

UR Boulder

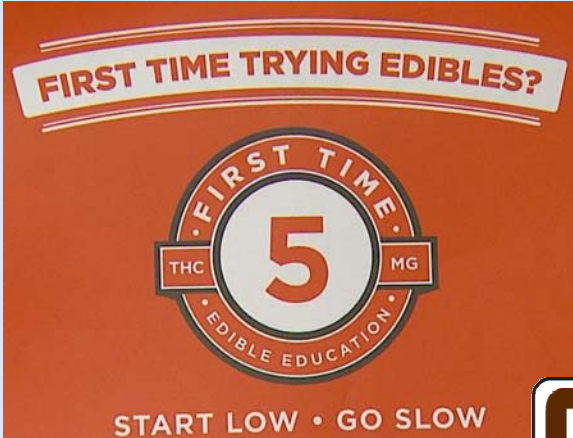
Julie Demuth



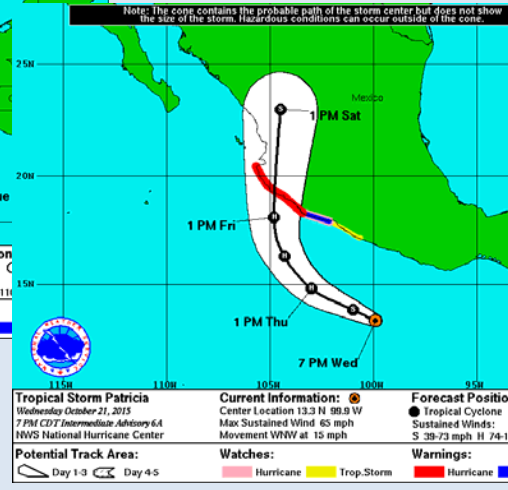
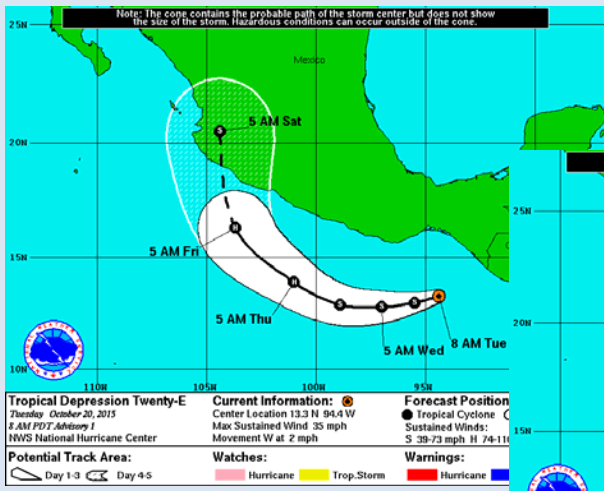
jdemuth@ucar.edu



**What is risk
communication?**

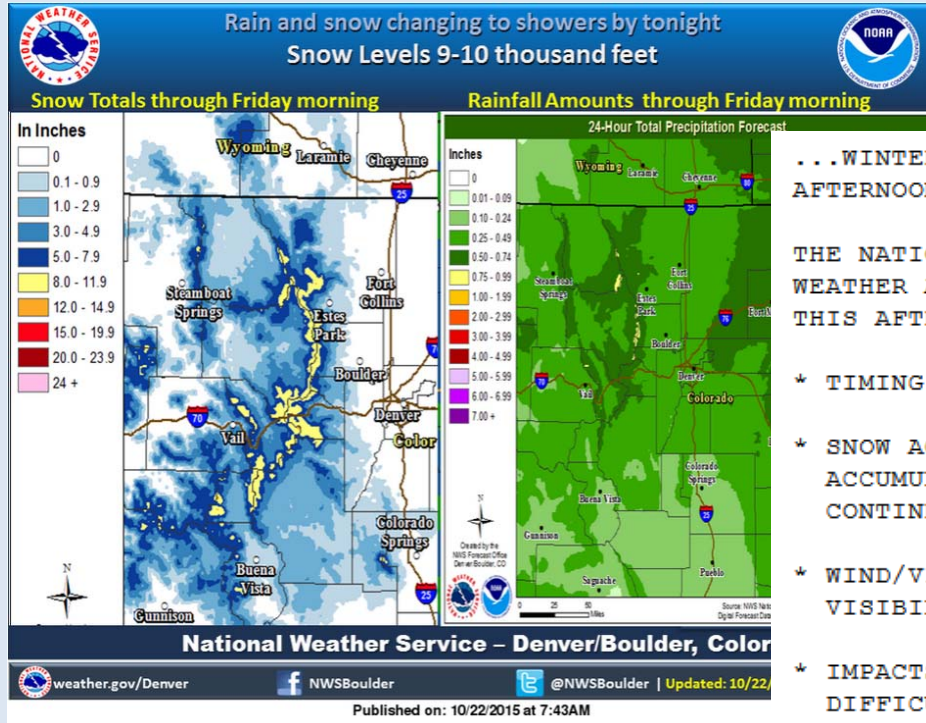



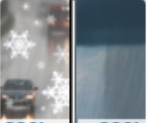

Weather forecasts
=
risk communication



...POTENTIALLY CATASTROPHIC HURRICANE PATRICIA TURNING TOWARD SOUTHWESTERN MEXICO...

Confidence is high that Patricia will make landfall in the hurricane warning area along the coast of Mexico as an **extremely dangerous major hurricane**... In addition to the coastal impacts, very heavy rainfall is likely to cause **life-threatening flash floods and mud slides**...



Tonight	Friday	Friday Night
 50%	 20% 30%	 20% 10%
Chance Rain/Snow	Slight Chance Rain/Snow then Chance Showers	Slight Chance Rain/Snow then Slight Chance Snow Showers
Low: 29 °F	High: 50 °F	Low: 31 °F

...WINTER WEATHER ADVISORY IN EFFECT UNTIL 3 PM MDT THIS AFTERNOON...

THE NATIONAL WEATHER SERVICE IN DENVER HAS ISSUED A WINTER WEATHER ADVISORY FOR SNOW...WHICH IS IN EFFECT UNTIL 3 PM MDT THIS AFTERNOON.

- * TIMING...UNTIL 3 PM MDT TODAY
- * SNOW ACCUMULATIONS...3 TO 7 INCHES WITH THE GREATEST SNOW ACCUMULATION BETWEEN 8000 AND 10000 FEET EAST OF THE CONTINENTAL DIVIDE.
- * WIND/VISIBILITY...HEAVY SNOWFALL AND FOG WILL REDUCE VISIBILITIES TO LESS THAN A QUARTER MILE AT TIMES.
- * IMPACTS...SNOW...SLUSH AND POOR VISIBILITIES WILL LIKELY CREATE DIFFICULT WINTER DRIVING CONDITIONS THROUGH EARLY THIS AFTERNOON. FRONT RANGE TRAVELERS SHOULD ANTICIPATE SLOW TRAFFIC AND POSSIBLE DELAYS DUE TO TEMPORARY ROAD CLOSURES.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WINTER WEATHER ADVISORY FOR SNOW MEANS THAT PERIODS OF SNOW WILL CAUSE PRIMARILY TRAVEL DIFFICULTIES. BE PREPARED FOR SNOW COVERED ROADS AND LIMITED VISIBILITIES...AND USE CAUTION WHILE DRIVING.



Eastbound I-70 closed from Silverthorne to Eisenhower-Johnson Tunnels due to crashes, snowy weather



BY: [Anica Padilla](#)

POSTED: 10:40 AM, Oct 22, 2015

UPDATED: 12 mins ago



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PICTURE BY CDOT

Home Sections Weather Traffic ¹³

More rain and snow through tonight

BY: [Lisa Hidalgo](#)
UPDATED: 2 mins ago
TAG: [forecast](#) | [weather](#) | [colorado](#) | [temperature](#) | [denver forecast](#)

A weather forecast map for Colorado, showing a futurecast for Thursday at 2:00 PM. The map is overlaid with green and blue areas indicating precipitation. A meteorologist is pointing at the map. The map includes labels for various cities: Craig, Steamboat Springs, Ft Collins, Sterling, Boulder, Greeley, Glenwood Springs, Eagle, Frisco, Denver, Limon, Grand Jct, Aspen, Leadville, Colo Springs, Telluride, Gunnison, Salida, Pueblo, Lamar, Durango, Alamosa, and Trinidad. The abc 7 logo is visible in the top left corner of the map area.



Flash Flood Watch Through 7 AM Friday

Flash Flood Watch

Locally heavy rainfall will develop move into West Central Texas this morning, increasing in coverage and intensity during the day.

Widespread rainfall amounts of 2 to 4 inches are expected, with locally higher amounts possible.

Flash flooding may develop at low water crossings, in urban areas, and at other flood prone locations.

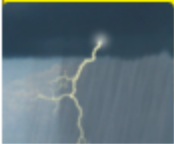

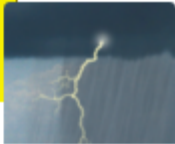


NWS San Angelo

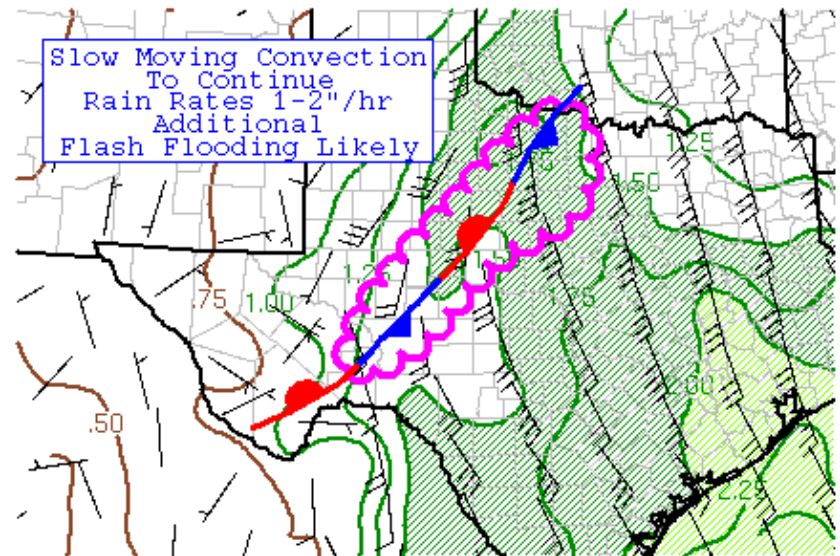


National Weather Service San Angelo, TX Updated: Oct 22 7:45AM

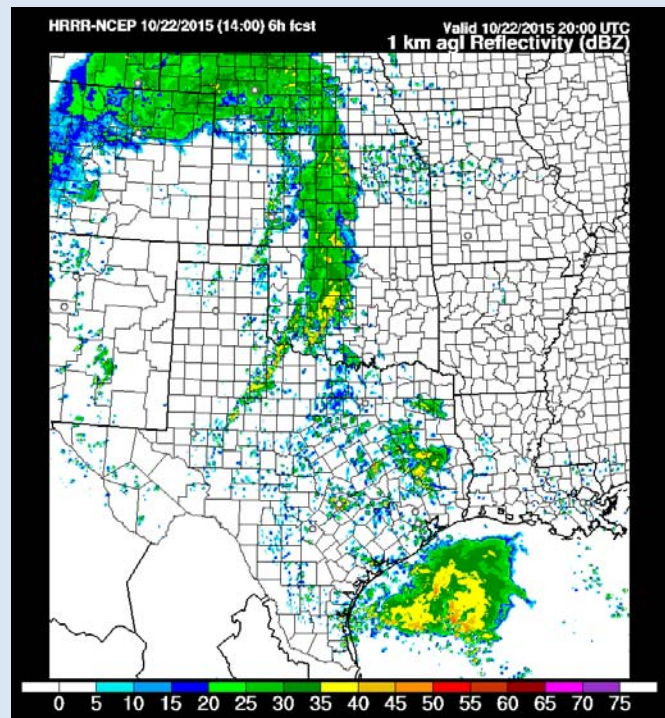
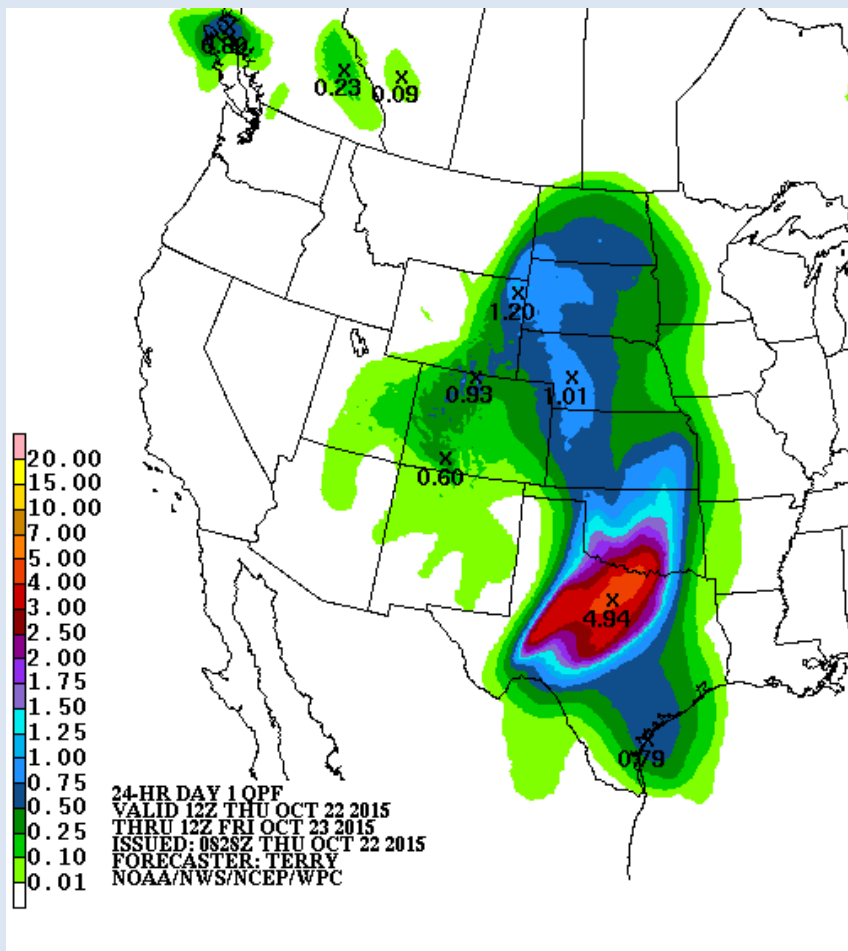
An upper-level storm system will approach the region today. Moisture will continue to increase across the area, and as the storm system interacts with this moisture, showers and thunderstorms will increase in coverage and intensity. Heavy rain will begin to develop this morning, becoming more widespread during the afternoon and evening.

Flash Flood Watch		
Today	Tonight	Friday
 80%	 80%	 60%
Heavy Rain	Heavy Rain	Heavy Rain
High: 79 °F	Low: 65 °F	High: 78 °F

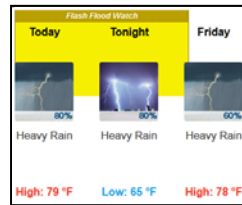
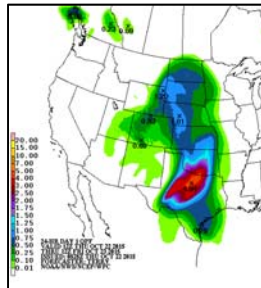
Slow Moving Convection
To Continue
Rain Rates 1-2"/hr
Additional
Flash Flooding Likely



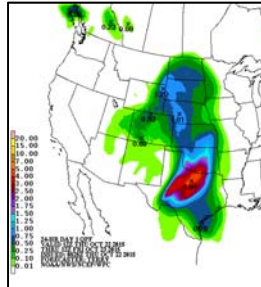
RAP32 850 MB WINDS 151022/1500f001
RAP32 PRECIP WATER 151022/1500f001
WPC MPD #0598



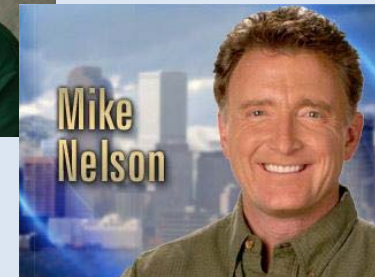
Weather forecasts as risk communication



Weather forecasts as risk communication

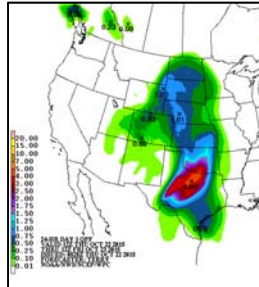


Flash Flood Watch		
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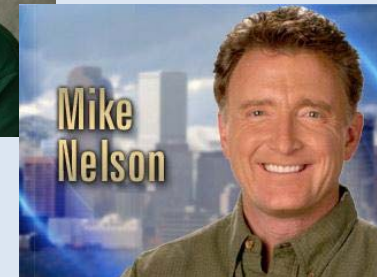


Meteorology research & operations

Weather forecasts as risk communication



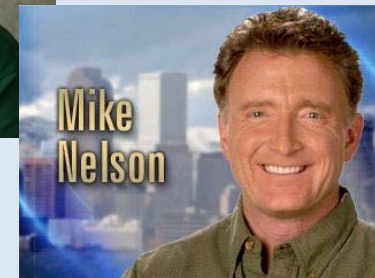
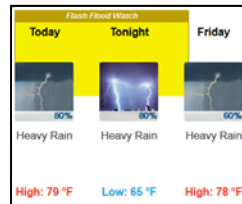
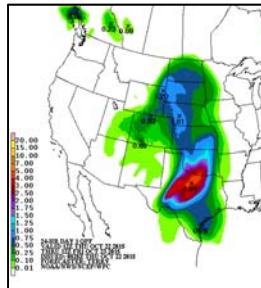
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Meteorology research & operations



Weather forecasts as risk communication



10. 24. 2015



Kittredge Central

11:00 - 12:30 PM

A 50% Chance of An Effective Forecast

Session Lead: Julie DeMuth, NCAR

What do and don't we really understand about weather, the risks it poses, and how people perceive and respond to them? This session will include discussion of these topics from the perspective of practitioners who assess and communicate weather risk information to the public, government, and other users, and from researchers who study the weather and weather risk communication.



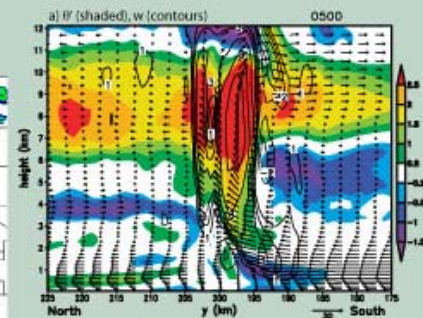
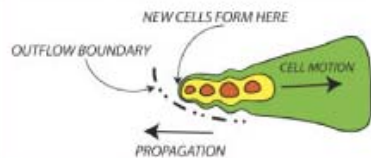
Russ Schumacher

Assistant Professor
Colorado State University
Dept of Atmospheric Science

PRECIPITATION SYSTEMS RESEARCH GROUP Colorado State University Department of Atmospheric Science



B) BACKBUILDING / QUASI-STATIONARY (BB)

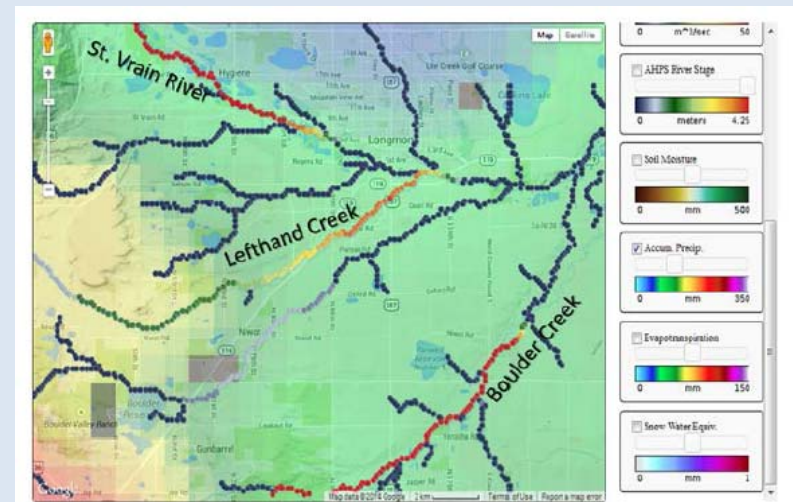
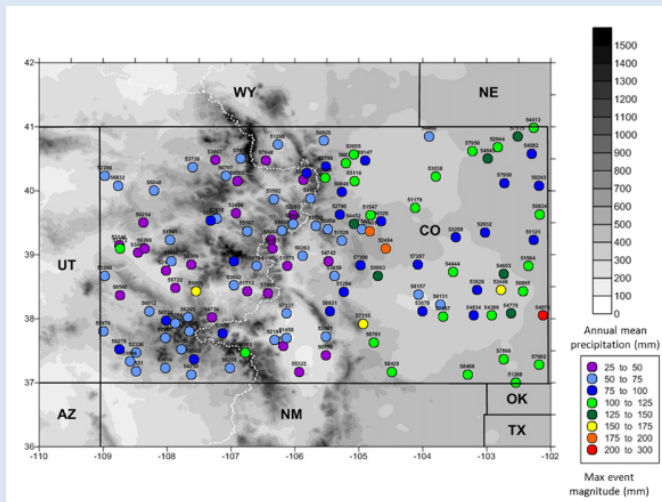




Kelly Mahoney

Research Scientist

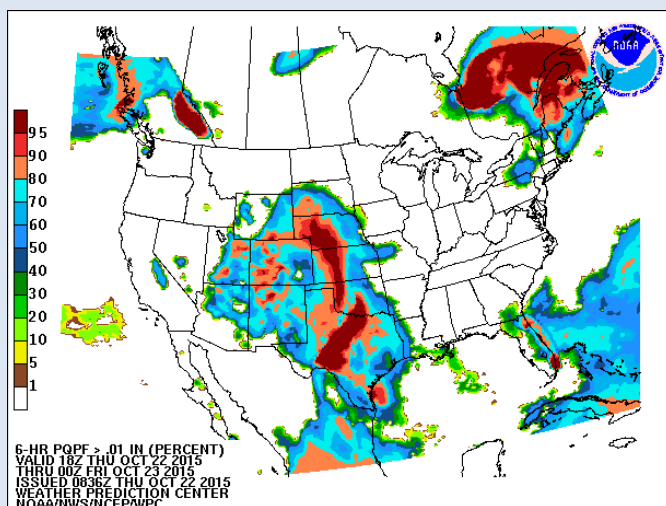
NOAA Earth Systems Research Lab & CU Cooperative Institute for Research in Environmental Sciences





Daniel Nietfeld

Science and Operations Officer National Weather Service Omaha



THE NATIONAL WEATHER SERVICE IN OMAHA HAS ISSUED A

* FLASH FLOOD WARNING FOR...
OMAHA METRO AREA INCLUDING...
SOUTHWESTERN POTTAWATTAMIE COUNTY IN SOUTHWEST IOWA...
EASTERN DOUGLAS COUNTY IN EAST CENTRAL NEBRASKA...
NORTHEASTERN SARPY COUNTY IN EAST CENTRAL NEBRASKA...

* UNTIL 915 PM CDT

* AT 718 PM CDT...DOPPLER RADAR INDICATED NUMEROUS THUNDERSTORMS
PRODUCING HEAVY RAIN ACROSS THE OMAHA METRO AREA. UP TO TWO
INCHES OF RAIN HAVE ALREADY FALLEN AND FLOODING HAS ALREADY
OCCURRED IN PARTS OF THE METRO AREA. ADDITIONAL FLASH FLOODING
IS EXPECTED TO BEGIN SHORTLY.

ADDITIONAL RAINFALL AMOUNTS OF TWO INCHES ARE POSSIBLE IN
THE METRO AREA.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

BE ESPECIALLY CAUTIOUS AT NIGHT WHEN IT IS HARDER TO RECOGNIZE THE
DANGERS OF FLOODING.

TURN AROUND...DONT DROWN WHEN ENCOUNTERING FLOODED ROADS. MOST FLOOD
DEATHS OCCUR IN VEHICLES.

&&

LAT...LON 4116 9583 4116 9588 4114 9588 4112 9587
4111 9587 4112 9614 4137 9613 4137 9577
4128 9576

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NIETFELD