

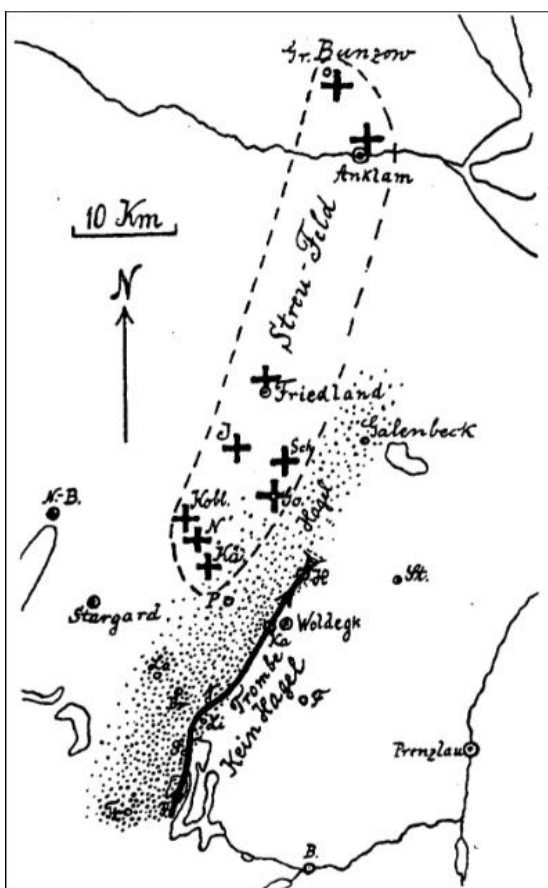


ESSL IF-Scale Tornado Summary

Tornado in Woldegk (Mecklenburg-Vorpommern), Germany

Strongest damage concentration: Lichtenberg bei Feldberg / Mecklbg.
 Event date and time: 29 JUN 1764, 12:10 UTC +/-15mins
 Maximum intensity: IF5

Violent tornado tracked from Feldberg in Mecklenburg 33km into NNE direction up to Gross Miltzow village (in contrast to its labelling, it didn't hit Woldegk town). Strongest damage was reported from Lichtenberg village.



Map of the tornado path (thick black line), hail swath (dots) and debris fallout (crosses) of the 1764 tornado based on the Genzmer Report. [Fig. 78 from Wegener (1917)]

Path length: 33 km Fatalities: 1
 Path width: 800 m (max.) Injuries: 3

Affected places in chronological order:

Feldberg in Mecklenburg, Schlicht, Lichtenberg, Neugarten, Canzow, Helpt, and Gross Miltzow

Lichtenberg - Rating: BSE/2: IF5:

The tornado destroyed a two-storey farm mansion almost completely. The building was newly built and it is reported that only some isolated brick walls of the ground floor level remained.

IF-Scale damage indicator (DI): BS

IF-Scale sturdiness class: E

IF-Scale Degree of Damage (DoD): 2

IF-Scale Result: IF5

The team assumed, compared to the newly built construction and it's large size, sturdiness class E is very likely. Other considerations like sturdiness class D or DoD 1B were dropped because sturdiness class E with DoD 2 seemed more likely.

Another important damage detail of cutted trees being ripped off from the ground, lifted and transported through the air for at least 160m, was impossible to rate in IF-Scale since there is no expression defined as DoD.

Sources:

Genzmer, Gottlob Burchard: *Umständliche und zuverlässige Beschreibung des Orcans, welcher den 29. Jun. 1764 einen Strich von etlichen Meilen im Stargardischen Kreise des Herzogthums Mecklenburg gewaltig verwüstet hat.* Berlin und Stettin, 1765

Wegener, Alfred: *Wind- und Wasserhosen in Europa*, 1917

Feuerstein, Bernold u. Kühne, Thilo: *A violent tornado in mid-18th century Germany: The Genzmer Report.* Paper Presentation. ECSS 2015 – European Conference on Severe Storms, Wiener Neustadt. 2015

The International Fujita Scale (IF-Scale) documentation is available here:

<https://www.essl.org/cms/research-projects/international-fujita-scale/>