



# 10 Success Stories for the 10th Anni- versary of the Lufft WS Family



**10<sup>th</sup>**  
**ANNIVERSARY**  
2008-2018



In 2008, with the WS600 and WS400, we launched the first all-in-one weather sensors on the market! Within 10 years, the product family has grown to more than 20 different devices that are used worldwide. On the occasion of the 10th anniversary of the Lufft WS series we review 10 success stories:

# 1. FIFA Confederations Cup

## Weather measurement during FIFA Confederations Cup 2013 and FIFA World Cup 2014 in Brazil

The compact sensor WS301-UMB was part of a mobile weather station for measuring and monitoring environmental parameters during the FIFA Confederations Cup 2013 and the FIFA World Cup 2014 in Brazil.

All participating football stadiums were equipped with these stations.



The weather stations measure temperature, relative humidity, air pressure and global radiation. In addition, an external rain gauge can be added to measure rainfall. Thanks to the energy-saving mode, the WS301-UMB weather sensor can be used mobile and solar-powered. The stations were located behind the goals. That's why they were visible on TV and in the press, as you can see in the pictures of the Confederations Cup match for third place (Uruguay - Italy) to the left.



**Learn more about WS-Sensors and the Confederations Cup!**





## 2. Fine Dust



Our compact weather stations are part of monitoring stations for the measurement of fine dust, manufactured by our customers Grimm Aerosol Technik GmbH and PALAS. The fine dust measuring stations have proven themselves worldwide.

The Lufft compact weather stations WS300-UMB, WS500-UMB, WS600-UMB are used for monitoring of climate data. Thanks to the Lufft sensors the stations will not only deliver data about particle matter and the GPS location but also provide meteorological information.

The pictures show worldwide projects in Austria, Germany and Malaysia as soon as a mobile application for fine dust monitoring in tunnels.



**Learn more about WS-Sensors and fine dust!**





# 3. Antarctica

## Lufft WS200 wind sensors on a research station in the Antarctica

Base Orcadas is an Argentine scientific research station in the Antarctica. It is located on Laurie Island, one of the South Orkney Islands (Spanish: Islas Orcadas del Sur), at 4 meters (13.1 ft) above sea level and 170 meters (558 ft) from the coastline and is the oldest one there which is still in operation.



According to the Köppen climate classification system, the station is surrounded by a typical tundra climate. It's located near an ice cap climate zone. The research base consists of 11 buildings dealing with four main research areas: continental glaciology, seismology, sea-ice-zone glaciology (since 1985) and meteorological observations (since 1903).

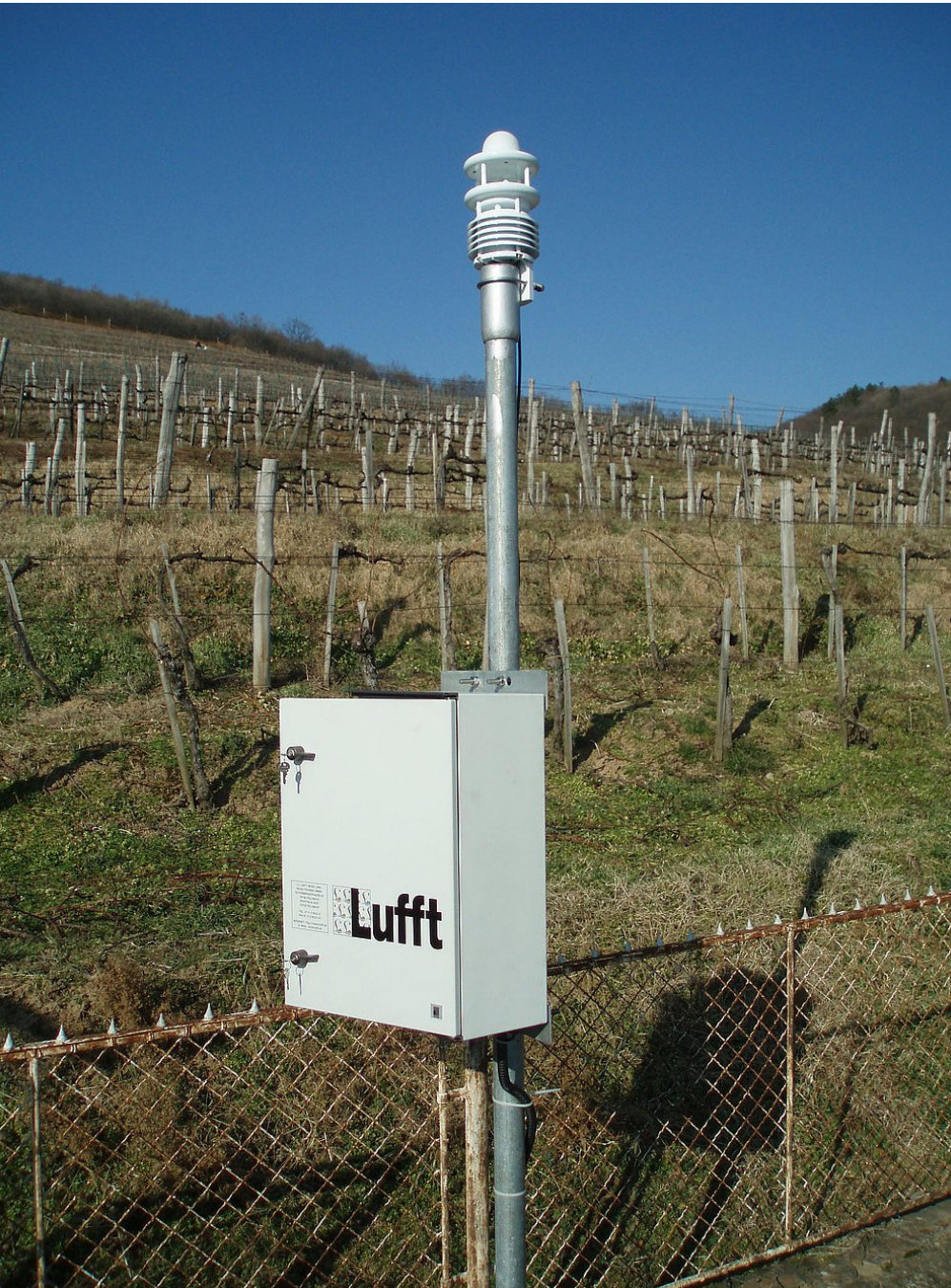
In 2011, the Lufft partner American Traffic S.A. won a project to install 20 WS200 ultrasonic wind anemometers around the station. In addition, 40 weather stations were installed in warmer fields of Argentina, proving the high flexibility and reliability of Lufft sensors.



**Learn more about WS-Sensors in the Antarctica!**




## 4. AgMet (Agro-Meteorology)



### Monitoring of microclimates in wine yards

Winegrowers in Pécs, Hungary's fifth largest city, rely on Lufft. The all-in-one sensor WS600-UMB measures all relevant meteorological data at the place of installation. Based on the results, far-reaching decisions can be taken.

 [Learn more about WS-Sensors and AgMet](#)







## 5. Building Automation

### Smart Lufft-Sensor on Stavros Niarchos Foundation Cultural Center (SNFCC) in Athens

The Stavros Niarchos Foundation Cultural Center (SNFCC) in Athens was designed by Renzo Piano and inaugurated on 23 February 2017. It houses the National Library of Greece and the Greek National Opera. We are part of this meaningful building project in form of a WS601-UMB compact weather sensor.



On the photovoltaic roof, the sensor measuring temperature, relative humidity, air pressure, wind velocity and wind direction as well as precipitation, is placed and was installed by TEABE EPE. The station transfers the valuable measurement data to the BMS (Building Management System) via MOD-Bus to monitor and control various sub systems, e.g. the air condition.



**Learn more about WS-Sensors and building automation.**







## 6. Road Weather



### **Road Weather Information System (RWIS) with open architecture - USA / Michigan MDOT**

Lufft USA installed 20 new ARWIS systems (ice warning systems) for Upper Peninsula in Michigan.

Luffts' open system architecture in terms of open interfaces and intelligent sensors for easy integration of sensors from other manufacturers, was crucial for our customers.

The system includes a cloud concept. Therefore, the user can retrieve all data via the cloud.



**More about WS-Sensors and Road Weather**

## 7. Solar Monitoring

### **PV Monitoring with Smart Weather Sensors**

The Imperial Valley Solar Company has built the largest photo-voltaic power plant in the USA and the Lufft WS500- and WS503-UMB compact weather sensors are an important part of this project.

Another large project in the US was the solar plant installation at the Regional Training Institute of the National Guard in Fort Pickett, Virginia.



**Learn more about WS-Sensors and Solar Monitoring**





## 8. Power Saving

### **Sustainability in a holiday paradise: The Constance Hotels and Resorts rely on WS504**

The Constance Hotels & Resorts have sites in Mauritius, in the Seychelles and the Maldives.

There, the operators mounted automatic weather stations including the weather sensor WS504 and the precipitation meter WTB100 from Lufft for its own researches to determine the influence of the meteorological conditions on the energy consumption of their resorts.



**Learn more about WS-Sensors and power saving!**







## 9. Severe Weather

### Weather Philippines - Weather Warning Service with Lufft WS502-UMB

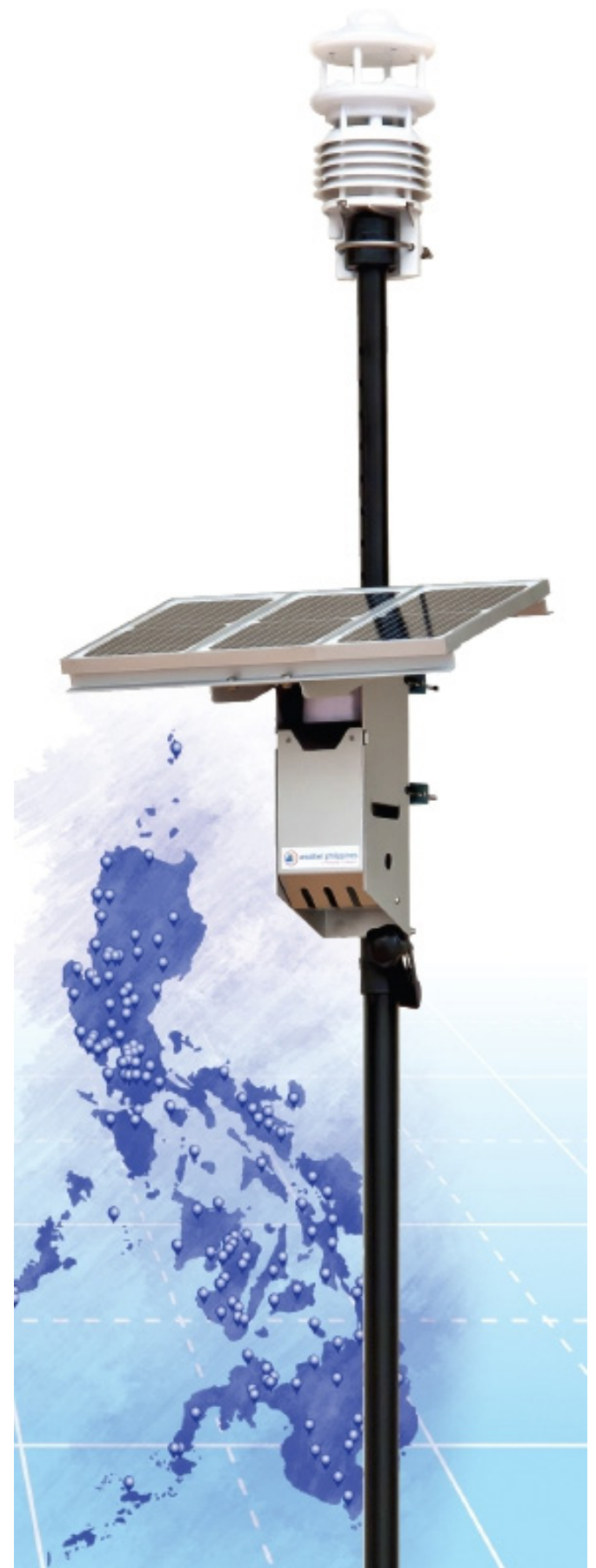
WeatherPhilippines Foundation, Inc. (WPF) aims to deliver critical and accurate weather information to aid local governments, communities, and individuals in disaster preparedness and timely response to variable weather conditions.

WPF has deployed more than 400 Automated Weather Stations (AWS) across the country, and intends to install 600 more with the help of private sponsors and site partners who would like to participate in this cause.

Most of the automatic weather stations include the Lufft compact weather station WS502-UMB, which measures air temperature, relative humidity, solar radiation, air pressure, wind direction and wind speed. We are proud to be part of this weather warning service.



**Learn more about WS-Sensors and Severe Weather!**







## 10. High Speed Train



### Wind measurement with High Speed Train operations, China

The compact weather stations WS500-UMB and WS600-UMB from Lufft provides reliable wind measurements along high speed rail lines in China. As the trains travel at speeds of up to 400 km/h, wind speed-dependent control of train speeds is essential. For this purpose, wind measurement stations like the WS500-UMB and WS600-UMB are installed at 5 km intervals along the track. Measurement data are processed in real time.

Complete reliability, long-term stability and high accuracy are crucial in this application. The WS600-UMB documents results by means of the measurement log which is provided for each sensor of the WS product family.



**Learn more about WS-Sensors and High Speed Trains!**







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