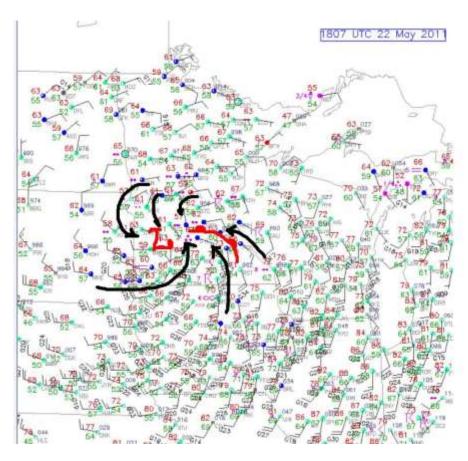
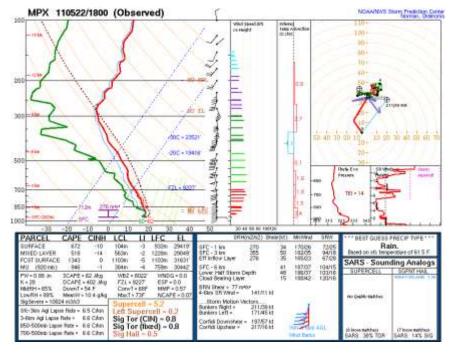
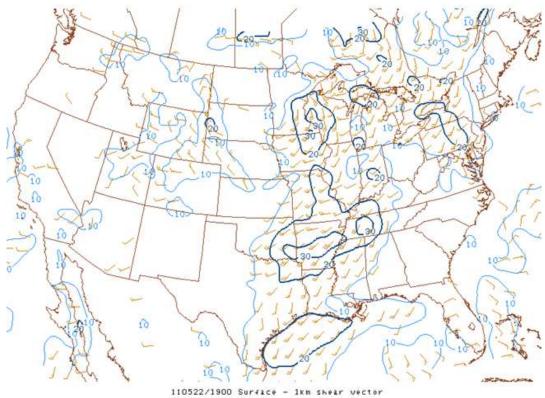
May 22, 2011: Tornadoes in Eastern Minnesota, including North Minneapolis

Weather Synopsis

A strong area of low pressure was noted across western Minnesota during the late morning of Sunday, May 22nd (surface analysis below with black arrows noting inflow and warm front overlaid). Ahead of this area of low pressure, a line of strong storms developed along the leading edge of drier air (air mass change) moving across south central Minnesota. Several thunderstorms moved rapidly northward across the southwest suburbs of the Twin Cities. There was a very well defined wind change from the south to southeast, then east across the Twin Cities Metro Area, which increased the surface helicity (see the MPX sounding below, note the strong 0-1km shear value (35 kts) for our area during the early afternoon) and caused the tornado to form. The other image is the 0-1 km shear across the nation, and the highlighted area of >30 kts in eastern Minnesota.







Damage Surveys

North Minneapolis Tornado



...STRONG EF-1 RATING ASSIGNED TO THE TORNADO THAT HIT NORTH MINNEAPOLIS AND OTHER AREAS...

WINDS OF 100 TO 110 MPH WERE PRODUCED BY THE TORNADO THAT HIT NORTH MINNEAPOLIS...ST. LOUIS PARK...GOLDEN VALLEY...FRIDLEY...MOUNDS VIEW AND BLAINE. IT WAS ON THE GROUND FOR SIX AND ONE QUARTER MILES IN HENNEPIN COUNTY...PLUS AN ADDITIONAL EIGHT MILES ACROSS ANOKA AND RAMSEY COUNTIES AS THE TORNADO WENT THROUGH PARTS OF FRIDLEY... MOUNDS VIEW...AND BLAINE.

THE TOTAL PATH LENGTH WAS 14 AND 1/4 MILES. THE TORNADO WAS ABOUT 1/2 MILE WIDE AT ITS WIDEST POINT. THE TIME OF TOUCHDOWN WAS APPROXIMATELY 215 PM...BUT THIS WILL BE FINE TUNED IN THE DAYS TO COME AS MORE EVIDENCE IS GATHERED. ACCORDING TO VARIOUS SECURITY CAMERAS...THE TORNADO MOVED INTO FRIDLEY AT 222 PM.

THE INITIAL TOUCHDOWN IN ST. LOUIS PARK WAS 3/4 OF A MILE SOUTH-SOUTHWEST OF THE INTERSECTION OF INTERSTATE 394 AND HIGHWAY 100 WHERE TWO BUSINESSES SUSTAINED ROOF DAMAGE. THE TORNADO MOVED NORTHEAST...CROSSING HIGHWAY 100 WHERE IT HIT THE FIRST RESIDENCES ALONG CEDAR LAKE ROAD. IT THEN ENTERED THE SOUTHEAST PORTION OF GOLDEN VALLEY...CROSSED INTERSTATE 394 AND HEADED FOR THEODORE WIRTH PARK. DURING THIS TIME IT TOOK A BIT OF A NORTHWARD TURN AND BEGAN MOVING TO THE NORTH-NORTHEAST.

THE TORNADO MOVED ACROSS WIRTH LAKE AND ENTERED THE CITY OF MINNEAPOLIS BETWEEN GLENWOOD AVENUE AND 16TH AVENUE. UP TO THIS POINT...DAMAGE WAS EF-0 WITH THE VAST MAJORITY OF THE DAMAGE BEING DOWNED TREES ATOP BUILDINGS AND VEHICLES. AS THE TORNADO ENTERED

MINNEAPOLIS, IT STRENGTHENED TO EF-1...AND BEGAN DEMOLISHING GARAGES...SHEDS...AND PARTIALLY REMOVING ROOFS. THERE WAS A HOUSE HERE OR THERE THAT HAD THEIR ROOFS COMPLETELY REMOVED...BUT ADJACENT HOUSES AND OTHER NEARBY STRUCTURES AND TREES DID NOT SUPPORT RAISING THE LEVEL TO EF-2.

THE TORNADO HEADED FOR THE AREA AROUND PENN AVENUE AND BROADWAY AVENUE...THEN LOWRY AVENUE AND LOGAN AVENUE...THEN TO 42ND AVENUE AND LYNDALE AVENUE. IT CROSSED THE MISSISSIPPI RIVER JUST NORTH OF THE CAMDEN BRIDGE...AND BEGAN CAUSING DAMAGE IN ANOKA COUNTY.

IT MOVED ACROSS THE MINNEAPOLIS WATER INTAKE FACILITY. AT THE WATER TREATMENT FACILITY...A FREE STANDING STORAGE GARAGE WAS COMPLETELY DESTROYED...WITH NUMEROUS COTTONWOOD TREES ON THE GROUNDS UPROOTED OR HAVING LARGE LIMBS SNAPPED OFF.

FROM THE WATER FACILITY...THE TORNADO TRACKED NORTHEAST TO A RAIL YARD AND A LARGE INDUSTRIAL FACILITY...WHERE A LARGE METAL BUILDING ON THE GROUNDS HAD PARTS OF TWO WALLS RIPPED OFF AND A LARGE SECTION OF THE ROOF BLOWN OFF.

AT THE RAIL YARD...EIGHT TRAIN CARS WERE TIPPED OVER. THIS CAN BE DONE BY WINDS LESS THAN 110 MPH. ON THE OTHER SIDE OF THE RAIL YARD...MORE INDUSTRIAL FACILITIES AND WAREHOUSES SUSTAINED DAMAGE ALONG MIAMI STREET...THE WORST BEING A WAREHOUSE THAT LOST PART OF ITS ROOFING.

THE STRONGER EF-1 DAMAGE OCCURRED IN THE AREA BETWEEN PENN AND BROADWAY AND THE CAMDEN BRIDGE.

THE TORNADO THEN MOVED ACROSS RESIDENTIALSECTIONS OF FRIDLEY... WHERE EXTENSIVE TREE DAMAGE WAS DONE NORTHEAST OF THE MIDDLE SCHOOL. THE TORNADO THEN WEAKENED AS IT CONTINUED NORTHEAST ACROSS THE EAST SIDE OF OF FRIDLEY TO SPRING LAKE...WHERE IT MOVED INTO THE NORTHWEST SIDE OF MOUNDS VIEW. SPORADIC TREE DAMAGE OCCURRED DURING THIS TIME FRAME.

THE LAST SIGNS OF DAMAGE WERE SEEN ON THE SOUTH SIDE OF THE BLAINE-ANOKA COUNTY AIRPORT...WHERE A FEW HANGARS RECEIVED SOME MINOR EXTERIOR DAMAGE. THE TORNADO WAS ON THE GROUND FOR ABOUT 8 MILES FROM FRIDLEY TO BLAINE.

Anoka County Tornado

...ONE MORE TORNADO CONFIRMED IN ANOKA COUNTY ON SUNDAY MAY 22 - AND SOME MINOR DOWNBURST DAMAGE IN THE SOUTHEAST PART OF ANOKA COUNTY...

A BRIEF AND WEAK TORNADO WAS DETERMINED TO HAVE TOUCHED DOWN IN THE EASTERN PORTION OF HAM LAKE ON SUNDAY AFTERNOON MAY 22. THE TORNADO WILL BE RATED EF-0 WITH WINDS OF ABOUT 65 MPH. IT WAS ON THE GROUND FOR 0.2 MILE AND HAD A MAXIMUM WIDTH OF 30 YARDS. TOUCHDOWN TIME WAS 252 PM.

THE TORNADO TOUCHED DOWN ABOUT 1/4 MILE SOUTHWEST OF THE INTERSECTION OF 155TH AVENUE AND COUNTY ROAD 17. MOST OF THE DAMAGED TREES WERE IN A VERY CONCENTRATED AREA BEHIND SOME HOUSES...

AND IT WAS DEFINITELY INDICATIVE OF A TORNADIC PATTERN.

THE HAM LAKE TORNADO DEVELOPED FROM THE SAME THUNDERSTORM THAT PRODUCED THE NORTH MINNEAPOLIS TORNADO...WHICH DISSIPATED AT THE ANOKA COUNTY AIRPORT IN BLAINE. BUT THE PARENT THUNDERSTORM AND CIRCULATION REINTENSIFIED AS IT MOVED OVER HAM LAKE...AND THE RESULT WAS A BRIEF EF-0 TORNADO AT 252 PM.

ANOTHER AREA OF TREE DAMAGE IN SOUTHEASTERN ANOKA COUNTY WAS ALSO SURVEYED...AND IT WAS DETERMINED THAT DOWNBURST WINDS KNOCKED DOWN ABOUT TWO DOZEN TREES. THIS WAS ABOUT ONE MILE SOUTHWEST OF THE INTERSECTION OF INTERSTATE 35 AND HIGHWAY 97 IN COLUMBUS.

Forest Lake Tornado

...SURVEY TEAM ASSESSMENT OF THE FOREST LAKE TORNADO...

THE TORNADO THAT OCCURRED IN FOREST LAKE WAS A HIGH END EF-0 WITH MAXIMUM SUSTAINED WINDS BETWEEN 80 AND 85 MPH. THERE WAS INTERMITTENT DAMAGE ALONG A PATH LENGTH OF APPROXIMATELY TWO AND SIX TENTHS OF A MILE. THE MAXIMUM PATH WIDTH OF 75 YARDS.

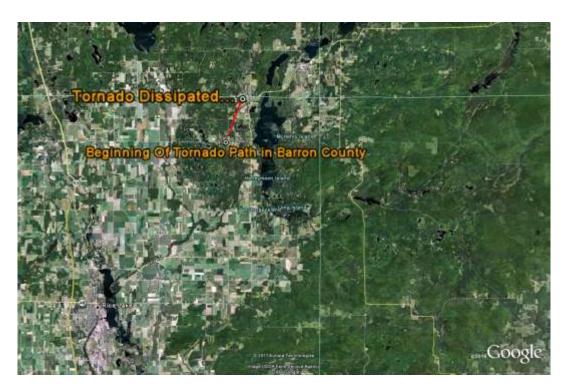
THE FIRST SIGN OF TREE DAMAGE OCCURRED ALONG 200TH STREET NEAR IMPERIAL AVENUE. THE TORNADO CONTINUED NORTH TO JUST WEST OF THE INTERSECTION OF 210TH STREET AND INGERSOLL AVENUE. THE WORST DAMAGE OCCURRED IN THIS AREA...WHERE A METAL POLE BARN HAD ITS ROOF LIFTED OFF AND DOOR BLOWN OUT. IN ADDITION...A NEIGHBORING PROPERTY HAD SEVERAL TREES UPROOTED OR SNAPPED OFF. THE TORNADO CONTINUED NORTH-NORTHEAST TO 215TH STREET...WHERE A LARGE OAK TREE FELL ON A HOUSE. AT THIS POINT...THE TORNADO CROSSED THE EAST SIDE OF THE BODY OF WATER KNOWN AS FOREST LAKE. AFTER CROSSING THE LAKE...THE TORNADO LIFTED UP NEAR SHADYLAND POINT...WHERE A FEW TREES WERE DOWN ALONG JASON AVENUE.



Brill, Wisconsin Tornado

THE TORNADO THAT OCCURRED NEAR BRILL, WISCONSIN WAS RATED A LOW END EF-1 WITH MAXIMUM SUSTAINED WINDS BETWEEN 90 AND 95 MPH. THERE WAS INTERMITTENT DAMAGE NOTED ALONG A PATH LENGTH OF APPROXIMATELY TWO MILES. THE MAXIMUM PATH WIDTH OF THE TORNADO WAS APPROXIMATELY 300 YARDS.

THE FIRST SIGN OF DAMAGE OCCURRED AT A RESIDENCE NEAR THE INTERSECTION OF 28TH AVENUE AND 26TH ST. A SMALL LOG HOME LOST ITS ROOF WITH SEVERAL LARGE TREES TOPPLED. A HOUSE ANTENNA APPROXIMATELY TWELVE FEET TALL WAS BENT OVER. INSULATION FROM THE HOME WAS BLOWN NORTH NORTHEAST APPROXIMATELY ONE EIGHTH OF A MILE. THE TORNADO MARCHED NORTH NORTHEAST DOWNING NUMEROUS LARGE TREES AFTER IT CROSSED 26TH STREET. ADDITIONAL LARGE TREES WERE DOWNED AT A FARMHOUSE SITUATED ON THE EAST SIDE OF 26TH STREET. HOME OWNER REPORTED A LARGE OAK TREE DOWN...ALONG WITH DAMAGE TO NUMEROUS OTHER TREES ON THE PROPERTY. IN ADDITION...TWO SEVEN FOOT TALL HORSE ENCLOSURES WERE DESTROYED. ONE SIX FOOT LONG 4 X 4 INCH WIDE BEAM...USED AS PORTION OF HORSE ENCLOSURE THROWN OVER 200 FEET AND EMBEDDED IN SOIL APPROXIMATELY TWO FEET DEEP. TORNADO CONTINUED TO TRACK NORTH NORTHEAST HITTING ANOTHER FARM RESIDENCE ON THE SOUTH SIDE OF 29TH AVENUE. HALF OF FARMHOUSE ROOF COMPLETELY RIPPED AWAY. PORTION OF BACK WALL OF HOME PIERCED BY LARGE LANDSCAPE CONCRETE BLOCK...WHILE A GLASS DOOR WAS TORN AWAY FROM ANOTHER PORTION OF REAR OF HOME. NUMEROUS LARGE TREES DOWNED AT THIS PROPERTY. TWO TWELVE FOOT TREES PARTIALLY DEBARKED AS WELL. TORNADO THEN PROCEEDED ON NORTH NORTHEAST TRAJECTORY...WHERE IT CROSSED 30TH AVENUE EXITING BARRON COUNTY. A FEW ADDITIONAL TREES WERE TOPPLED AS IT EXITED THE COUNTY.



Storm Damage Survey Photos From the Minneapolis Tornado



Roof Damage to a business in St Louis Park, MN



Tree damage in Golden Valley, MN



Home destroyed in Minneapolis, MN



Tree and vehicle damage in Minneapolis, MN



Home damage in Minneapolis, MN



Tree and vehicle damage in Minneapolis, MN



Large trees uprooted in Minneapolis, MN



Tree damage in Fridley, MN

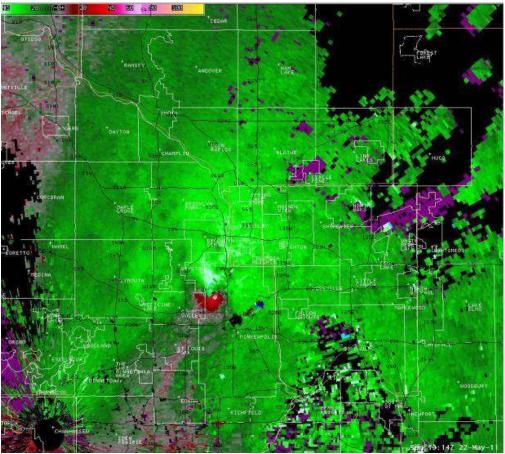


Home damage in Minneapolis, MN

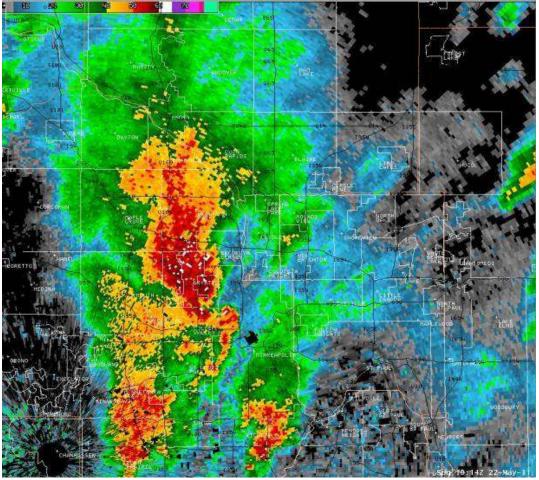
Radar Imagery

Below is a radar image from Sunday afternoon. This image shows SRM (Storm Relative Motion) and is used to diagnose circulation in thunderstorms. The couplet of bright green immediately adjacent to red indicates strong low level rotation in the

thunderstorm. The following image below shows radar reflectivity at the same time on Sunday afternoon, at 2:14 PM CDT. Below is a radar velocity image of the storm as the rotation was passing just to the east of Highway 100 and Golden Valley.

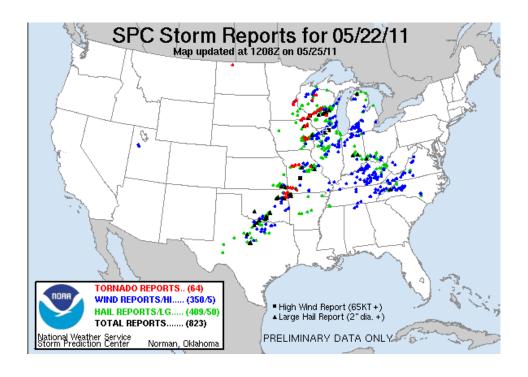


Below is a radar reflectivity image of the storm as the rotation was passing just to the east of Highway 100 and Golden Valley.



The following is a radar image of the thunderstorm that moved across Minneapolis.

Storm Reports



PRELIMINARY LOCAL STORM REPORT...SUMMARY NATIONAL WEATHER SERVICE TWIN CITIES/CHANHASSEN MN 645 PM CDT SUN MAY 22 2011

TIME	EVENT	CITY LOCATION		LAT.LON	
	MAG REMARKS	COUNTY LOCATION	ST	SOURCE	
1259 PM	HAIL	2 S WASECA		44.05N 93.50W	
05/22/2011	M1.00 INCH		MN	911 CALL CENTER	
0139 PM	HAIL	4 E FARIBAULT		44.30N 93.19W	
05/22/2011	M0.88 INCH	RICE	MN	AMATEUR RADIO	
0144 PM	FUNNEL CLOUD	NEW GERMANY		44.88N 93.97W	
05/22/2011		CARVER	MN	911 CALL CENTER	
0201 PM	HAIL	WANAMINGO		44.31N 92.79W	
05/22/2011	M1.50 INCH	GOODHUE	MN	TRAINED SPOTTER	
0216 PM	TORNADO	ST LOUIS PARK		44.95N 93.36W	
05/22/2011		HENNEPIN	MN	TRAINED SPOTTER	
DEBRIS CLOUD HIGHWAY 100 AND 394SURFACE LEVEL ROTATION 0216 PM TORNADO MINNEAPOLIS 44.96N 93.27W					
05/22/2011		HENNEPIN		LAW ENFORCEMENT	
, ,	TREES DOWN 21ST A	AND THOMAS NORTH			
0223 PM		BROOKLYN CENTER		45.07N 93.32W	
05/22/2011			MN	911 CALL CENTER	
	AT HIGHWAY 694 O	VER MISSISSIPPI RIVE	R		
0227 PM	TORNADO	MINNEAPOLIS		44.96N 93.27W	
05/22/2011		HENNEPIN	MN	LAW ENFORCEMENT	

29TH AND LOGAN NORTH

0230 PM 05/22/2011	HAIL M1.00 INCH	FRIDLEY ANOKA	MN	45.08N 93.26W TRAINED SPOTTER		
0234 PM 05/22/2011	TORNADO	TO GARDEN SHEDS AT FRIDLEY ANOKA		WAY 100 AND 694 45.08N 93.26W LAW ENFORCEMENT		
	51ST AND UNIVERSITY AVENUEROOF OFF HOUSE					
0235 PM		5 SE RED WING		44.54N 92.53W		
	M1.00 INCH FUNNEL CLOUD		MN	TRAINED SPOTTER 44.95N 93.10W		
05/22/2011		RAMSEY	MN			
	SOUTH SIDE LAKE					
	TSTM WND DMG			45.08N 93.26W		
05/22/2011		ANOKA	MN	TRAINED SPOTTER		
		73RD ST 6 INCH TRE	E LIM			
0245 PM 05/22/2011	TSTM WND DMG	MINNEAPOLIS HENNEPIN	MN	44.96N 93.27W TRAINED SPOTTER		
03/22/2011		HENNEPIN	MIN	IRAINED SPOITER		
FOLLOWUP REPORTSOUTH OF 12TH AND UPTON EXTENSIVE TREE DAMAGE SOME STRUCTURE DAMAGE AS WELLAPPEARS TO BE WIND NOT TORNADO DAMAGE						
0247 PM	TSTM WND DMG	MINNEAPOLIS		44.96N 93.27W		
05/22/2011		HENNEPIN	MN	TRAINED SPOTTER		
12 TO 18 INCH TREE LIMBS DOWN IN THEO. WIRTH PARKSPOTTER SAYS POSIBLE TORNADO						
0306 PM	FUNNEL CLOUD	N HUGO				
0306 PM 05/22/2011	FUNNEL CLOUD	N HUGO WASHINGTON				
			MN	TRAINED SPOTTER		
05/22/2011 0312 PM	WALL CLOUD WITH FUNNELS HAIL	WASHINGTON SIGNIFICANT ROTATIO 4 NW ELMWOOD	MN N SEE	TRAINED SPOTTER MS TO BE DROPPING 44.82N 92.21W		
05/22/2011 0312 PM 05/22/2011	WALL CLOUD WITH FUNNELS HAIL M1.00 INCH	WASHINGTON SIGNIFICANT ROTATIO 4 NW ELMWOOD PIERCE	MN N SEE WI	TRAINED SPOTTER MS TO BE DROPPING 44.82N 92.21W TRAINED SPOTTER		
05/22/2011 0312 PM 05/22/2011 0314 PM	WALL CLOUD WITH FUNNELS HAIL M1.00 INCH HAIL	WASHINGTON SIGNIFICANT ROTATIO 4 NW ELMWOOD PIERCE 3 W ELMWOOD	MN N SEE WI	TRAINED SPOTTER MS TO BE DROPPING 44.82N 92.21W TRAINED SPOTTER 44.77N 92.22W		
05/22/2011 0312 PM 05/22/2011 0314 PM 05/22/2011 0315 PM	WALL CLOUD WITH FUNNELS HAIL M1.00 INCH HAIL M1.50 INCH HAIL	WASHINGTON SIGNIFICANT ROTATIO 4 NW ELMWOOD PIERCE 3 W ELMWOOD PIERCE ELMWOOD	MN N SEE WI	TRAINED SPOTTER MS TO BE DROPPING 44.82N 92.21W TRAINED SPOTTER 44.77N 92.22W		
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0325 PM 05/22/2011	TSTM WND DMG	4 E HAM LAKE ANOKA	MN	45.26N 93.12W STORM CHASER		
	1-2 FT DIA TREES DOWNFLAG POLE SNAPPED IN HALF. TRREES BLOWN DOWN IN DIRRERENT DIRECTIONS. NARROW DAMAGE PATH. POSSIBLE TORNADO					
0325 PM 05/22/2011	TORNADO	2 WSW CHISAGO CITY CHISAGO	MN			
0328 PM	CAUGHT ON VIDEO NR CR36 AND IVYWOOD TRAIL HAIL 4 W MENOMONIE 44.89N 92.00W					
	MO.25 INCH	4 W MENOMONIE	WI	44.89N 92.00W 911 CALL CENTER		
	TSTM WND DMG	DUNN MINNEAPOLIS HENNEPIN	***	44.96N 93.27W		
05/22/2011	IDIM WND DMG	HENNEPIN	MN			
,,						
	TORNADO DAMAGEROOFS AND 2ND STORIES MINNING OR DAMAGED TO HOUSES AT LOWRY AVE. AND LOGAN					
0331 PM	TSTM WND DMG	MINNEAPOLIS		44.96N 93.27W		
05/22/2011		HENNEPIN	MN	911 CALL CENTER		
	TORNADO DAMAGE REPORT OF ROOFS AND SECOND STORIES OF HOUSES MISSING OR DAMAGED.					
0340 PM	TSTM WND DMG	HAM LAKE		45.26N 93.20W		
05/22/2011		ANOKA	MN	911 CALL CENTER		
	MEDIUM TO SMALL BRANCHES DOWNSHINGLES BLOWN OFF ROOFS					
0342 PM	FUNNEL CLOUD	LINDSTROM		45.39N 92.84W		
05/22/2011		CHISAGO	MN	TRAINED SPOTTER		
0349 PM	TSTM WND DMG	FOREST LAKE		45.28N 92.99W		
05/22/2011		WASHINGTON	MN	TRAINED SPOTTER		
	TORNADO DAMAGEPOLE BARN AND HOUSE WITH EXTENSIVE DAMAGE					
0400 PM	TSTM WND DMG	2 NW MIKANA		45.61N 91.63W		
05/22/2011		BARRON	WI	911 CALL CENTER		
	POSSIBLE TORNDAO. 2 HOMES SUSTAINED ROOF DAMAGE WITH NUMEROUS TREES DOWN BETWEEN MIKANA AND BRILL.					
0407 PM		2 S CHIPPEWA FALLS		44.90N 91.39W		
	M1.00 INCH			TRAINED SPOTTER		
0445 PM		1 S EAU CLAIRE				
05/22/2011	M0.25 INCH	EAU CLAIRE	WI	TRAINED SPOTTER		