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LIGHTNING. DETECTED.

Follow every thunderstorm in real-time

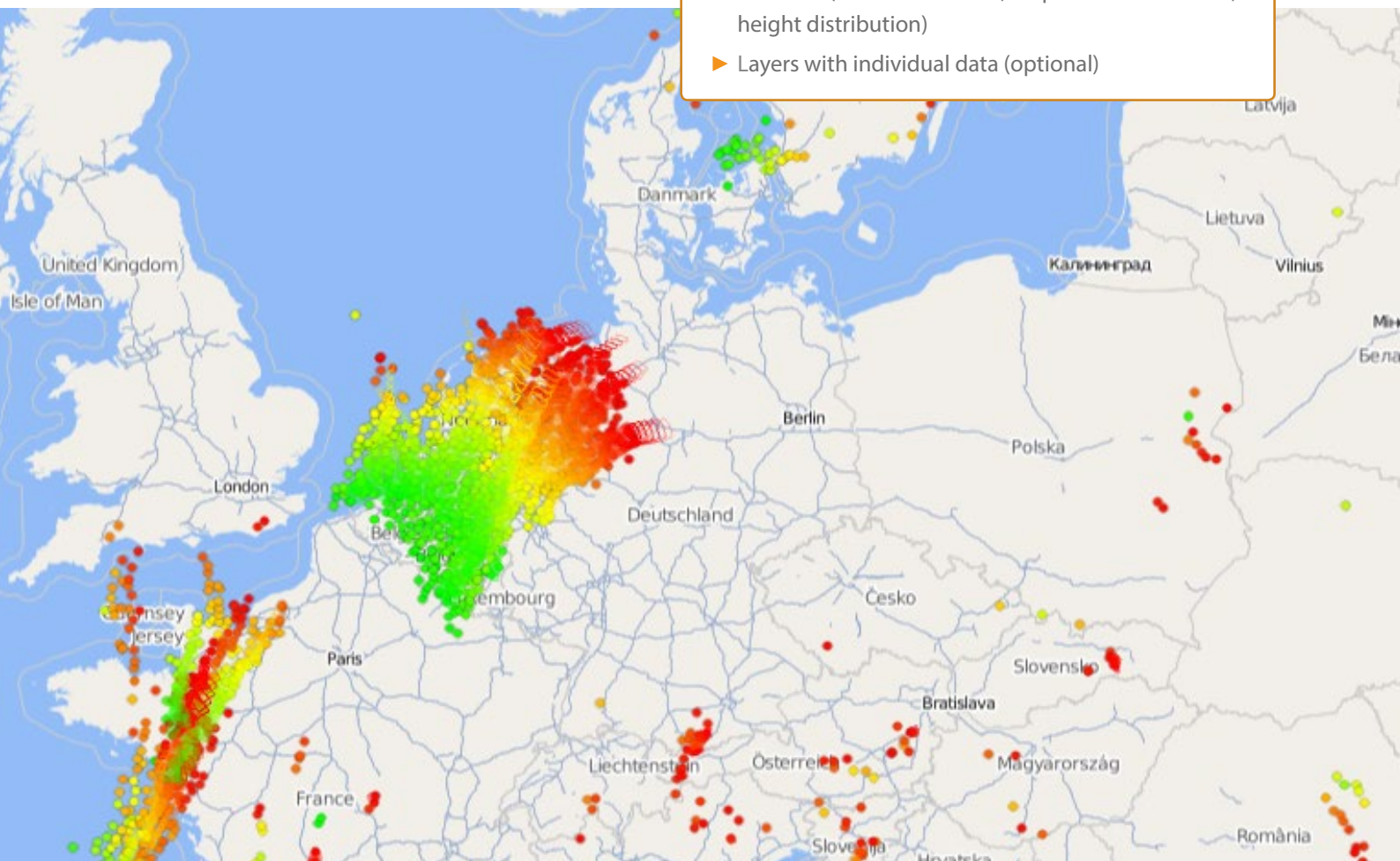
Clear visualization

LINET view visualizes and analyzes the current or any historical thunderstorm situation in your web-browser. Not only are strokes, thunder cells and nowcasting displayed on the map, but also any customer-specific elements and alarm areas. The application is easy to use and provides many tools for managing thunderstorm related risks.

Users are able to organize the protection of workers outdoors, the safety of events, the prompt location of the stroke site in the event of damage, as well as the immediate implementation of repair measures.

Features of LINET view

- Real-time and historical lightning data
- Easy to use web application, perfectly suited to professionally survey weather-sensitive infrastructure in real-time
- Clear visualization on interactive map
- Display of individual strokes and its detailed parameters such as emission height, amplitude, polarity and type (CG / IC)
- Display of thunder cells and nowcasting, and its detailed parameters incl. severity
- Comprehensive management of alarm areas with warning function (auditive, visual, email and text message)
- Integration and display of any desired geographical structure from shape files
- Further layers available such as stroke density, radar, field mill data and many more
- Statistics (flash distribution, amplitude distribution, height distribution)
- Layers with individual data (optional)



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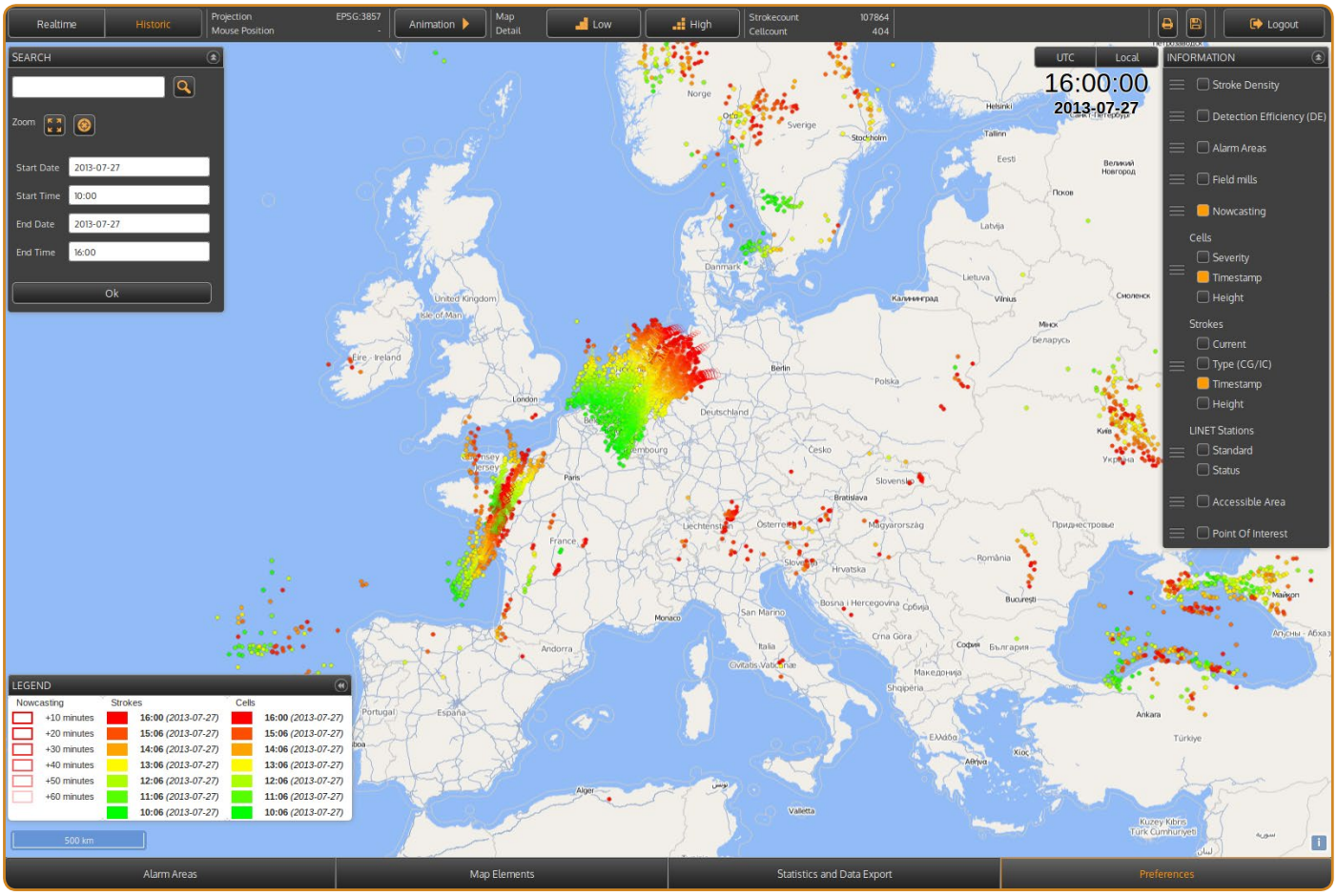
Manage your lightning information

The development and movement of any thunderstorm is clearly visible and allows for taking critical decisions in all lightning related issues. Users are able to create individual alarm areas in order to receive alerts up to two hours ahead of time in case a thunderstorm is approaching the area of interest.

Besides lightning data, LINET view can also display other layers such as radar and data of electrostatic field mills. These data may be used to enrich the alert's accuracy.

Real-time and historical data

In addition to the current weather situation in real-time, since records began, historical data can also be displayed. Up to 48 hours at a stretch can be visualized on the map. Every single lightning stroke is plotted. The color of the individual strokes provides information about the timing, typology of the strokes as intra-cloud or cloud-to-ground strokes, or the height of the intra-cloud strokes. A screened stroke-density display is also available for selection.



LINET view application display

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Alarm areas and warning function

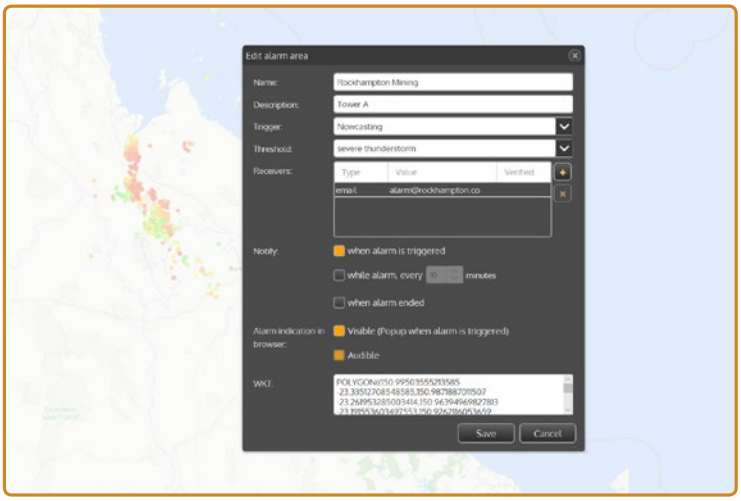
For the surveillance of weather-sensitive facilities, every user can individually plot in „points of interest“ and regions – either interactively using the mouse, or by uploading a shape file. These areas then serve as the basis for an alarm area. Should a storm approach an alarm area, the user is automatically informed via email, text message, an audible or visual alarm.

Cell-tracking and nowcasting

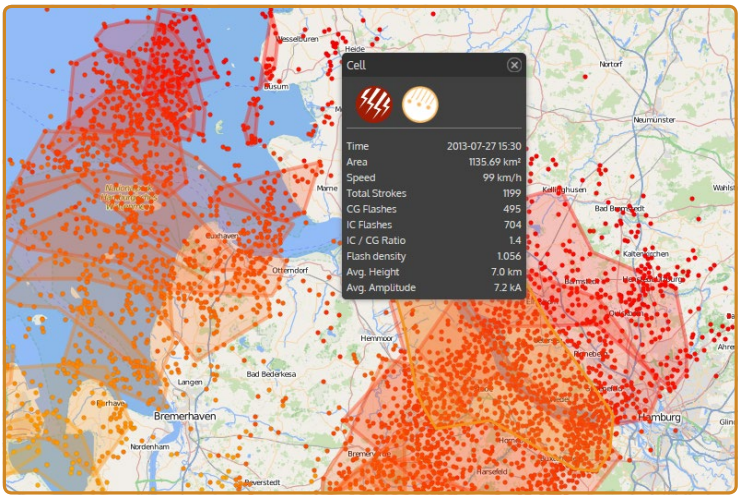
Based on the analysis of real-time lightning data, Cell Tracking and Nowcasting allow for the exact determination of the position of a thunderstorm, and the precise local and chronological short-term forecasting of the thunderstorm development.

Statistics

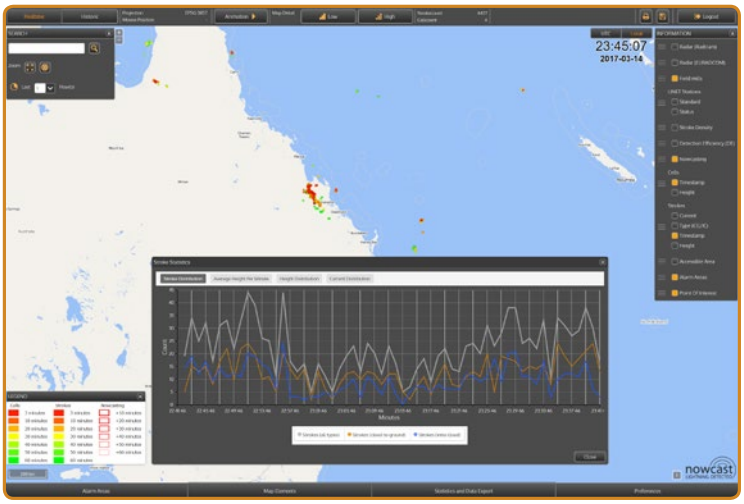
The statistics tool analyzes the lightning data of the area selected and provides information on flash distribution (frequency of cloud-to-ground and intra-cloud strokes per time unit), amplitude distribution (kA) and height distribution of the intra-cloud strokes (km). The statistics window is updated in real-time, critical developments can be recognized easily by the user.



Create and edit alarm areas



Detailed cell parameter information



Lightning data analysis

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Who benefits from LINET view?

LINET view is the perfect application for the surveillance of your weather-sensitive facilities or operations. Weather services, energy suppliers, the military and various other sectors also rely on LINET view as a control and reference system.

Airports make use of LINET view in order to reduce the duration of turnaround stops to an absolute minimum. Aviation companies favor nowcast's real-time Tracking and Nowcasting of Thunderstorms algorithm (rTNT) for the perfect scheduling of their activities. Via individual alarm areas, users receive a warning as early as two hours prior to the calculated time of arrival of a storm.

On oil rigs, LINET view facilitates – in addition to the general storm warnings – the supervision of supply lines via air and water, the co-ordination of work activities outdoors for the prevention of lightning-induced hazards, as well as the optimization of lightning protection measures.

Further user groups include railway companies (rail network), wind parks, operators of pipelines or transmission lines, the leisure industry, event organizers (open-air), operators of weather-sensitive facilities, and all other weather-dependent sectors.

The advantages

- Real-time lightning data for the evaluation of malfunctions caused by thunderstorms
- Early-warning of approaching thunderstorms with nowcast's rTNT algorithm up to 2 hours in advance
- Countdown, estimated time of arrival (ETA), duration and estimated time of departure (ETD) of a thunderstorm
- Evaluation of lightning-protection measures
- Evidence of lightning-induced damages
- Increased safety with electrostatic field mills
- Easy customization for your specific needs

Individualization

Are you interested in integrating LINET view into your company? We can then customize the LINET view web application with your logo and your corporate colors (subject to an additional fee). As such, you can use the web application in compliance with your company's CI. Upon request, additional layers such as radar can be integrated into LINET view.

Data export

In order to allow for the display of the data in other applications, for example in a 3D geo-browser, the export function stores all the available information pertaining to the area selected in a KML, TXT or ASC file.