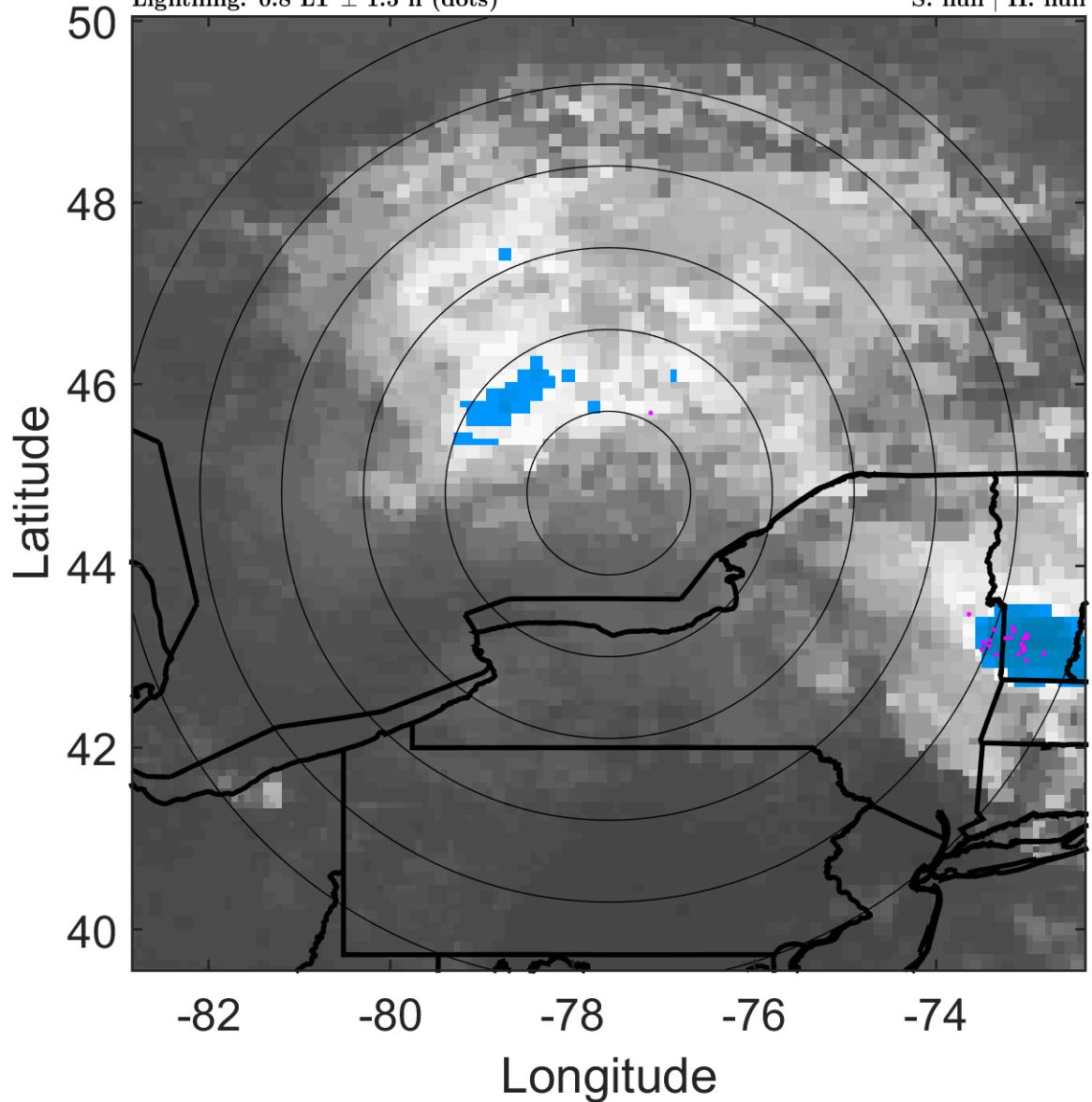
t: 2005061406 (0.8 LT)

Lightning: 0.8 LT ± 1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 20 kt EX

S: null | H: null



### 6-h IR BT Differences & Lightning

Δt: 2005061406 (0.8 LT) - 2005061400 (18.6 LT)

Lightning: 0.8 LT ± 1.5 h (dots)

### LAND EFFECTS

01L (ARLENE) | 20 kt EX

S: null | H: null

