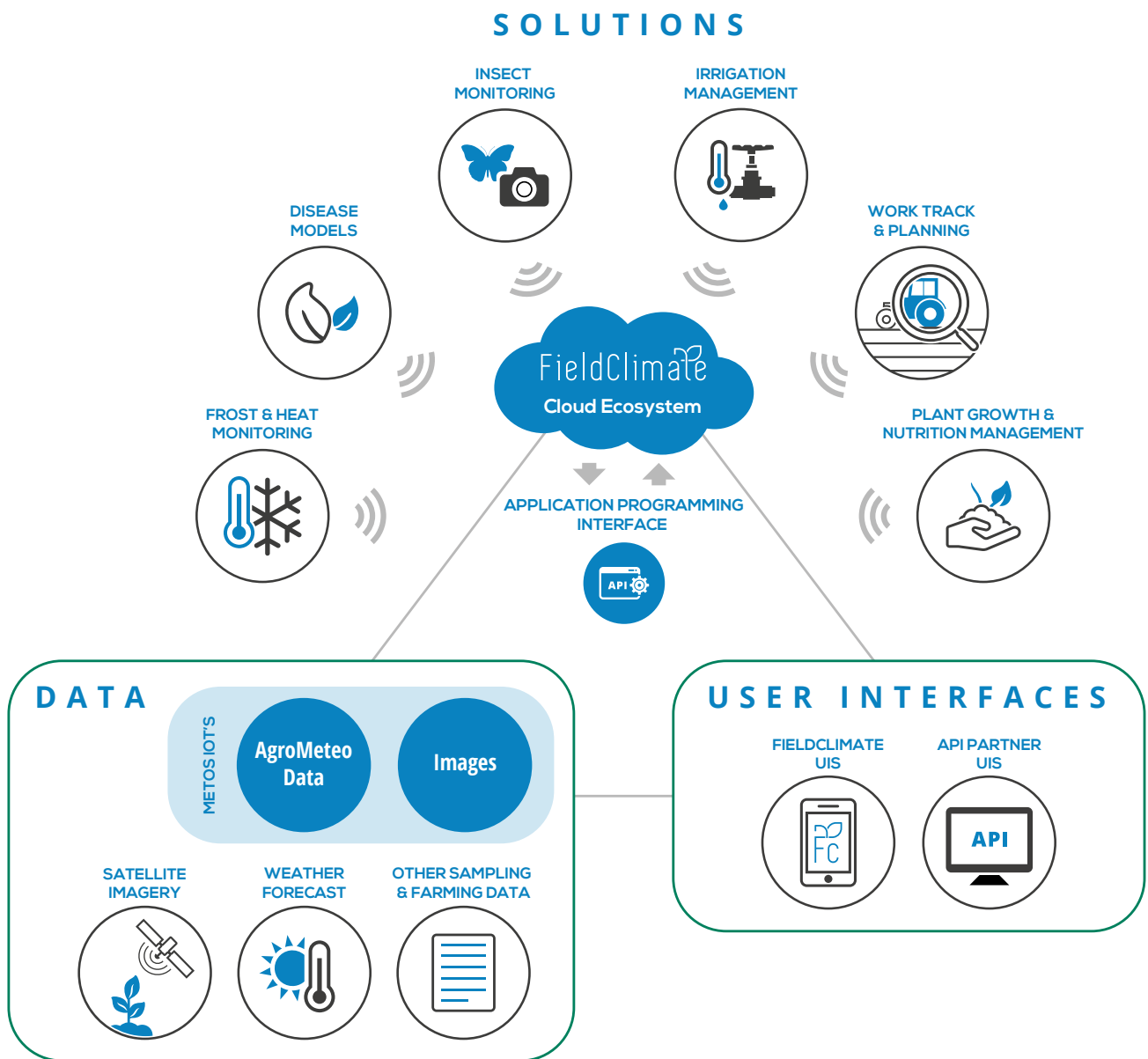




Calendar

2023

# Optimise your field activities with METOS® by Pessl Instruments this growing season



# January

A new year starts!

The behaviour of the crop is strongly influenced by the weather, so it is important to have a reliable weather station and accurate weather forecast. The data will help you better organise work, in particular the soil tillage, defence interventions, fertilisation and irrigation.

**Already a METOS® USER?** Make sure you activate licences for high-precision localised weather forecasting services and plant disease models. **Not yet a user?** Contact us and will help you pick the best solution for your field.



This time of the year, the plants are dormant, so it's time to prune. Proper pruning is essential for the correct balance of the buds and the final quality of the fruit.



It's highly advised to have accumulated data from the beginning of the year for disease modelling, pest monitoring and other weather-related data.

MO	TU	WE	TH	FR	SA	SU
30	31					1 New Year's Day
2	3	4	5	6 ●	7	8
9	10	11	12	13	14 ●◐	15
16	17	18	19	20	21 ○	22
23	24	25	26	27	28 ●◐	29

# February

At the beginning of the new season, check that the station is working correctly; data must be transmitted continuously to the FieldClimate platform. Keep the solar panel and sensors clean, especially the rain gauge.



A clean rain gauge ensures correct rainfall measurements, also make sure it is levelled by checking the bubble indicator and not obstructed by leaves, insects or debris that could prevent it from functioning properly.



Before the season starts, use time to get familiar with the [FieldClimate](#) interface to gain a better understanding and practical skills for the coming season. You can learn more about it [here](#).

MO	TU	WE	TH	FR	SA	SU
		1	2	3	4	5 
6	7	8	9	10	11	12
13 	14	15	16	17	18	19 
20	21	22	23	24	25	26
27 	28					

# March

The temperature is rising and the time has come to plant or sow. With the activation of the [Weather Forecast](#) in [FieldClimate](#), you will be able to see the most suitable period to access the field (under Work Planning services); to till the soil, to fertilise or to sow.

It is a great time of the year to set up [insect traps](#) so you'll see what inhabits your fields and orchards. Start monitoring the presence of various insects and pests early to prevent the damage later in the season.



March marks the beginning of the season in the Northern Hemisphere and it is time to start field monitoring and using solutions for seeding campaigns, [disease monitoring](#), frost monitoring, [soil moisture monitoring](#), and other field activities.



1. The defence season is on its doorstep. Make sure that [weather forecast](#) service located on your field and [plant disease models](#) are activated, to know when to start treatments. Check if [leaf wetness sensor](#) has the appropriate paper intact and positioned correctly.

2. Frost risk: Make sure that the water bottle of [wet and dry bulb sensor](#) is at least 80% full.

MO	TU	WE	TH	FR	SA	SU
		1	2	3	4	5
6	7 	8 International Women's Day	9	10	11	12
13	14 	15	16	17	18	19
20	21 	22 World Water Day	23 World Meteorological Day	24	25	26
27	28 	29	30	31		

# April

Plant health management of the crop becomes easier by referring to [plant disease models](#) and services based on [high-precision localised weather forecast](#) as an indicator of the ideal treatment window.





In this time, insects start to threaten the crop, so frequently check **iSCOUT**® traps via smartphone or PC to assess the size of the population in the field, deciding accordingly when to intervene.



Frost risk: in the last years, we saw devastating late Spring frost occurrences. While it is impossible to prevent the frost from happening, you can monitor air temperature and wet and dry bulb temperature in case of late spring frost does happen. You can also set an SMS alert if the temperature starts to drop and be ready to prepare mitigation measures (covering, sprinkling, fogging, ...).



April is a crucial period for fertiliser application, fighting diseases, pest prevention, frost prediction, measuring soil temperature, and similar.

MO	TU	WE	TH	FR	SA	SU
					1	2
3	4	5 	6	7 Good Friday	8	9
10 Easter Monday	11	12	13 	14	15	16
17	18	19 	20	21	22 World Earth Day	23
24	25	26	27 	28	29	30

# May



With accurate [weather forecast](#) and [disease models](#), you can [spray](#) your crop only when necessary. Choose the most suitable time for treatment by avoiding intense rainy events that cause the runoff of plant protection products, and by taking into account the growth of new leaves and the ideal climatic conditions.



Start preparing for potential Summer droughts. May is a good time to start thinking about how you can save water without compromising the quality of your future yield. Make sure you install soil moisture sensors, rain gauges and activate weather forecast for future irrigation planning.



The main period for modelling and adapting technologies of cultivated crops to local weather to ensure good yield and yield quality.

MO	TU	WE	TH	FR	SA	SU
1	2	3	4	5 	6	7
8	9	10	11	12 	13	14
15	16	17	18	19 	20	21
22	23	24	25	26	27 	28
29	30	31				

# June



[Spraying](#) your crop becomes easier by referring to the services implemented in the [FieldClimate](#) platform. They help you manage and perform important operations during this period, such as mowing and weeding.



Time for using special tools like work planning, crop growth monitoring, [satellite images](#), yield prediction, and crop stress evaluation.



Save water: [Irrigate](#) only when necessary by monitoring soil and plant water conditions with specific probes and sensors.

MO	TU	WE	TH	FR	SA	SU
			1	2	3 	4
5 World Environment Day	6	7	8	9	10 	11
12	13	14	15	16	17 	18
19	20	21 Summer Solstice	22	23	24	25
26 	27	28	29	30		



# July

The plant protection season continues. Monitor your crops for weed control, fertiliser needs and potential drought damage. Keep the rapid and frequent development of insect populations in your field under control with [iSCOUT®](#).



Time to monitor the parameters such as evapotranspiration, VPD for crop health, Delta T for spraying, soil water balance. Learn more about them [here](#).



During this hot month [irrigate](#) only when the plant needs water, thus optimising water management and ensuring better crop yield and quality of the product.

MO	TU	WE	TH	FR	SA	SU
1					1	2
3 ●	4	5	6	7	8	9 ○
10	11	12 Cow Appreciation Day	13	14	15	16
17 ○	18	19	20	21	22	23
24	25 ○	26	27	28	29	30

# August

August is fruitful - for fruit flies! This time of year, fruits and vegetables are more or less ripe and they attract one of the most destructive pests - fruit flies. With weather forecast, disease models and appropriate sensors in the field, you'll be able to prevent and/or mitigate the threat they pose to your crops.






Additionally, continue to [irrigate](#) smartly. Combine soil moisture data with monitored and forecasted weather data and get a detailed water management plan.



Yield estimation period - monitor crop maturity status, fruit size, sugar content, nutrient content, leaf turgor status.



The season is not over yet. Make sure you keep a close eye on how your crops are developing.

MO	TU	WE	TH	FR	SA	SU
	1 	2	3	4	5	6
7	8 	9	10	11	12	13
14	15 Assumption of Mary	16 	17	18	19	20
21	22	23	24 	25	26	27
28	29	30 	31			

# September

The end of Summer approaches and it is time to reap your effort - a big variety of crops is ready to be harvested.

Combine high-precision [weather forecast](#) with environmental data to choose the optimal moment for harvest and ensure perfect ripeness and quality of the fruit and vegetables.



Tools that can help ease the harvesting period are [weather forecast](#), field conditions predictor, dew point, leaf wetness, crop dedicated harvest planner.



Crops are stored; it is now time to think about how to protect the soil during winter months. Plant the fields with cover crops.

MO	TU	WE	TH	FR	SA	SU
				1	2	3
4	5	6 	7	8	9	10
11	12	13	14 	15	16	17
18	19	20	21	22 	23	24
25	26	27	28	29 	30	

# October

The time is right for both harvesting and storing. Combine climate data with [CropVIEW®](#) images and harvest fruits in optimal conditions avoiding inconvenience.

Don't start putting your soil moisture sensors and weather station away just yet. After harvesting, important operations such as soil tillage and autumn fertilisation start. They need to be performed under appropriate soil moisture conditions to work the soil deeper by enriching it, counteracting weeds, making it less compact and improving its capacity to retain water.



If soil and climatic conditions permit, green manure seed may be sown to enrich the soil with organic matter.



You don't want to see your yield go bad. It is time to choose the best IoT devices you need for ensuring the best storage conditions.

MO	TU	WE	TH	FR	SA	SU
30	31					1 World Farm Animals Day
2	3	4	5	6 ☾	7	8
9	10	11	12 USA Farmer Day	13	14 ☽	15 International Day of Rural Women
16 World Food Day	17	18	19	20	21 ☾	22
23	24	25	26	27	28 ☀	29

# November

During this period maintenance work is carried out and tillage is continued where soil and climate conditions permit.



Time for clean up and storage of the devices.



Order your [METOS® weather stations](#) and sensors in advance to avoid waiting for products during the High Season.

MO	TU	WE	TH	FR	SA	SU
		1 All Saints' Day	2	3	4	5 
6	7	8	9	10	11	12
13 	14	15	16	17	18	19
20 	21	22	23	24	25	26
27 	28	29	30			

# December

The cycle of field tillage is over. New year will start with pruning.



While the soil is resting, it is time for a reevaluation of the year. There's always room for improvement of field activities that will result in higher yield yet reduced costs and resource usage.



Finish harvest, collect soil samples, repair farm machinery and visit smart-ag shows to collect ideas and solutions for the next season.

MO	TU	WE	TH	FR	SA	SU
				1	2	3
4 	5 World Soil Day	6	7	8	9	10
11	12 	13	14	15	16	17
18	19 	20	21 Winter Solstice	22	23	24
25 Christmas Day	26  Saint Stephen's Day	27	28	29	30	31

# METOS<sup>®</sup>

BY PESSL INSTRUMENTS

We want to thank you for trusting that METOS<sup>®</sup> by Pessl Instruments can be your partner on the way to a higher food security.

By deciding to use IoT technologies - connecting sensors, devices and data to the cloud, you are maximising your efficiency while protecting our planet's valuable natural resources.

For orders please contact [orders@metos.at](mailto:orders@metos.at) or find a METOS local distribution partner on [www.metos.at/](http://www.metos.at/) distributors.



If you are already working with METOS<sup>®</sup> weather stations, you can get additional features such as **real-time site-specific Weather forecast subscription with work planning tools**, **Disease model subscription** or **Satellite Subscription** in our [METOS<sup>®</sup> shop](#).

**Weather Forecast**



**Disease Models**



**Satellite**

