National Weather Service Melbourne, Florida

http://www.srh.noaa.gov/mlb/

NWS MLB Damage Survey
**Tornado and Straight Line Wind Damage**
Sunday April 14, 2013

A warm front lifted into North Florida early on Sunday April 14, leaving East Central Florida in a warm, moist and unstable air mass. Wind shear became enhanced later in the day as the west coast sea breeze pushed across the peninsula and increased the storm relative helicity. The result was two tornado touchdowns, straight line wind damage and locally heavy rain amounts, especially where persistent training of radar echoes occurred.
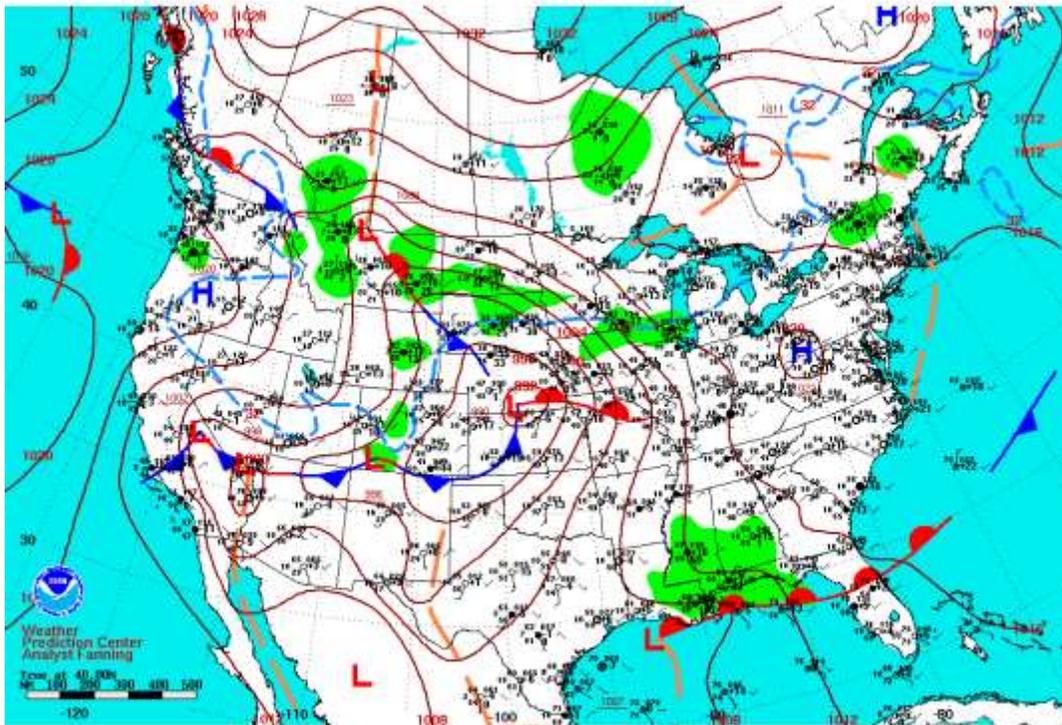
Surface Weather Map and Station Weather at 7:00 A.M. E.S.T.

Radar Images from KMLB WSR-88D (base reflectivity top, storm relative velocity bottom):
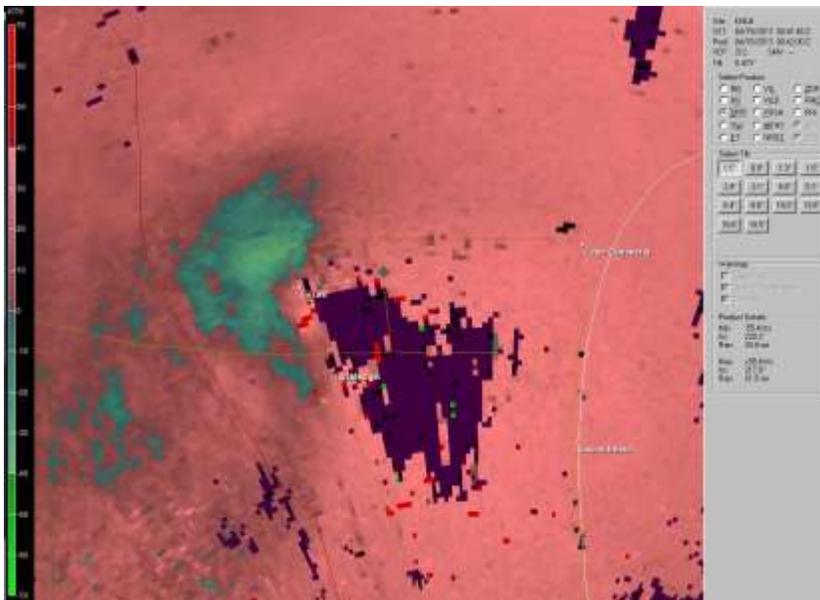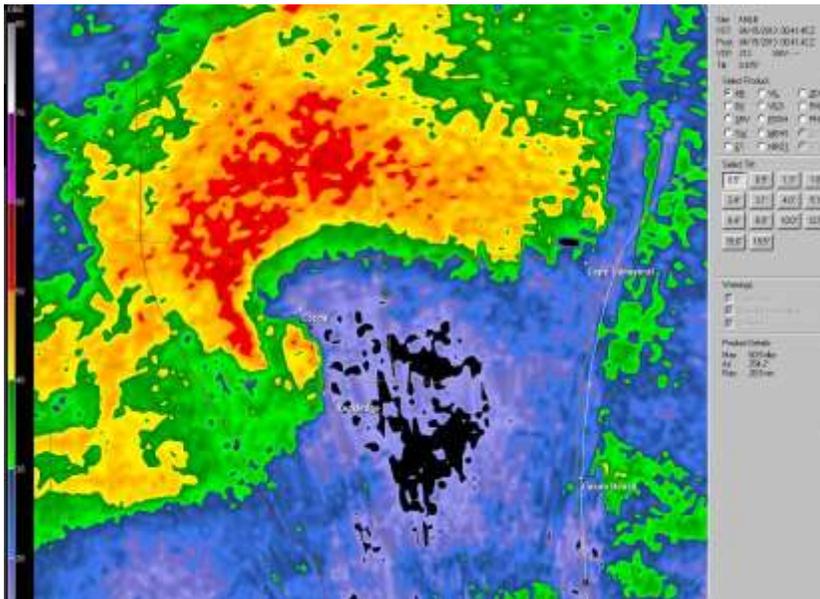
Cocoa Tornado
April 14, 2013 842-843 pm
[37-38 min lead-time TOR#11; 11-12 min lead-time TOR#12]
28.377147 -80.738826
28.38136 -80.73634
.33 miles long; 100 yards wide
An EF0 tornado with winds estimated between 70 and 80 mph touched down near the Intersection of U.S. 1 and Dixon Boulevard in Cocoa and travelled northeast to the Indian River where it became a waterspout. The tornado produced minor damage to the roofs and outbuilding of several businesses along U.S. 1, with power lines also downed. Numerous trees were downed along Dixon Boulevard and Indian River Drive.

Radar Images from KMLB WSR-88D

(base reflectivity top, storm relative velocity bottom)**:**
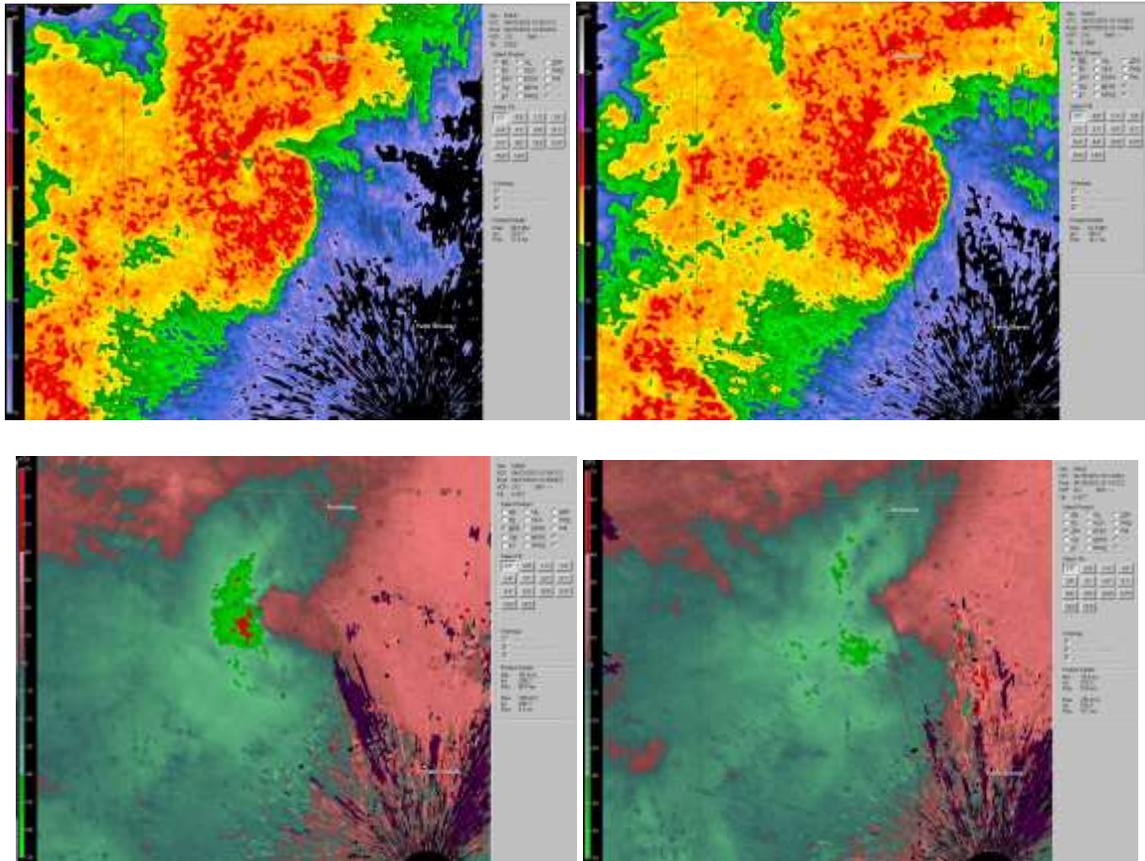
Viera/Rockledge Tornado
April 14, 2013 911-913 pm [9-11 min lead time TOR#13]
28.272977 -80.75067
28.271428 -80.741765
.55 mile long; 100 yards wide

An EF0 tornado with winds estimated at 75 to 85 mph, affected primarily the Charolais Estates and Colfax Landing subdivisions in Viera/Rockledge. The damage was embedded within a larger swath of strong straight-line winds which affected areas extending farther to the west and east. Several homes experienced damage to roof tiles and soffits. Concrete roof tiles were carried downstream and penetrated several windows. Other metal debris was carried downstream and a fence was blown down. Numerous pool screen enclosures totally collapsed.

Additional Damage Surveyed:

Palm Bay Straight-line winds
April 14, 2013 1012 pm (51 min lead-time SVR#10)
27.911429 -80.687928

Severe straight-line winds, estimated at 60 to 70 mph, produced localized damage to several homes in southwest Palm Bay. Roof shingle and soffit damage occurred to several homes on Pomello and Fitzpatrick Avenues. Small objects within yards were blown over.

Relevant Products issued by NWS MLB:

Click on Links Below for:

Tornado Warnings

Severe Thunderstorm Warnings

Local Storm Reports