More than 85 years ago, Professor Vilho Väisälä put the finishing touches on his first commercial radiosonde. Today, most atmospheric soundings around the world are performed with Vaisala sounding equipment.

Here is how our first groundbreaking technology has led to the organization we are today.



## 2023 Vaisala launches Radiosonde RS41 E-models with Vaisala BioCover™ and

BioTwine™ that combine high-quality atmospheric sounding data with innovative, biodegradable materials to help reduce plastic waste originating from sounding operations. NCAR Dropsonde NRD41\* debuts as a meteorological measurement

device for use in atmospheric profiling from aircraft flight level to surface.

Vaisala Cirrus® Sounding System MW51 provides a generational leap in upper-air observations. The MW51 is equipped with all new builtto-purpose Vaisala Cirrus Sounding Processing Subsystem SPS511, and DigiCORA® Software which offer never before seen features in sounding capability.



## Vaisala raises the bar for automatic soundings with the release of the Vaisala AUTOSONDE® AS41, a completely new upper-air observation

2018

system for synoptic and adaptive use. Vaisala Dropsonde RD41\* debuts as a meteorological measurement device that takes atmospheric profilings from aircraft flight level to surface.

standards in both technology and usability.

The Vaisala Radiosonde RS41 is released and combined with the Vaisala DigiCORA® Sounding System MW41. It introduces new

2012





## Vaisala launches Vaisala DigiCORA® Sounding System MW41, the first part of the next-generation radiosonde system. MW41 takes the sounding

operational experience to a new level.

environment and electromagnetic compatibility.





## The Vaisala Radiosonde RS92 features new high-performing sensors designed for radiosonde use, featuring Vaisala's method of applying GPS to wind measurement.

2003

The next sounding system version, Vaisala DigiCORA® Sounding System MW31, gives meteorologists comfortable control over the sounding process by integrating sounding controls, archiving the sounding data, and meteorological messaging. 1999





with a user-friendly graphical interface. A BUFR message coding program is implemented in 2001. 1997





## Research (NCAR) and Vaisala enter into a licensing agreement on dropsonde design. NCAR designs the "GPS Dropwindsonde" using Vaisala

core technology for pressure, temperature, humidity and wind finding. This dropsonde is renamed the Vaisala Dropsonde RD93\*.

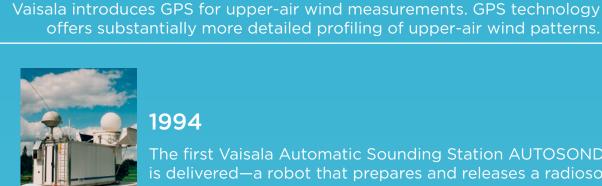
Vaisala delivers the first dropsondes. The National Center for Atmospheric



1996

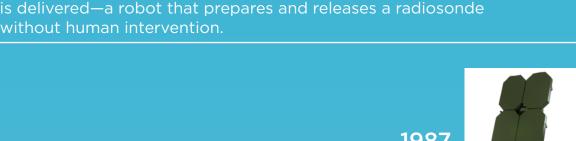






## 1994

The first Vaisala Automatic Sounding Station AUTOSONDE®





without human intervention.

1987 Vaisala introduces the first version of the 1680 MHz radiotheodolite for defense applications.





1986

The Vaisala DigiCORA® Sounding System MW11 is introduced. It features a self-guiding menu for operation through front panel keys, comprehensive self-testing, and built-in battery backup. An automatic telemetry system

Vaisala introduces the compact ASAP Sounding Station, a semi-automatic upper-air observation station for use on board ships. ASAP receives the radiosonde signals and converts them into meteorological messages.

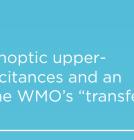




VAISALA

1981 The Vaisala Radiosonde RS80 sets a new standard in synoptic upperair observation. New methods for measuring small capacitances and an electronic switch are patented worldwide. It becomes the WMO's "transfer

launch on board of a research ship, late 1970s.

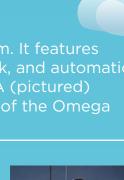




1975

Vaisala introduces the CORA® Automatic Sounding System. It features wind measurement based on the Omega NAVAID network, and automatic coding of TEMP messages. The world-famous MicroCORA (pictured) enters the market in 1981. It is in use until the termination of the Omega network in 1997.

The Vaisala Radiosonde RS21 offers an improved temperature sensor and a thin film, the HUMICAP® humidity sensor. 400 MHz telemetry opens the





1965

1973

1977

1969 The WMO grants it temperature reference radiosonde status.



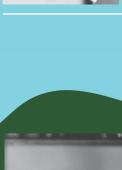


# 1950

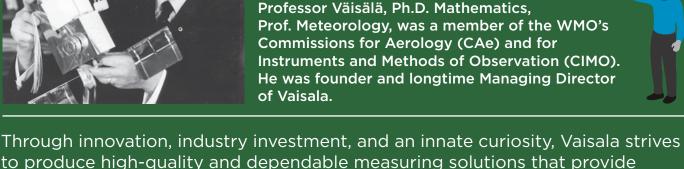
1936



VÄISÄLÄ



1936



Trusted weather observations for a sustainable future



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observations for a better world.

\*The dropsonde, aircraft data system hardware and software are designed by the Earth Observing Laboratory of the National Center of Atmospheric Research in Boulder, Colorado, USA and built by Vaisala under license

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