American Airlines Flight 587

Basic Information

- Belle Harbor, New York
- November 12, 2001, 0916 EST
- American Airlines Airbus A300-600R
- 260 Passenger Casualties
- 5 Ground Casualties
- JFK to Santo Domingo, Dominican Rep.

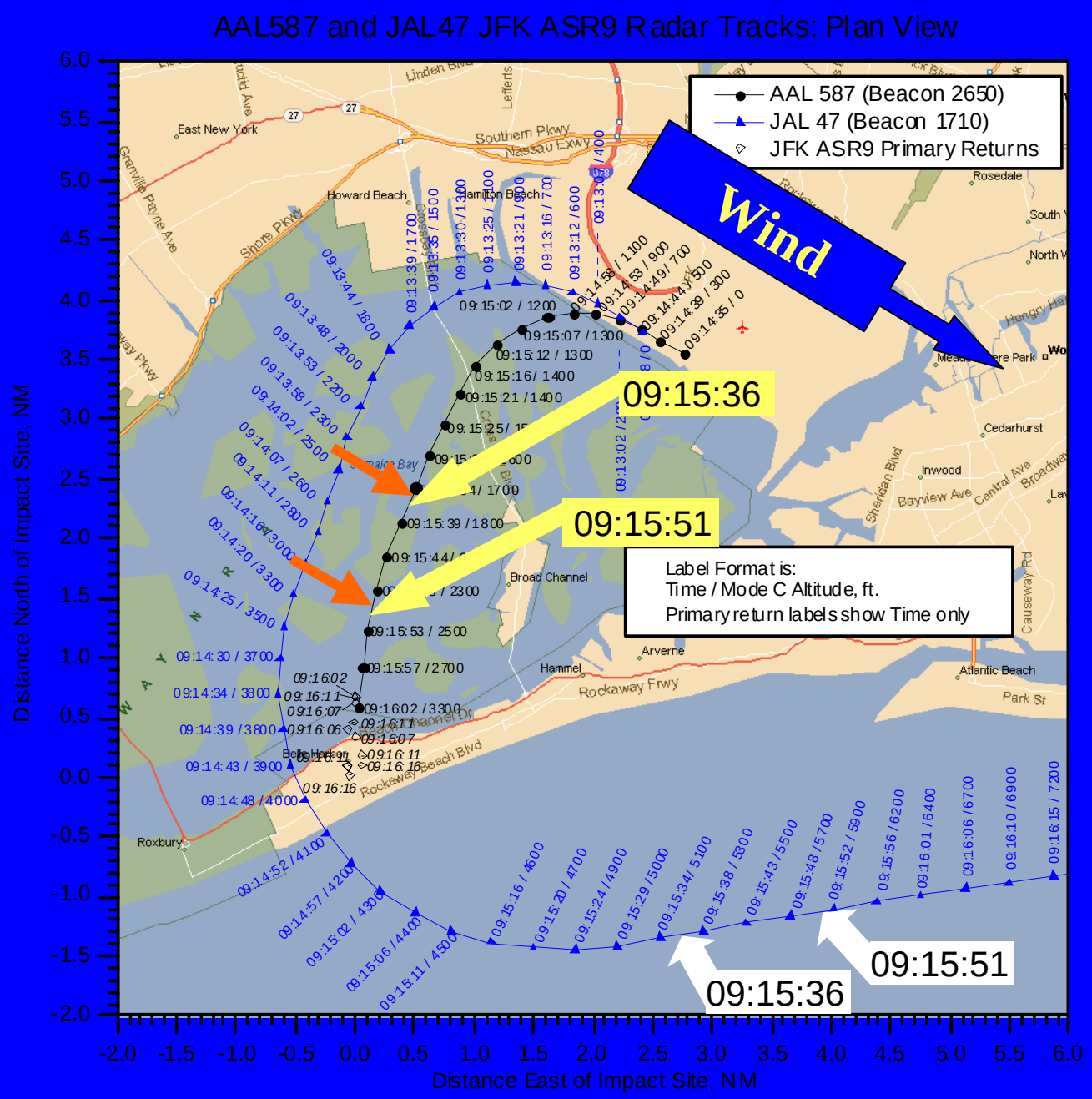
Vert Stab
JFK
Engine
Engine
Main Wreckage

Investigators

• Site Stakedown	Paul Cox
• Site Stakedown	David Musio
• Witnesses	Luke Schiada
• Operations	David Ivey
• Human Perf.	Bart Elias
• Human Perf.	Malcolm Brenner
• Aircraft Perf.	John O’Callaghan

• Structures	Brian Murphy
• Structures	Matt Fox
• Systems	Steve Magladry
• Systems	Scott Warren
• Air Traf Cont.	Scott Dunham
• Powerplants	James Hookey
• FDR	Cassandra Johnson
• CVR	Al Reitan
• Acc Rep	Pierre Jouniaux

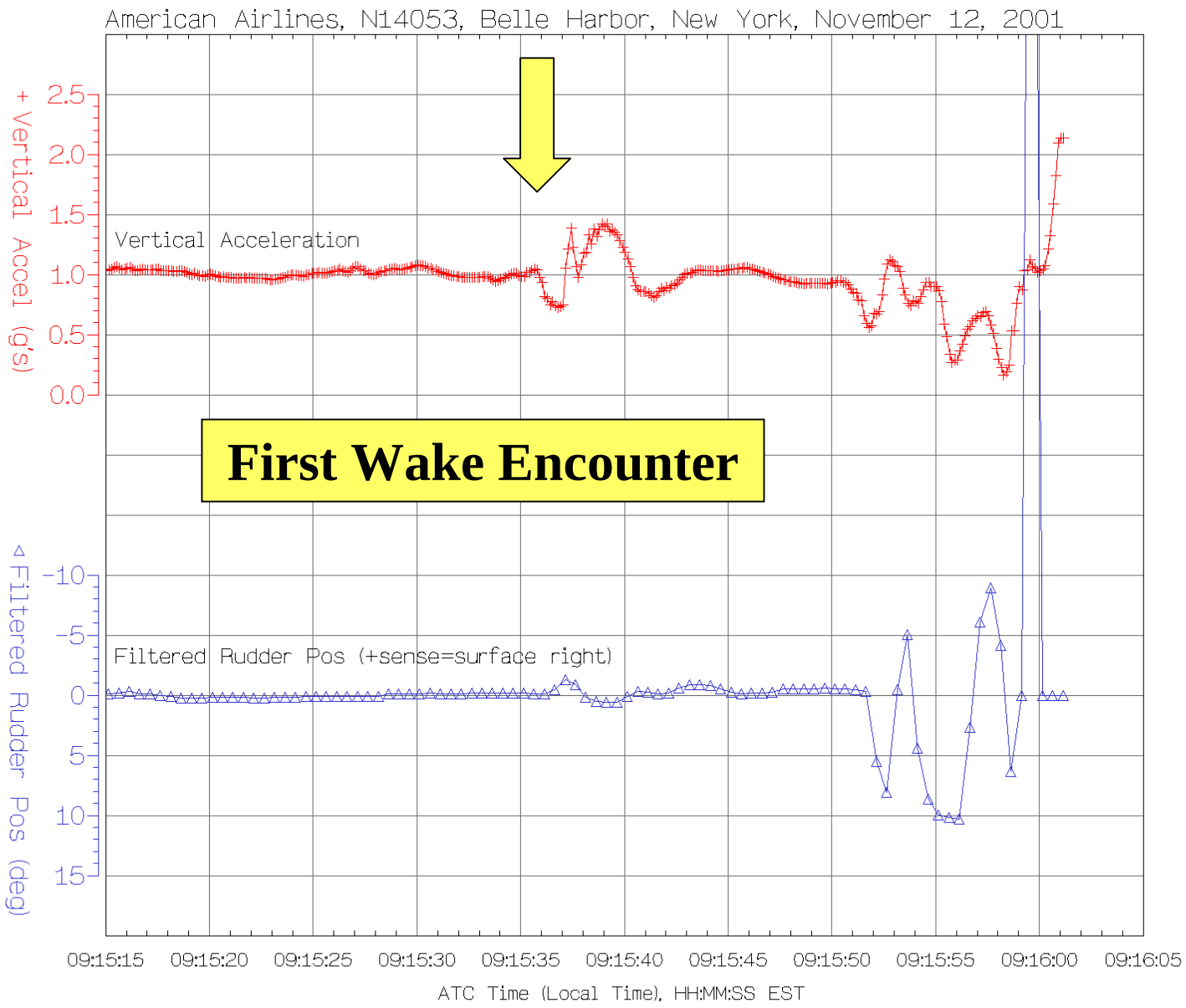
• Acc Rep	Bernard Bourdon
• Maint. Records	Frank McGill
• Weather	Greg Salotatolo
• FDR	Dennis Grossi
• Sound Spectrum	James Cash
• Fault Tree	Dana Schulze
• Animation/Video	Doug Brazy
	Dan Venne
	Kevin Renze

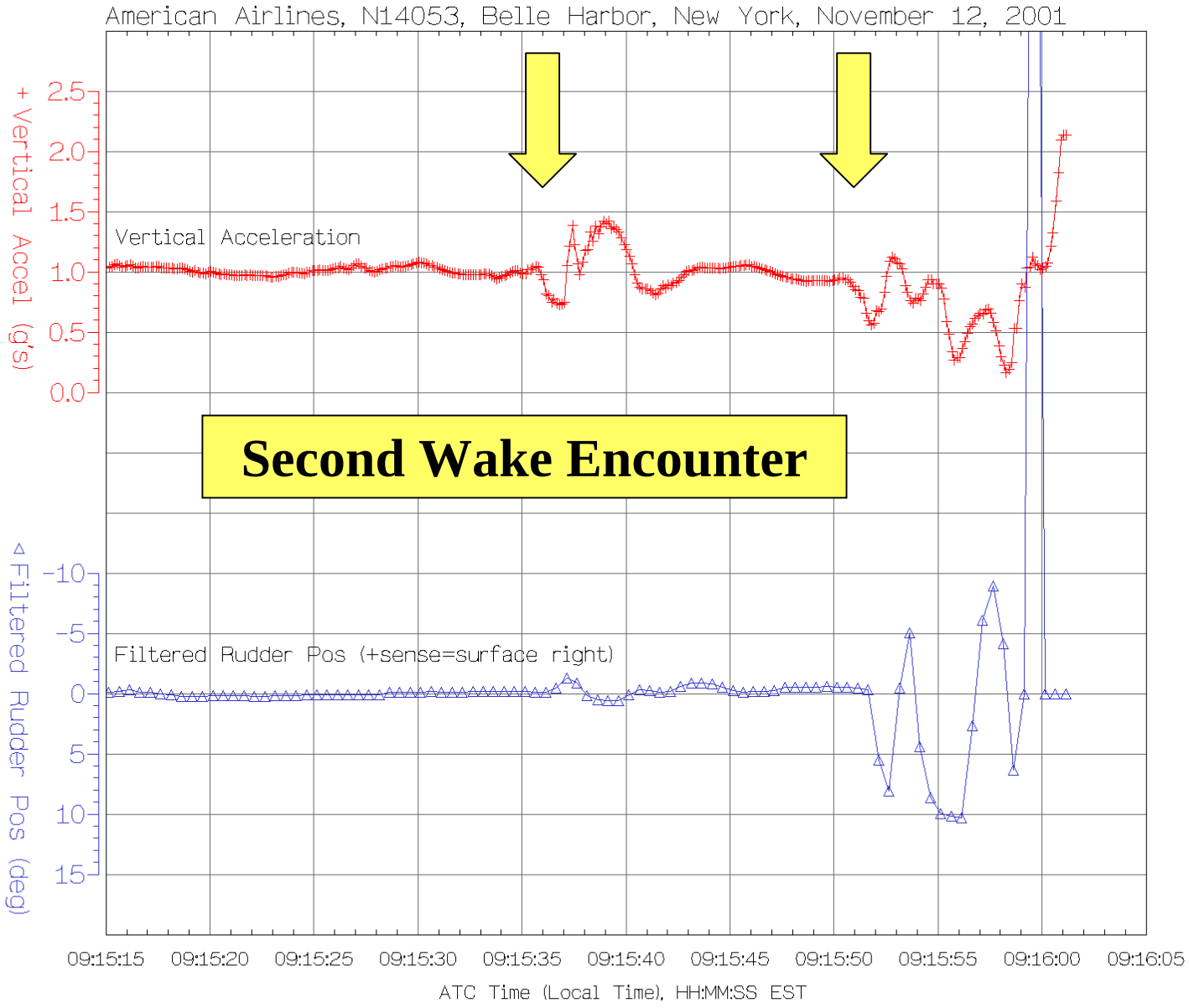


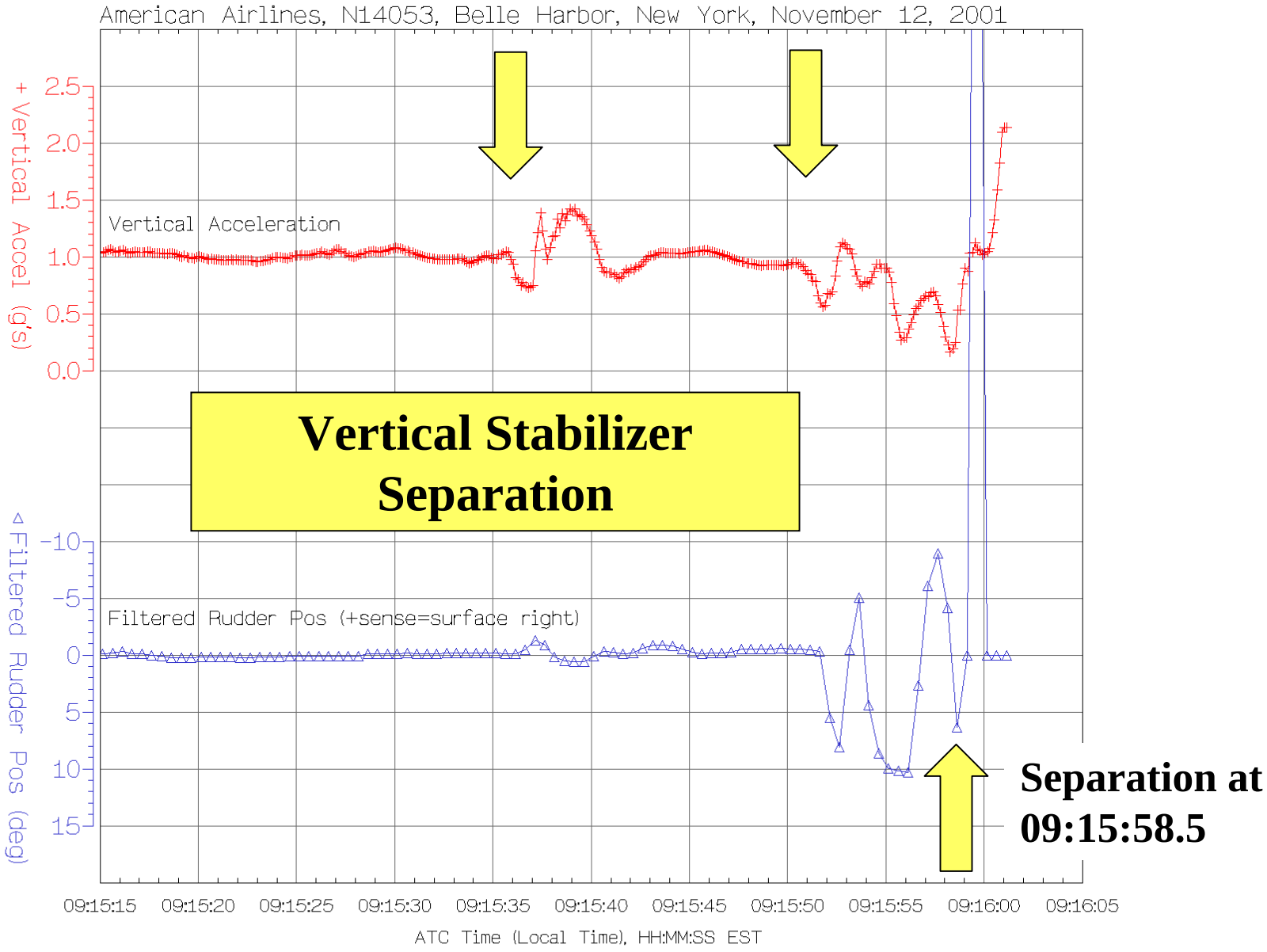
Wake Travel Direction

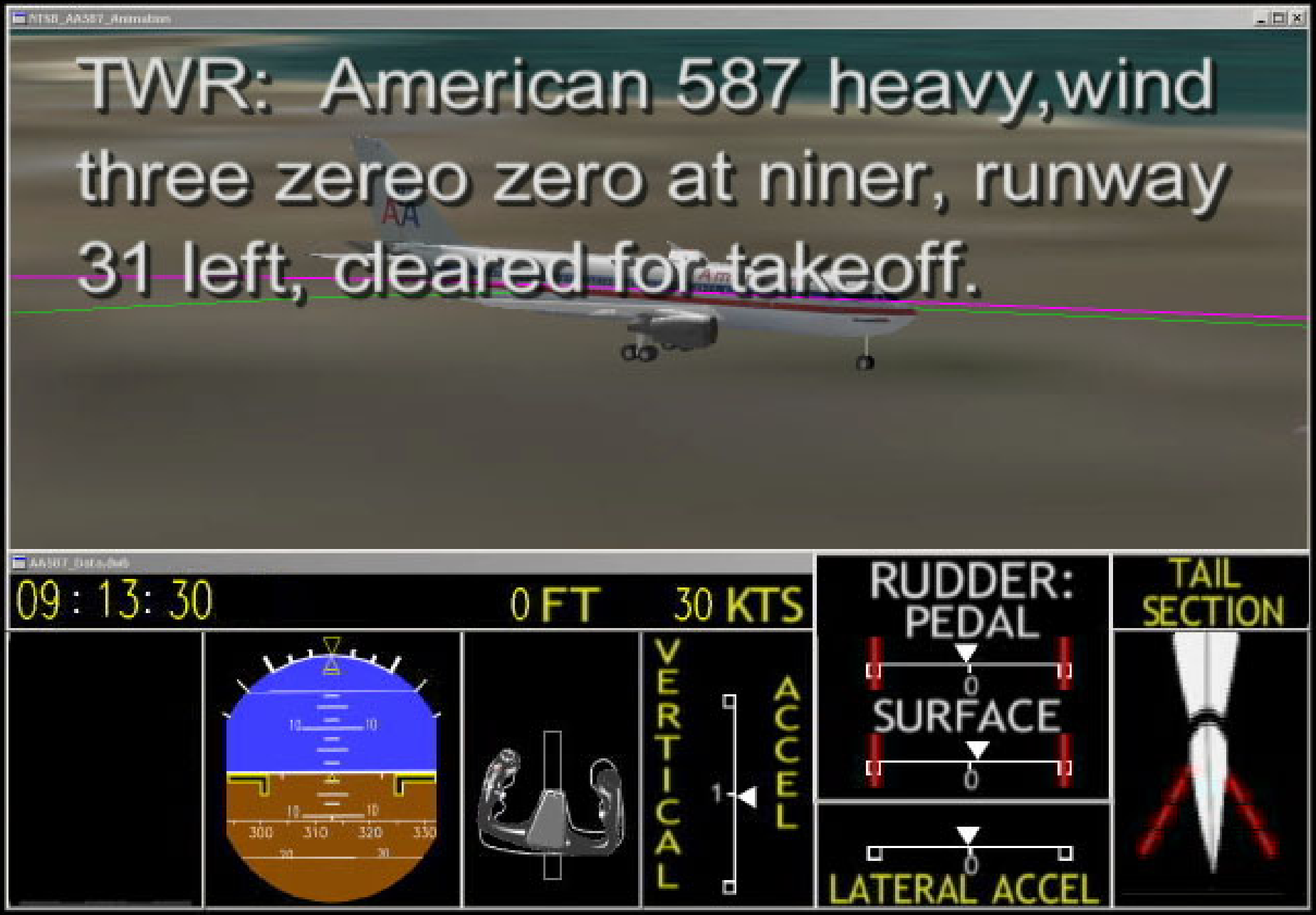
Wake Encounters

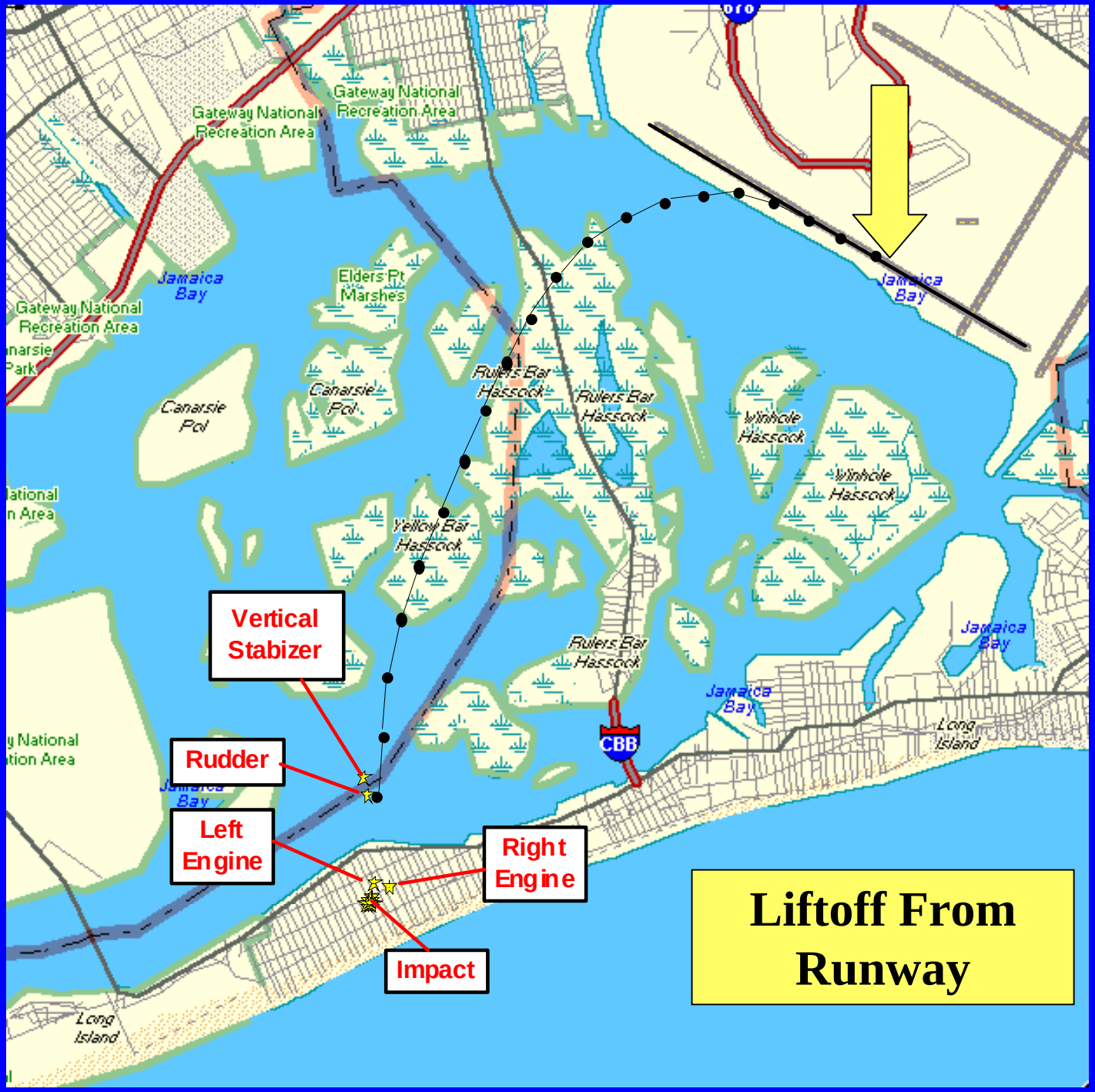
JAL Position at Time of Encounters

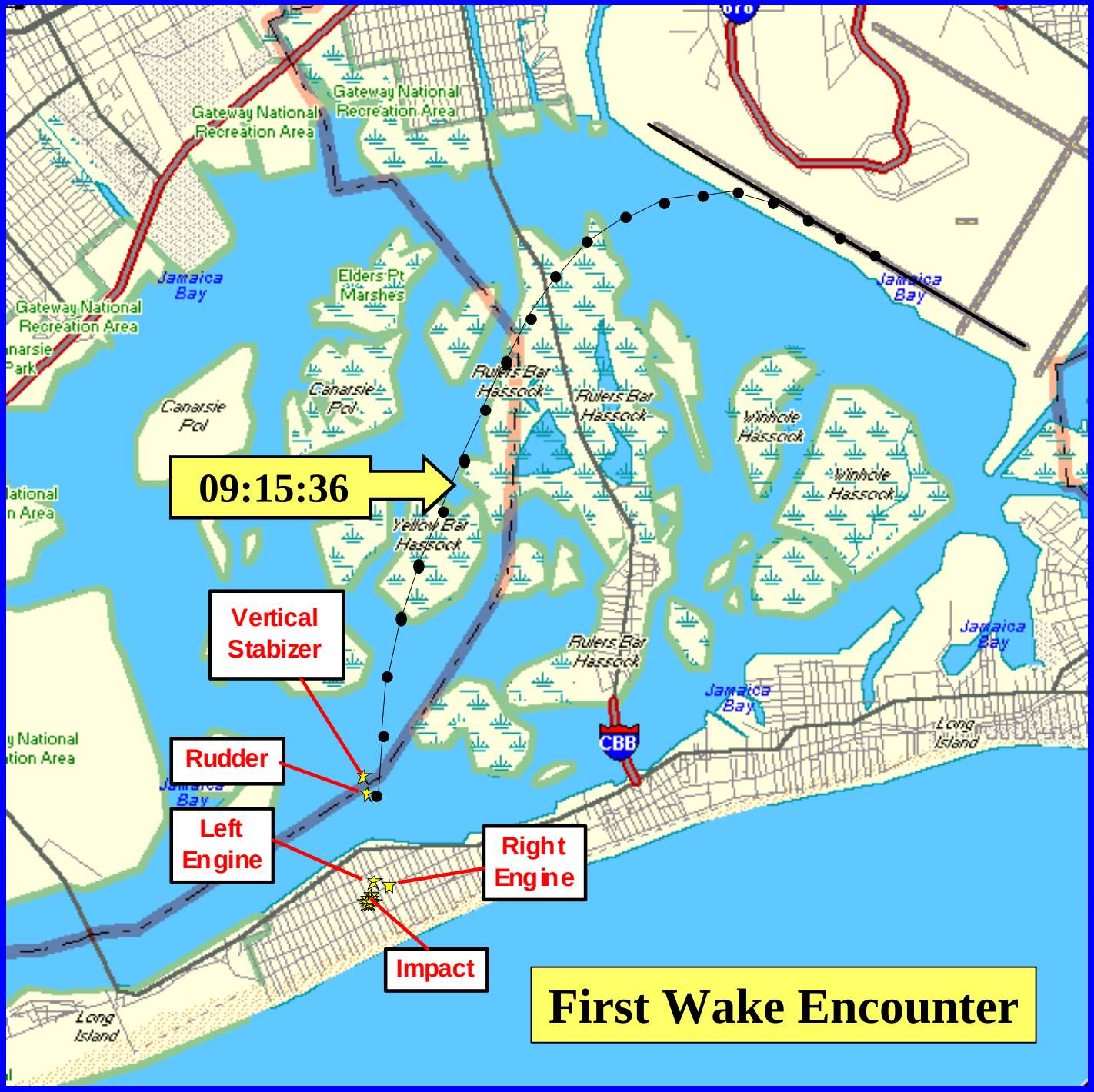

American Airlines, N14053, Belle Harbor, New York, November 12, 2001
+ Vertical Accel (g's)
2.5
2.0
1.5
1.0
0.5
0.0
Vertical Acceleration
First Wake Encounter
△ Filtered Rudder Pos (deg)
-10
-5
0
5
10
15
Filtered Rudder Pos (+sense=surface right)
09:15:15
09:15:20
09:15:25
09:15:30
09:15:35
09:15:40
09:15:45
09:15:50
09:15:55
09:16:00
09:16:05
ATC Time (Local Time), HH:MM:SS EST

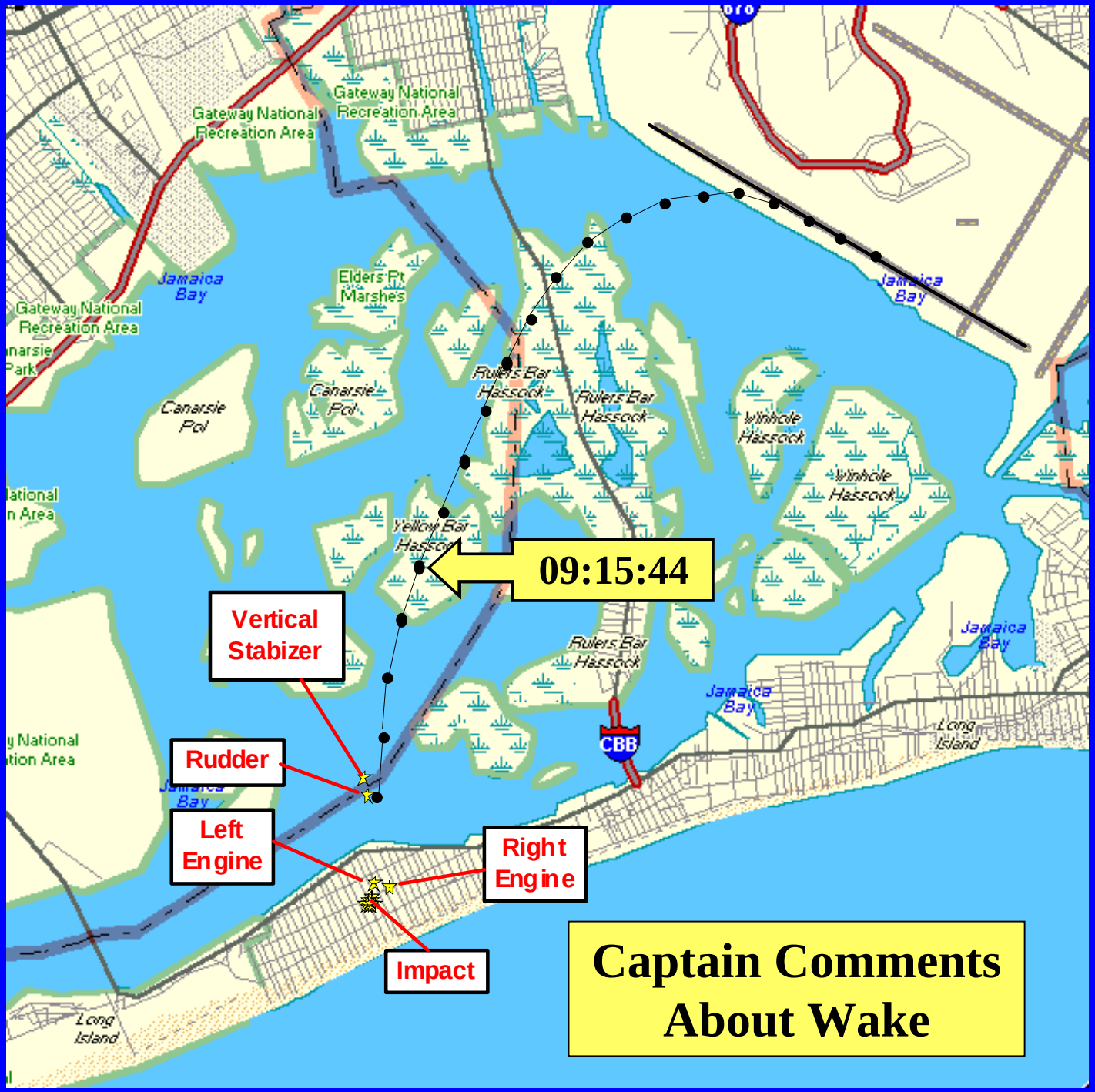

American Airlines, N14053, Belle Harbor, New York, November 12, 2001
+ Vertical Accel (g's)
2.5
2.0
1.5
1.0
0.5
0.0
Vertical Acceleration
Second Wake Encounter
△ Filtered Rudder Pos (deg)
-10
-5
0
5
10
15
Filtered Rudder Pos (+sense=surface right)
09:15:15
09:15:20
09:15:25
09:15:30
09:15:35
09:15:40
09:15:45
09:15:50
09:15:55
09:16:00
09:16:05
ATC Time (Local Time), HH:MM:SS EST

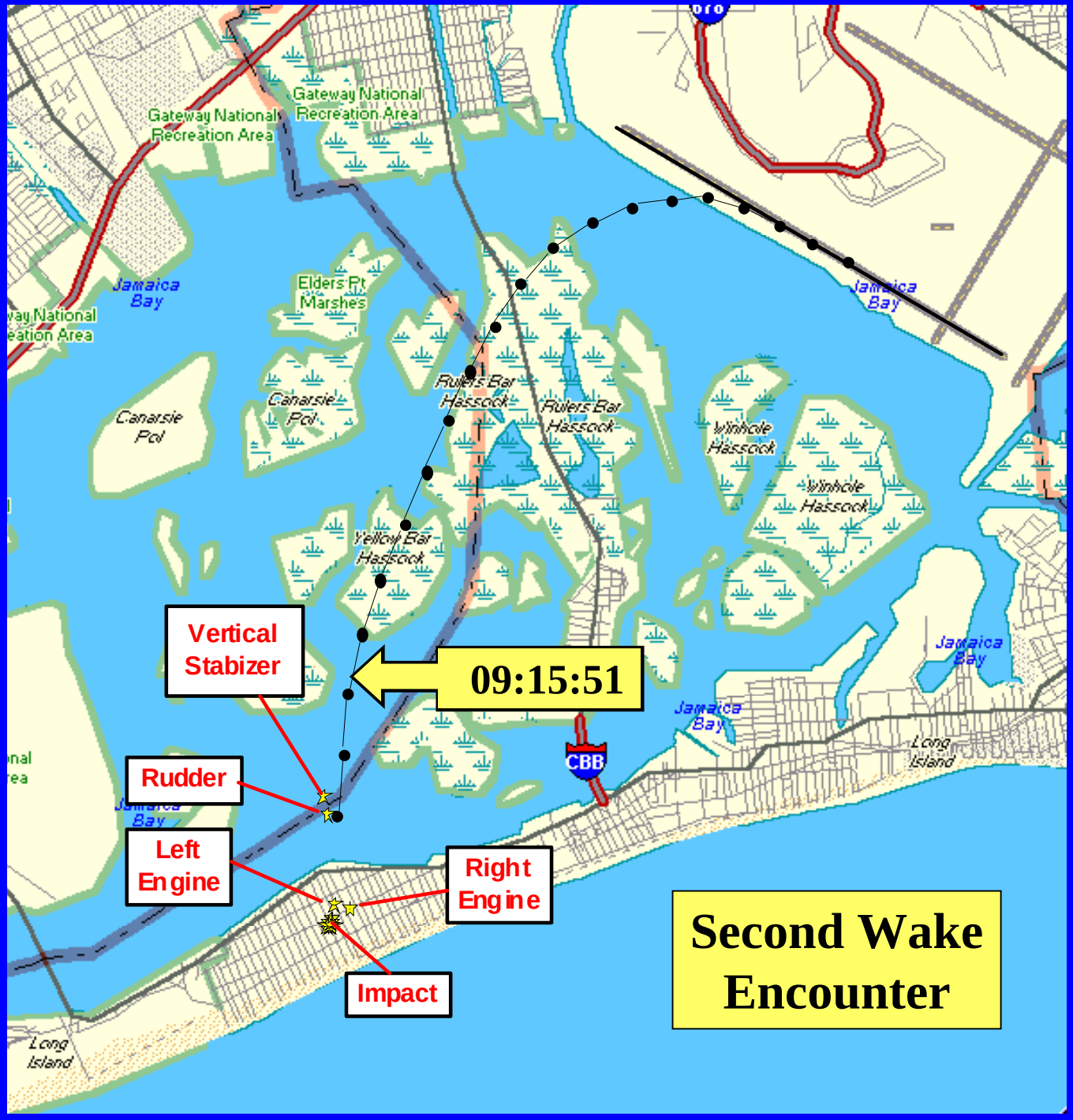

American Airlines, N14053, Belle Harbor, New York, November 12, 2001
+ Vertical Accel (g's)
2.5
2.0
1.5
1.0
0.5
0.0
Vertical Acceleration
Vertical Stabilizer Separation
△ Filtered Rudder Pos (deg)
-10
-5
0
5
10
15
Filtered Rudder Pos (+sense=surface right)
Separation at 09:15:58.5
09:15:15
09:15:20
09:15:25
09:15:30
09:15:35
09:15:40
09:15:45
09:15:50
09:15:55
09:16:00
09:16:05
ATC Time (Local Time), HH:MM:SS EST

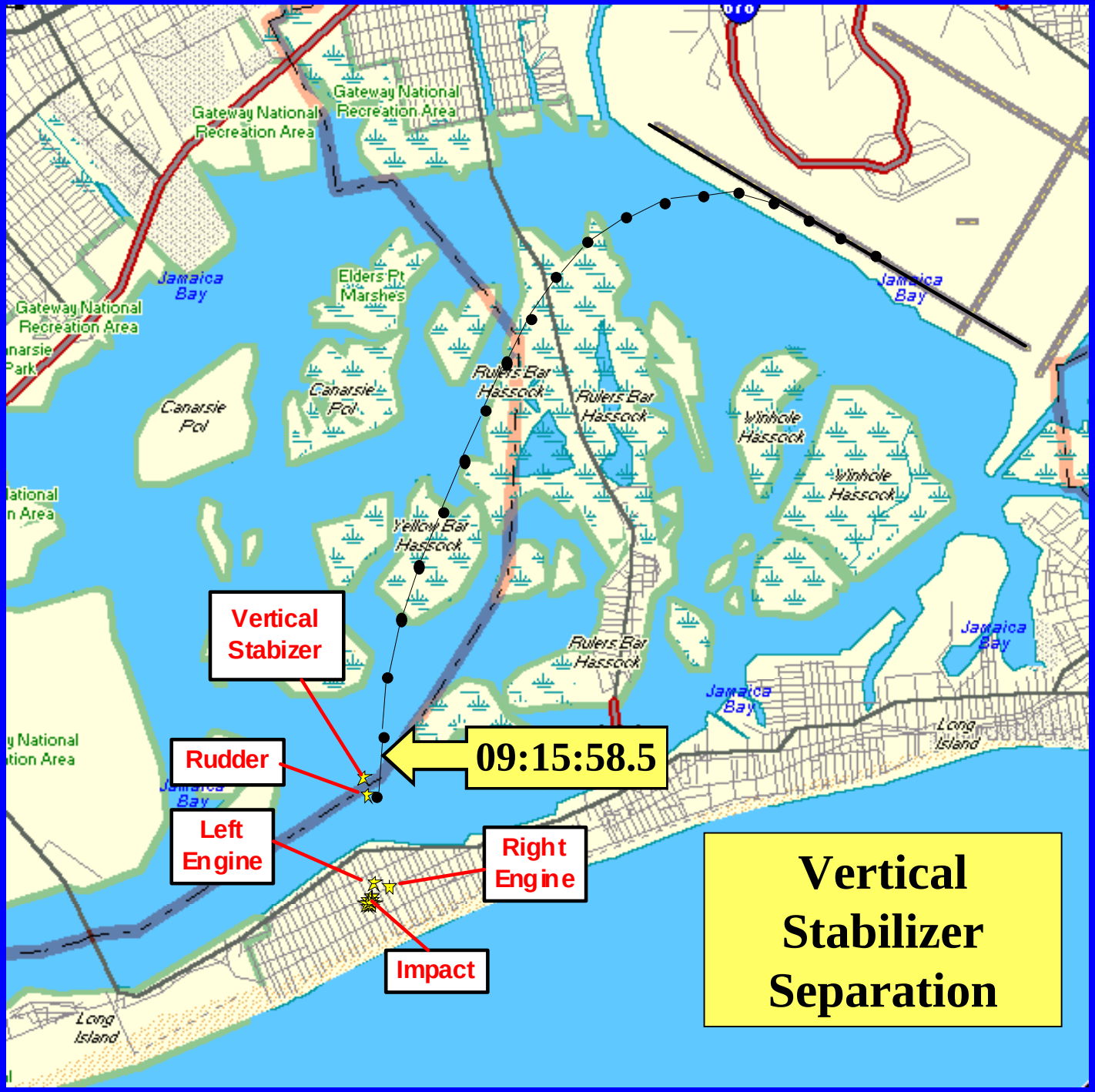

TWR: American 587 heavy,wind three zereo zero at niner, runway 31 left, cleared for takeoff.
09 : 13: 30
0 FT
30 KTS
VERTICAL ACCEL
RUDDER: PEDAL
SURFACE
LATERAL ACCEL
TAIL SECTION

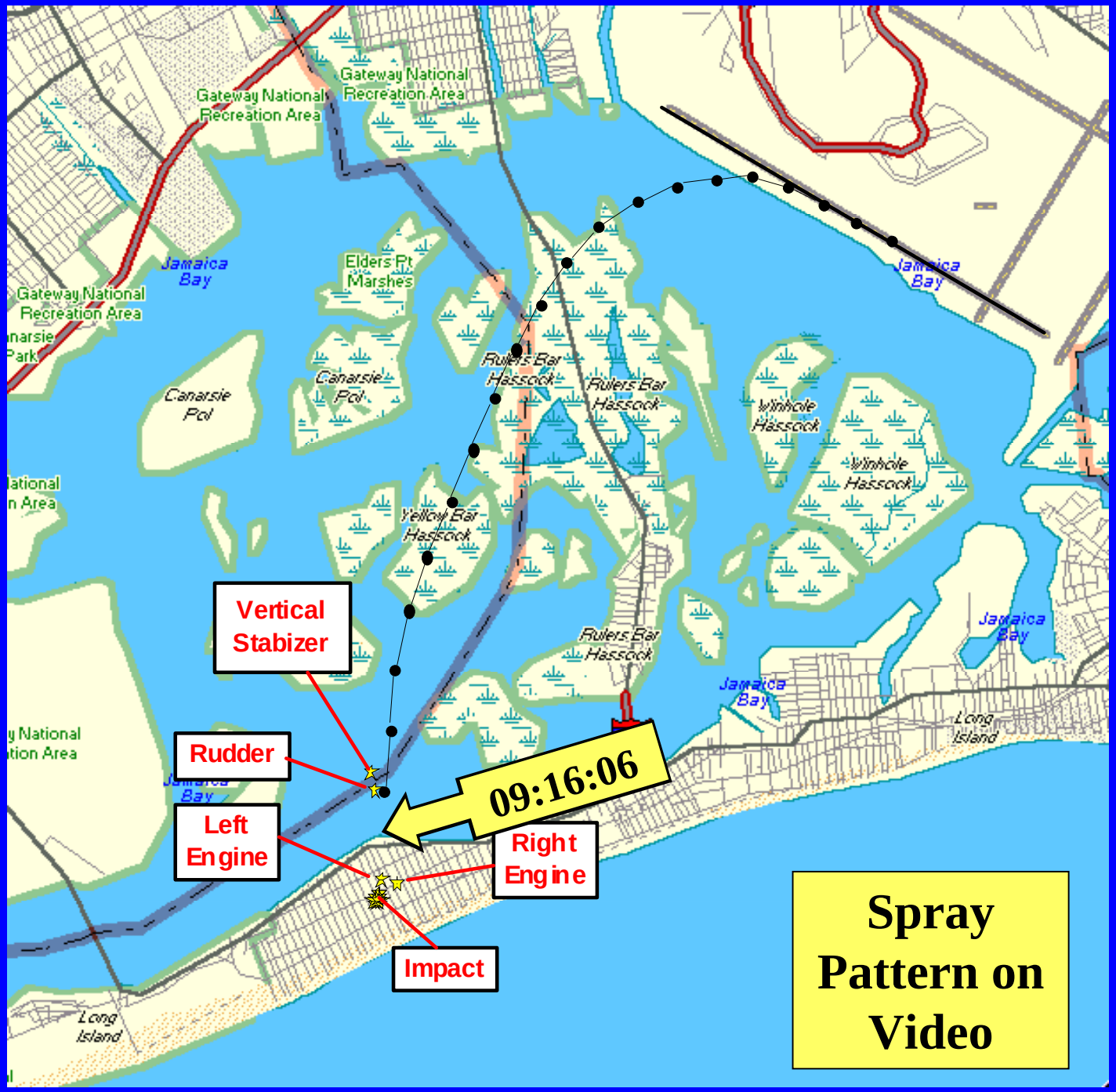

Gateway National Recreation Area
Gateway National Recreation Area
Gateway National Recreation Area
Jamaica Bay
Elders Pt Marshes
Canarsie Pol
Canarsie Pol
Rulers Bar Hassock
Rulers Bar Hassock
Yellow Bar Hassock
Rulers Bar Hassock
Jamaica Bay
Jamaica Bay
Jamaica Bay
Jamaica Bay
CBB
Long Island
Long Island
Vertical Stabizer
Rudder
Left Engine
Right Engine
Impact
Liftoff From Runway


Gateway National Recreation Area
Gateway National Recreation Area
Gateway National Recreation Area
Jamaica Bay
Elders Pt Marshes
Canarsie Pol
Canarsie Pol
Rulers Bar Hassock
Rulers Bar Hassock
Rulers Bar Hassock
Yellow Bar Hassock
Winhole Hassock
Winhole Hassock
Jamaica Bay
Jamaica Bay
Jamaica Bay
Jamaica Bay
CBB
Long Island
Long Island
09:15:36
Vertical Stabizer
Rudder
Left Engine
Right Engine
Impact
First Wake Encounter


Gateway National Recreation Area
Gateway National Recreation Area
Gateway National Recreation Area
Jamaica Bay
Elders Pt Marshes
Canarsie Pol
Canarsie Pol
Rulers Bar Hassock
Rulers Bar Hassock
Rulers Bar Hassock
Winhole Hassock
Winhole Hassock
Yellow Bar Hassock
09:15:44
Vertical Stabizer
Rudder
Left Engine
Right Engine
Impact
CBB
Jamaica Bay
Jamaica Bay
Jamaica Bay
Jamaica Bay
Long Island
Long Island
Captain Comments About Wake


Gateway National Recreation Area
Gateway National Recreation Area
Jamaica Bay
Elders Pt Marshes
Canarsie Pol
Canarsie Pol
Rulers Bar Hassock
Rulers Bar Hassock
Yellow Bar Hassock
Winkle Hassock
Winkle Hassock
Jamaica Bay
Jamaica Bay
Jamaica Bay
Jamaica Bay
Long Island
Long Island
CBB
Vertical Stabizer
09:15:51
Rudder
Left Engine
Right Engine
Impact
Second Wake Encounter


Gateway National Recreation Area
Gateway National Recreation Area
Gateway National Recreation Area
Jamaica Bay
Elders Pt Marshes
Canarsie Pol
Canarsie Pol
Rulers Bar Hassock
Rulers Bar Hassock
Yellow Bar Hassock
Rulers Bar Hassock
Jamaica Bay
Jamaica Bay
Jamaica Bay
Jamaica Bay
Long Island
Long Island
Vertical Stabizer
Rudder
Left Engine
Right Engine
Impact
09:15:58.5
Vertical Stabilizer Separation


Gateway National Recreation Area
Gateway National Recreation Area
Jamaica Bay
Elders Pt Marshes
Gateway National Recreation Area
Canarsie Pol
Canarsie Pol
Rulers Bar Hassock
Rulers Bar Hassock
Winhole Hassock
Winhole Hassock
Yellow Bar Hassock
Rulers Bar Hassock
Jamaica Bay
Jamaica Bay
Jamaica Bay
Long Island
Long Island
Vertical Stabizer
Rudder
Left Engine
Right Engine
Impact
09:16:06
Spray Pattern on Video

Gateway National Recreation Area
Gateway National Recreation Area
Jamaica Bay
Elders Pt Marshes
Gateway National Recreation Area
Canarsie Pol
Canarsie Pol
Rulers Bar Hassock
Rulers Bar Hassock
Jamaica Bay
Linhole Hassock
Linhole Hassock
Yellow Bar Hassock
Vertical Stabizer
Rulers Bar Hassock
Jamaica Bay
Jamaica Bay
Jamaica Bay
CBB
Long Island
Rudder
Left Engine
Right Engine
Impact
Long Island
Aircraft Wreckage Locations