

Changelog

SGPA3

Automated Process Management System



Changelog Version 2023/206
 Period: 09/19/2023 to 09/25/2023
 Revision 01
 Date: 10/05/2023

Some applications mentioned in this report may not be available in the feature pack in your SGPA 3.0



Thank you for being a SGPA 3.0 user!

We update our system in order to fix bugs, improve performance and add new features to bring a better user experience and contribute to management with greater quality and efficiency.

Table of Contents

1. SGPA3	4
1.1 New Features.....	4
1.1.1 Maps – Meteorology.....	4
1.2 Improvements	9
1.2.1 Maps – Map Details and Status Legend	9
1.2.2 Records – Equipment.....	11
1.2.3 PBI Reports – Operational Variables	11
1.3 Bugs.....	12
1.3.1 PBI Reports – Supply (Vertical Grains).....	12

1. SGPA3

1.1 New Features

1.1.1 Maps – Meteorology

With the aim of improving Meteorological data management, the **New Meteorology** was implemented. From this version, the “**Meteorology**” module will be available within the **Maps** module.

New Meteorology is divided into three data visualization options: **Weather Forecast**, **Weather Maps** and **Radar**.

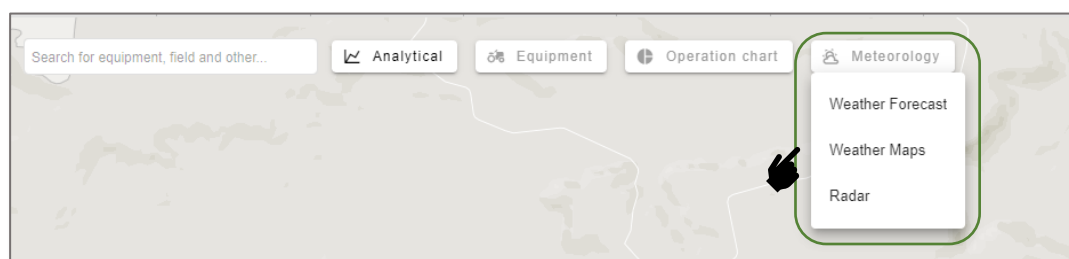
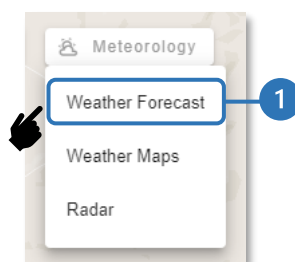


Image 01 – Weather button in the top menu of Map

1 METEOROLOGY > WEATHER FORECAST



In **WEATHER FORECAST** it will be possible to view the following information:

- Graph with data from the next 24 hours with information on **Temperature**, **Rain**, **Humidity** and **Wind Speed**.

- Cards with data of **Rain Probability**, **Maximum/Minimum Temperature**, **Humidity** and **Wind Speed**. The first card with the current day's forecast and the others with the forecast for the next 2 days.

- When selecting a field, it will display **Farm**, **Zone** and **Field** data and Weather Forecast data specific to the selected field.



Image 02 – Weather Forecast with the Temperature parameter selected.

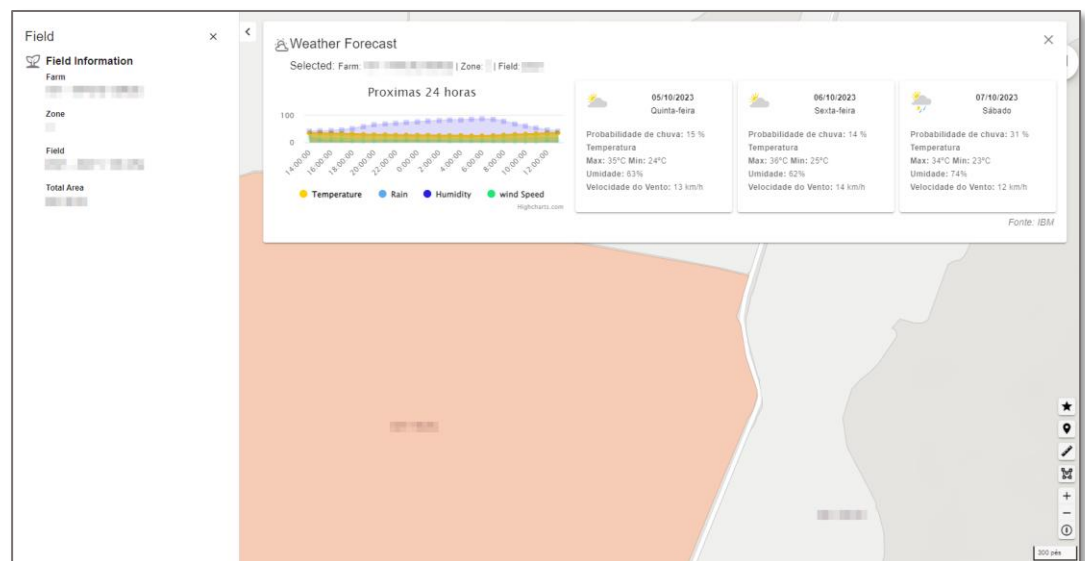
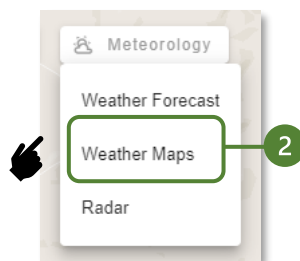


Image 03 – Weather Forecast with Temperature, Rain, Humidity and Wind Speed parameters selected and with field selected on the map

2 METEOROLOGY > WEATHER MAPS



In **WEATHER MAPS** it will be possible to view the following information:

- Interpolated Climate Maps of **Rain Accumulation, Average Temperature, Average Humidity, Average Dew Point, Evapotranspiration** and **Wind History**.
- Clicking on the Interpolated Climate Maps options will display cards with information on **Maximum and Minimum Temperature, Wind Speed, Rain Accumulation, Evapotranspiration** and **Humidity** (one card per day).
- Equipment Filter and cards with specific data for the Equipment Weather Station types and Rain Gauge (with data from the current day).
- Date Range Filter of Climate Maps linked to the Date Range filter of the Analytical module, therefore, using the modules simultaneously, when changing the date/time in one, it is reflected in the other.
- Shortcut button for the **Weather Chart**, by clicking it, it displays a new screen where the user can view data on the parameters **Temperature, Rain, Humidity, Wind Speed, Atmospheric Pressure, Solar Radiation, Dew Point, Battery, and Evapotranspiration**. The information is presented grouped by Time or Day and there is the option to filter by Field and Equipment. The **Weather Chart** Date Range filter has no link to the Analytical.

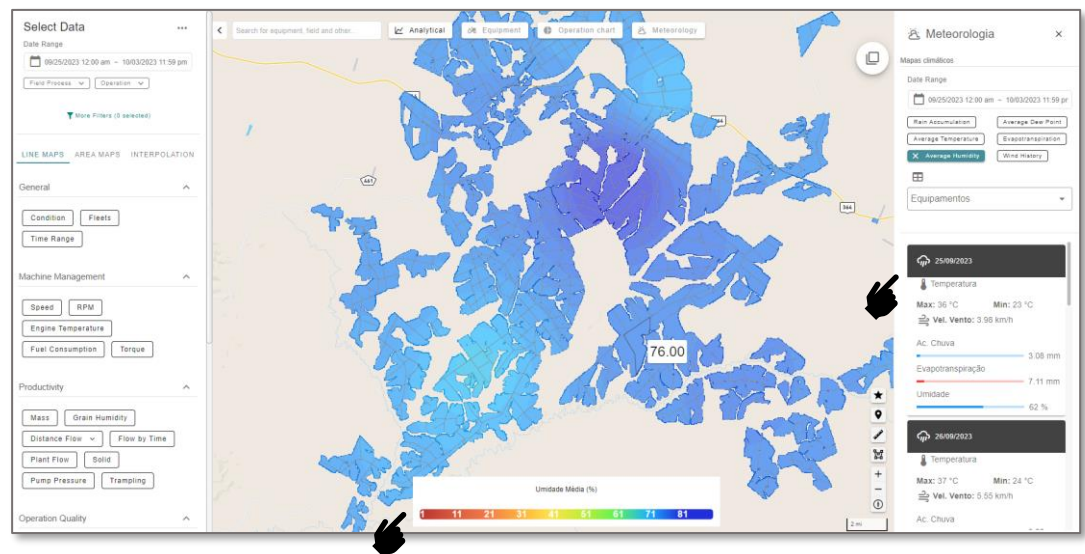


Image 04 – Average Humidity Climate Map

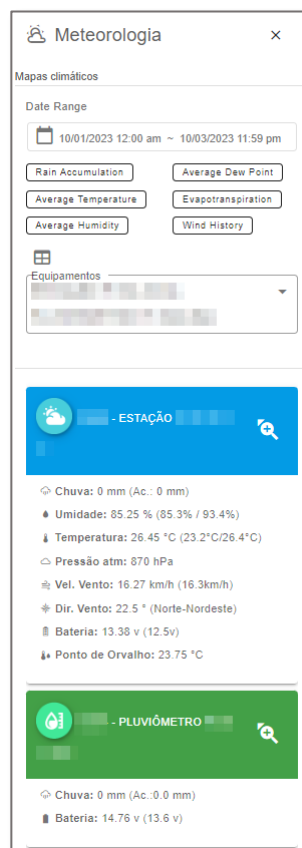


Image 05 – Cards with Equipment information – displays data only from the current day

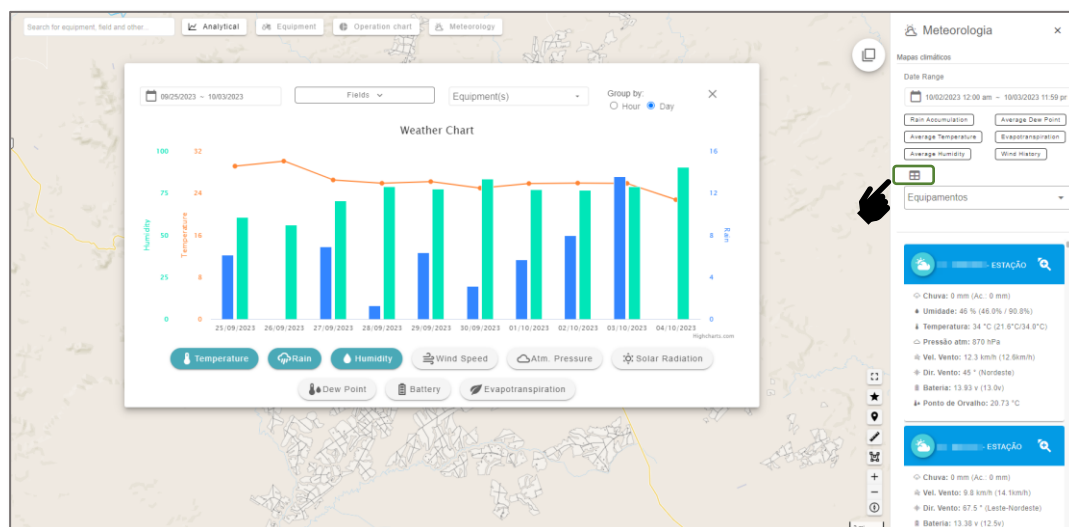
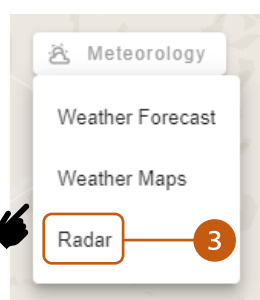


Image 06 – Weather Chart

3 METEOROLOGY > RADAR



In the **RADAR** option, it will be possible to view the Meteorological Radar images, that is, the functionality of the tool that was previously available in the Meteorology button (located at the bottom of the screen) has been maintained.



Image 07 – Weather Radar



Go to Top Menu > Maps > Top Menu > Weather.



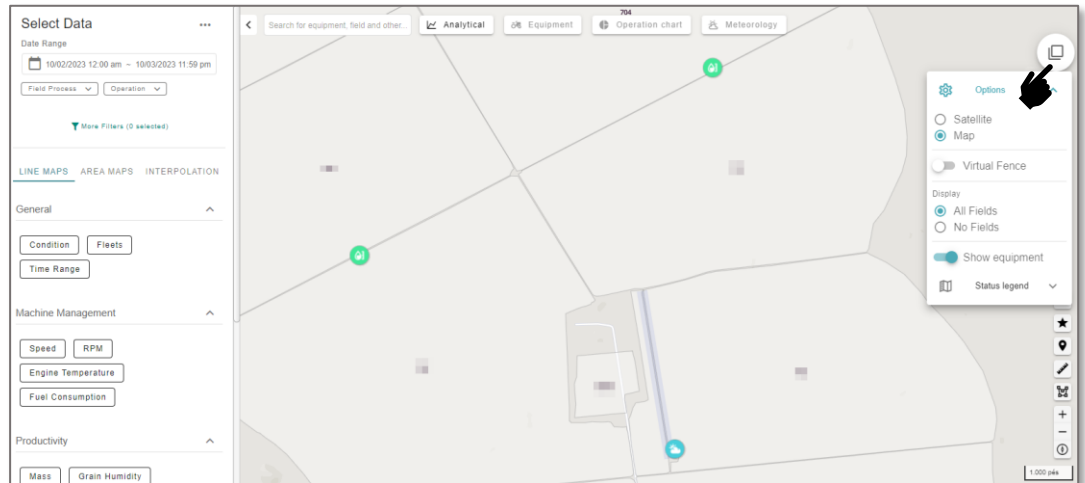
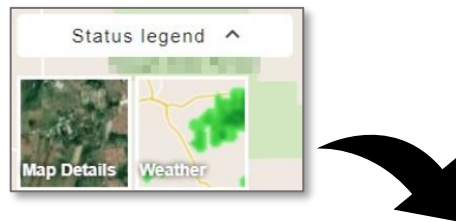
Available for environments that have active "Weather Station" and/or "Rain Gauge" equipment types.

1.2 Improvements

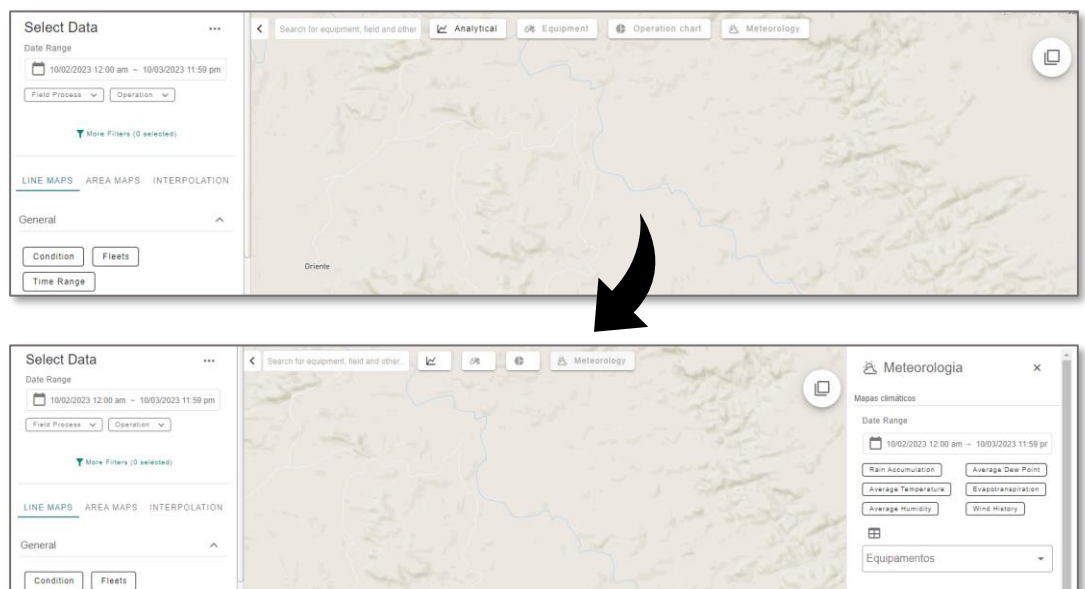
1.2.1 Maps – Map Details and Status Legend

Due to the implementation of the New Meteorology, the **"Map Details"**, **"Weather"** and **"Status Legend"** buttons were removed from the bottom of the Map and Monitoring. The information contained in the **"Map Details"** and **"Status Legend"** buttons will be available in the new **"Options"** button located in the upper right part of the screen. The information contained in the **"Weather"** button was transferred to the new **"Meteorology"** module.

Furthermore, improvements have been made to the buttons display located in the top menu of the Map to display them in a collapsed mode when there is little display space on the screen, displaying only the icon, however, when hovering the cursor over the button, will display the description.



Images 08 and 09 - The “Map Details”, “Weather” and “Status Legend” buttons removed and the new “Options” button included



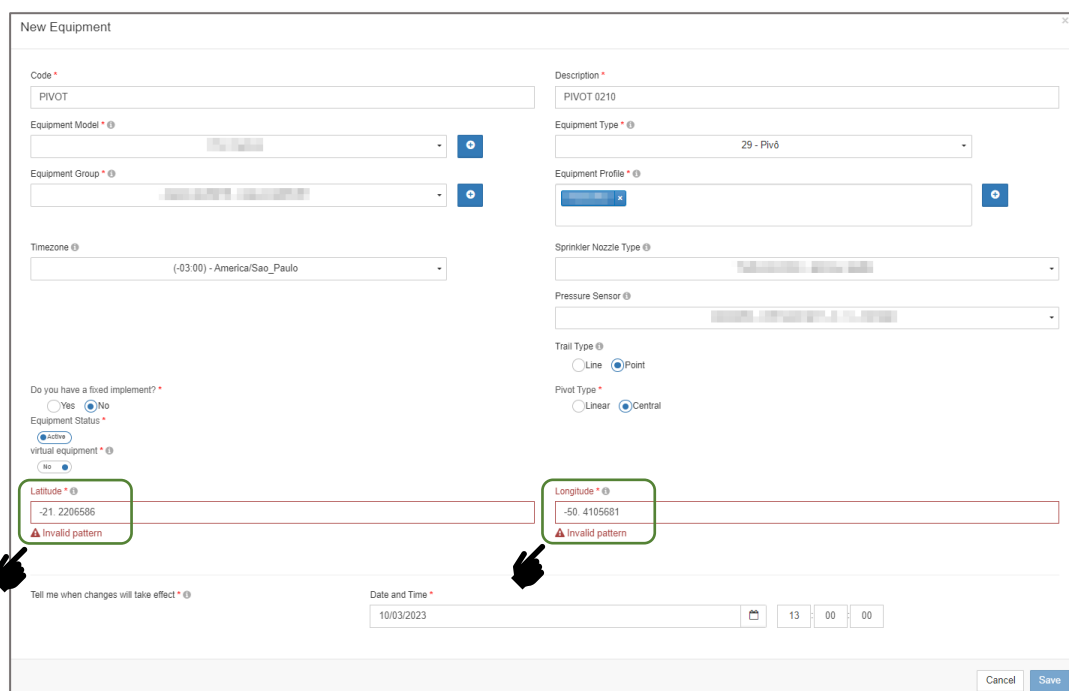
Images 10 and 11 - Buttons in expanded and contracted mode



Go to Top Menu > Maps > Top right menu > Options and Status Legend

1.2.2 Records - Equipment

Improvement made in the **Equipment Registration**, for **Equipment Type 29- Pivot**, in order to not allow saving when inserting spaces in the **"Latitude"** and **"Longitude"** fields, the message **"Invalid Pattern"** will be displayed.



The screenshot shows the 'New Equipment' form with the following details:

- Code:** PIVOT
- Description:** PIVOT 0210
- Equipment Model:** (empty)
- Equipment Type:** 29 - Pivô
- Equipment Group:** (empty)
- Equipment Profile:** (empty)
- Timezone:** (-03:00) - America/Sao_Paulo
- Sprinkler Nozzle Type:** (empty)
- Pressure Sensor:** (empty)
- Trail Type:** ☐ Line ☒ Point
- Pivot Type:** ☐ Linear ☒ Central
- Do you have a fixed implement?:** ☐ Yes ☒ No
- Equipment Status:** ☒ Active ☐ Virtual equipment
- Latitude:** -21. 2206586 (Invalid pattern)
- Longitude:** -50. 4105681 (Invalid pattern)
- Date and Time:** 10/03/2023 13:00:00

Red boxes highlight the Latitude and Longitude fields, and red arrows point to the 'Invalid pattern' error messages below them.

Image 12 - When inserting spaces in the Latitude and Longitude fields, a message is displayed indicating that it is an invalid pattern

Go to Main Menu > Records > Equipment > Equipment > Equipment Types > 29- Pivot > Pivot Type > Central > Latitude and Longitude

1.2.3 PBI Reports - Operational Variables

Improvement made to the PBI Report "Operational Variables", in the "Summary Hours" tab, by adding the **% Total Operation (h)** field in "Tool Tips". The addition of this field consists of including the percentage value when exporting the data.

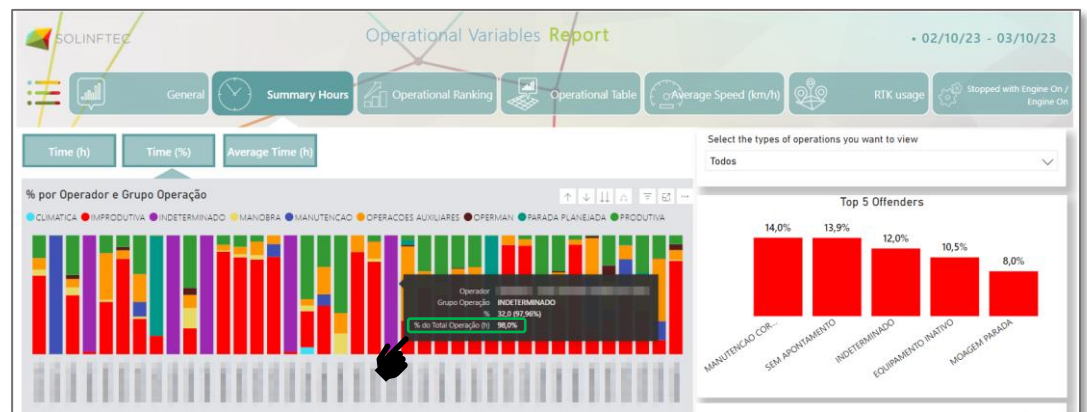


Image 13 - New field % Total Operation (h)



Go to Main Menu > Reports > PBI > Operating Hours > Operational Variables > Summary Hours



Available for Sugarcane vertical environments.

1.3 Bugs

1.3.1 PBI Reports – Supply (Vertical Grains)

Adjustment made to the “Supply” button on the PBI “Supply” Report home page, so when clicking on the button, the user will be directed to the “Supply” tab.



Go to Main Menu > Reports > PBI > Fleet Supply



Available for Vertical Grains environments.

In case of doubt or further clarification, please contact us via email suporte@solinftec.com.br or call +55 18 3622 2270