



# Progetto BeeDiversity

IR V-A Ita-Slo 2014-2020

## WP3.2 Azione 12 - Test e messa a punto del modello di gestione per la sostenibilità economica e ambientale di buone pratiche per la conservazione e promozione della biodiversità

<http://beehive-asda2.s3-website-eu-west-1.amazonaws.com/#/home>

Inserire il nome utente: [admin@beediversity.it](mailto:admin@beediversity.it) e la password Password01

### Esiti dell'attività di testing

Utilizzo da smartphone o da PC: non si nota alcuna differenza tra i due dispositivi, stessi dati e stesse cose. Provata la procedura da smartphone su due telefoni diversi, sempre stessa cosa e uguale a PC.

Manca localizzazione su mappa delle arnie.

Si ritiene tuttavia un problema di secondaria importanza dato che l'uso da parte di ciascun utente è limitato alle proprie arnie, quindi non è di particolare interesse la conoscenza della localizzazione delle altre e della loro denominazione.

Lingua: solo in inglese. Si ritiene un ostacolo per gli apicoltori in particolare per la sezione nella quale vanno inseriti i dati manualmente, come ad esempio l'inserimento del nome botanico nome delle specie.

Non sono visibili i dati in tempo reale

Non è possibile scaricare i dati originari. Sarebbe opportuno averli, anche per verificare su che base di dati sono calcolate le medie (e capire se i valori "zero" che si vedono nei pochi grafici giornalieri disponibili sono stati eliminati).

Quando compaiono i messaggi di alert non è specificato a quando risale il superamento della soglia impostata.

Nei grafici non è presente l'unità di misura di riferimento sugli assi (aiuterebbe anche a capire quale è l'asse di riferimento da considerare essendoci sempre due serie di dati per ciascun grafico). Non sarebbe male se il colore della serie di dati fosse lo stesso dell'asse di riferimento. Ovvio che poi si capisce che scritta a destra-asse a destra e sinistra-sinistra.

Il **peso**: la scala è molto variabile.

Nei grafici di periodo **annuale** sono indicati solo i valori medi mensili (suppongo, perché c'è un solo valore per mese) ma senza alcuna indicazione della dispersione dei dati (DS; ES) e N dati (su cosa è ricavata la media, se dalla media di tutti i valori mensili o media delle medie giornaliere).

Nei grafici **giornalieri** è riportato un periodo che non termina con "oggi" e non corrisponde a un mese. Su che base? Ci sono dei valori a 0 una volta al giorno (controllare che questi outsider non concorrano alla media giornaliera/mensile).

Non è possibile selezionare la finestra temporale di riferimento, sarebbe comodo (può essere considerato come un ulteriore sviluppo dell'APP).

In diversi casi (vedi specifiche sotto) i *range* dei valori sono "strani". Temperature molto basse, anche UR molto basse. Peso dell'arnia in un caso arriva a quasi 100kg che sembrano troppi. Problema di taratura dei sensori? O di scala?

Note arnia per arnia:

| Nome arnia     | 1 giorno              | 1 settimana | 1 mese                       | 1 anno   |
|----------------|-----------------------|-------------|------------------------------|--|
| 100 (XS)       | No dati               | No dati     | No dati                      | Dati da dicembre 2021<br>Valori di temperatura esterna assurdi<br>Indicato solo il valore medio mensile (suppongo), senza SD o ES, senza n dati...<br>Manca T interna<br>Manca UR interna, UR esterna pare strana<br>Non c'è dato contavoli<br>Peso arnia impostato diverso dalle altre (da valori negativi) |
| 18 002         | No dati               | No dati     | Temp sembra ok<br>UR no dati | No dati  |
| 21.036 Antenna | Temp si<br>UR no dati | No dati     | temp si<br>UR no dati        | No dati  |

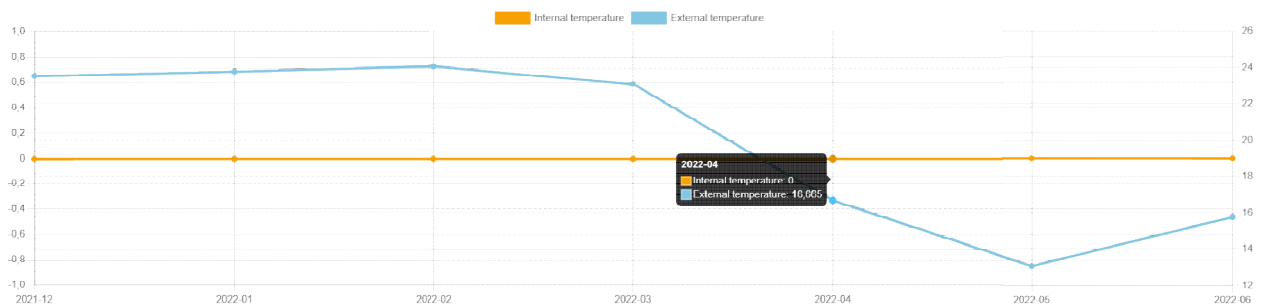
| Nome arnia                | 1 giorno | 1 settimana | 1 mese   | 1 anno  |
|---------------------------|----------|-------------|--|---|
|                           |          |             | Voli-peso si   |   |
| 21.046                    | No dati  | No dati     | Temp si<br>UR no dati<br>Voli-peso si  | No dati   |
| 21.053                    | No dati  | No dati     | Temp si<br>UR no<br>Voli-peso si   | No dati   |
| 21.056 Antenna            | No dati  | No dati     | Temp si<br>UR no<br>Voli-peso si   | No dati   |
| CANADARE – HEART - 2      | No dati  | No dati     | No dati  | No dati   |
| CANADARE – SCALE - 006    | No dati  | No dati     | No dati  | Da dic 2021 a mar 2022<br>Manca: tempi nt, UR int, voli                 |
| CRICG-SRCE-016            | No dati  | No dati     | No dati  | C'è solo T int, UR int  |
| CRICG-TEHTNICA-012        | No dati  | No dati     | Temp si<br>UR si<br>Voli no<br>Peso si   | Periodo feb 2022-lug 2022<br>Manca voli                                 |
| DOSSETTO-HEART-2          | No dati  | No dati     | Solo periodo 27-31 luglio 2022<br>Temp int si<br>Temp est no<br>UR int si<br>UR est no<br>Voli-peso no | Da dic 2021<br>Temp int si, est no<br>UR int si, est no<br>Voli-peso no |
| DOSSETTO-SCALE-004        | No dati  | No dati     | Temp si (valori molto bassi)<br>UR si<br>Peso si<br>Voli no  | Da dic 2021<br>Valori strani  |
| DRULOVKA-SRCE-026         | No dati  | No dati     | Periodo 18-30 luglio<br>T e UR solo interna<br>Voli-peso no  | Da gennaio 2022<br>T e UR solo interna<br>Voli-peso no                  |
| DRULOVKA-TEHTNICA-014     | No dati  | No dati     | No dati  | No dati   |
| GAMBERI-HEART-2           | No dati  | No dati     | No dati  | No dati   |
| GAMBERI-SCALE-005         | No dati  | No dati     | No dati  | No dati   |
| KRALOVI-PARK-SRCE-2       | No dati  | No dati     | No dati  | No dati   |
| KRALOVI-PARK-TEHTNICA-015 | No dati  | No dati     | Periodo 17-31 luglio 2022<br>Temp si<br>UR si  | Da febbraio 2022<br>Mancano i voli                                      |

| Nome arnia                | 1 giorno | 1 settimana | 1 mese   | 1 anno   |
|---------------------------|----------|-------------|--|--|
|                           |          |             | Peso si<br>Voli no   |  |
| KRALOVI-TEHTNICA-009      | No dati  | No dati     | T si<br>UR si<br>Peso si<br>Voli no                          | Da gennaio 2022<br>Mancano i voli                                    |
| NI NAMESCENA-TEHTNICA-010 | No dati  | No dati     | No dati  | No dati  |
| O.S.A.T.L.-SRC3-2         | No dati  | No dati     | No dati  | Da dicembre 2021<br>T solo int<br>UR solo int<br>Voli peso no        |
| O.S.A.T.L.-TEHTNICA-011   | No dati  | No dati     | Periodo 17-30<br>luglio<br>T e UR solo<br>esterna<br>No voli |  |
| OREHEK-SRCE-2             | No dati  | No dati     | No dati  | Da dicembre 2021<br>Temp solo inte<br>UR solo int<br>No peso no voli |
| OREHEK-TEHTNICA-013       | No dati  | No dati     | T UR si<br>Peso si<br>Voli no                                | T UR si<br>Peso si<br>Voli no  |

## 100 XS

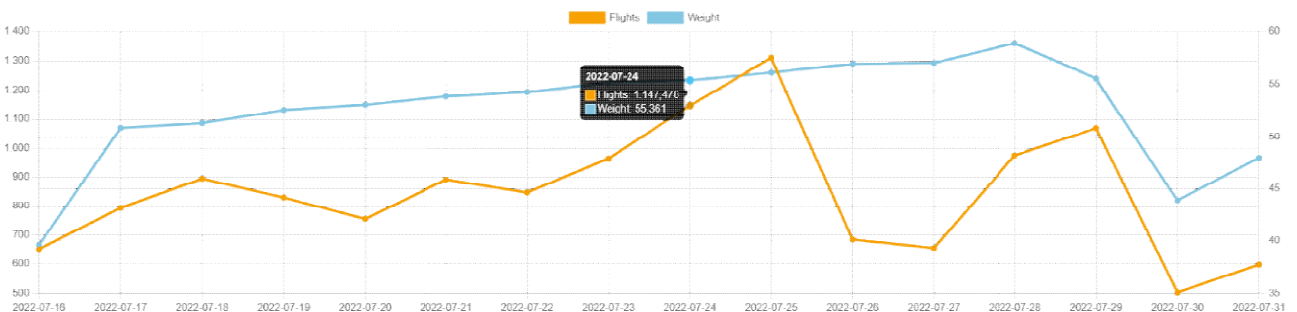
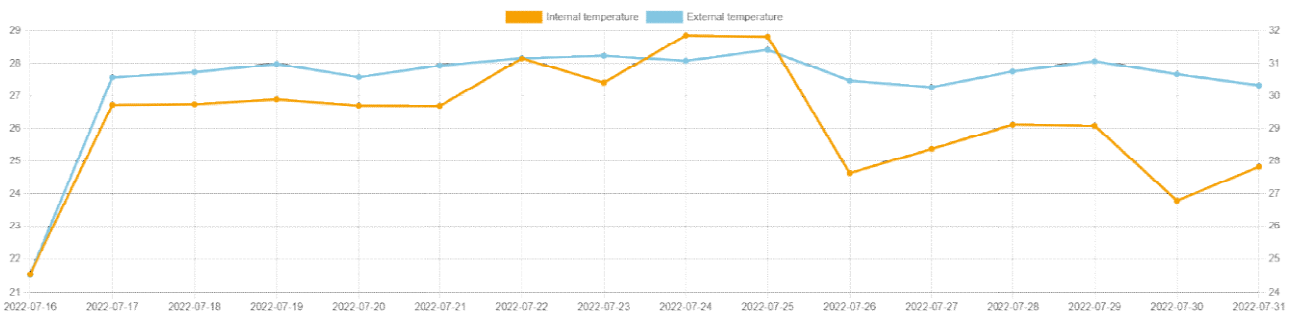
### Temperatura

Valori di temp esterna assurdi (es a maggio più bassa di dicembre, 16°C a luglio)



18 002

Questo sembra ok

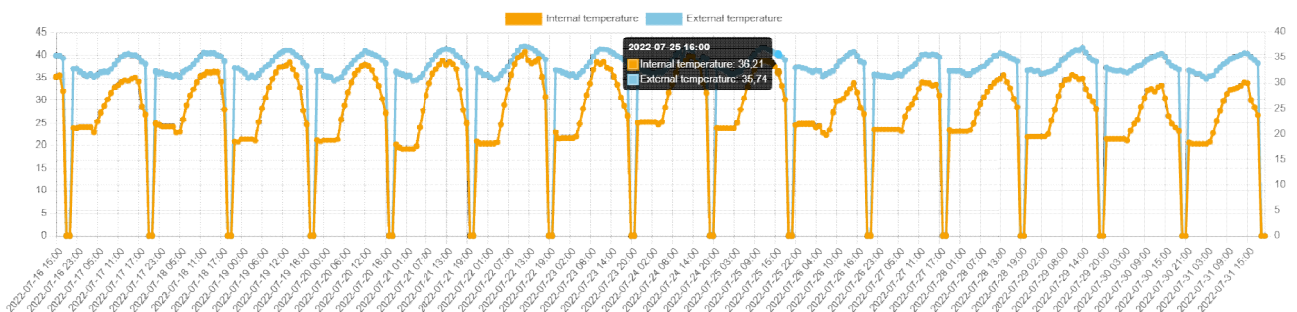


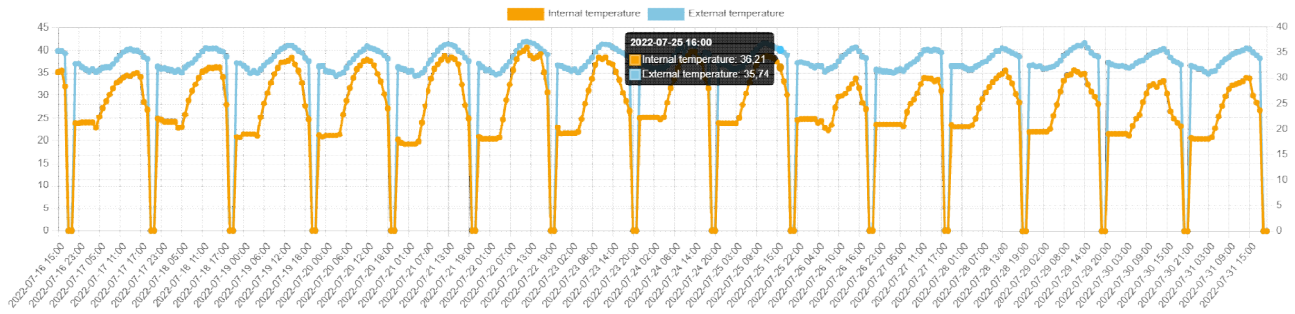
### 21.036 Antenna

Temperatura dati giornalieri

Periodo 16-31 luglio (e agosto?)

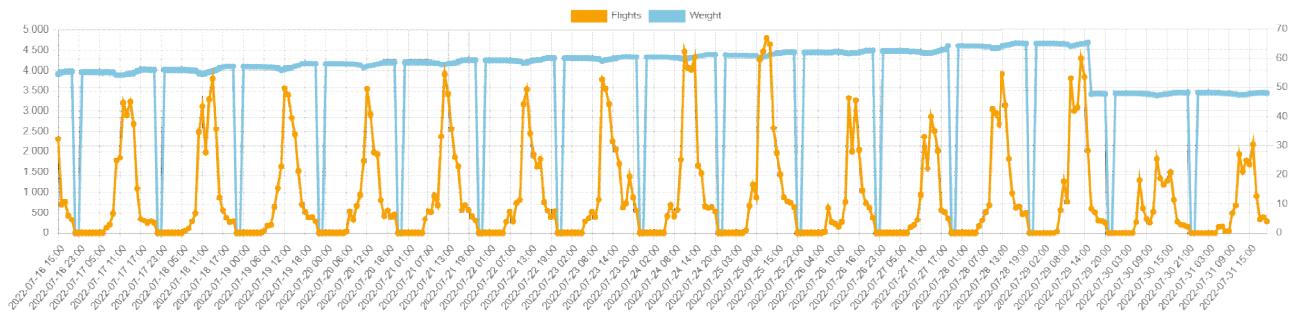
Ci sono dei valori di temp outsider a 0°C ogni giorno, di per sé non un problema sempre che nel calcolo delle medie giornaliere poi venga tolto



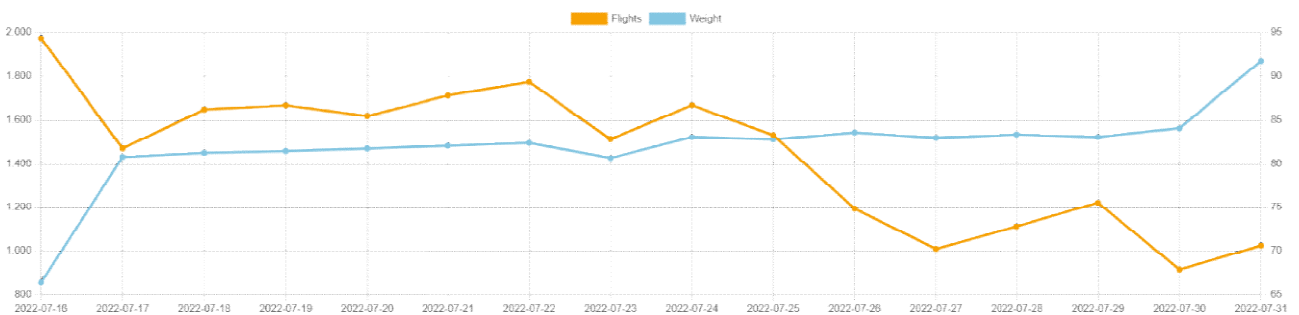


Anche in peso uno 0 ogni giorno

C'è forse stata sciamatura il 29 luglio? Diminuzione peso e diminuzione voli

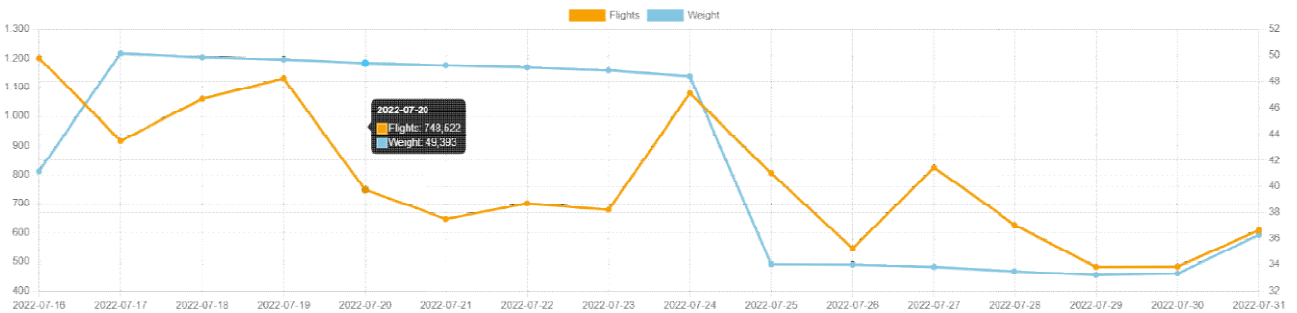
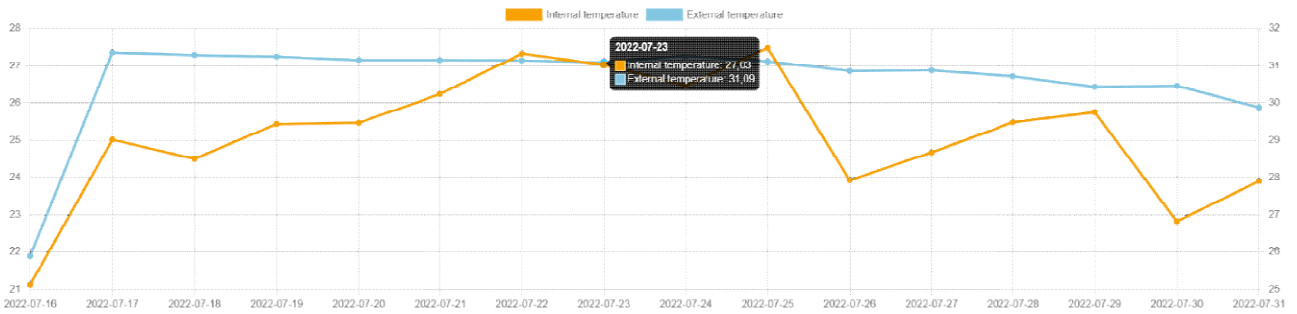


N voli in diminuzione e peso in aumento (significato?).



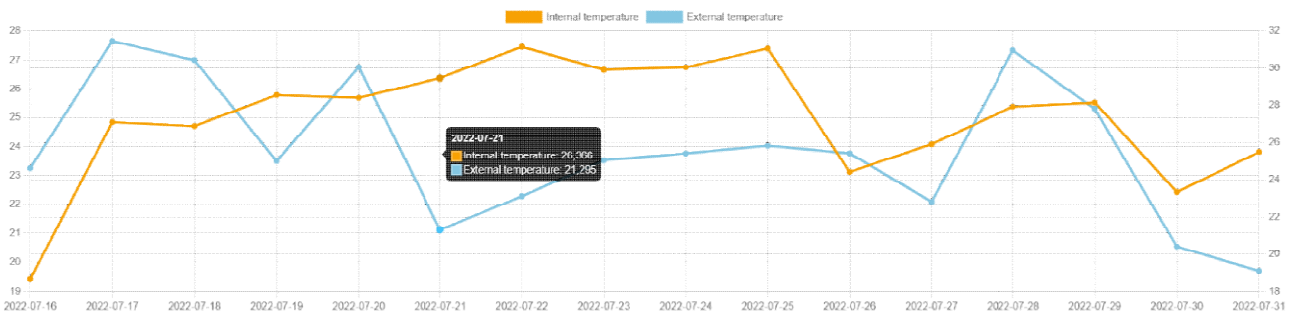
### 21.046

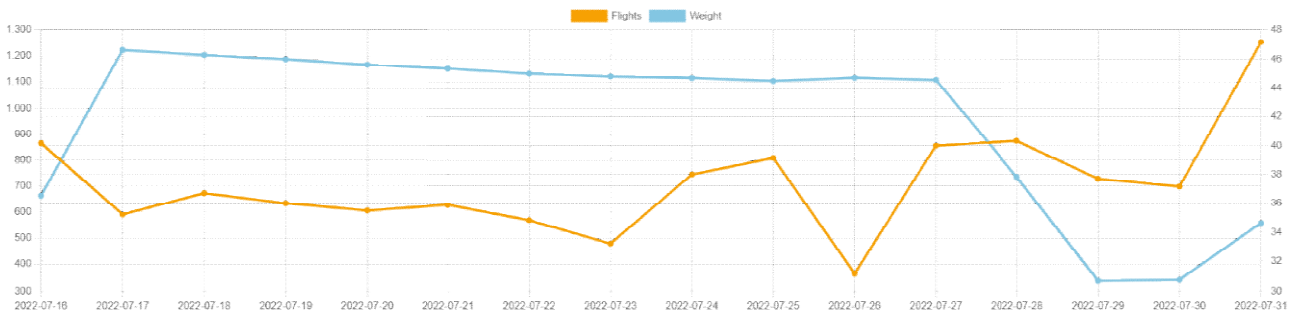
Ci sono due alert, per temperatura e peso, ma manca il riferimento a quando è stato superata la soglia che ha determinato l'alert.



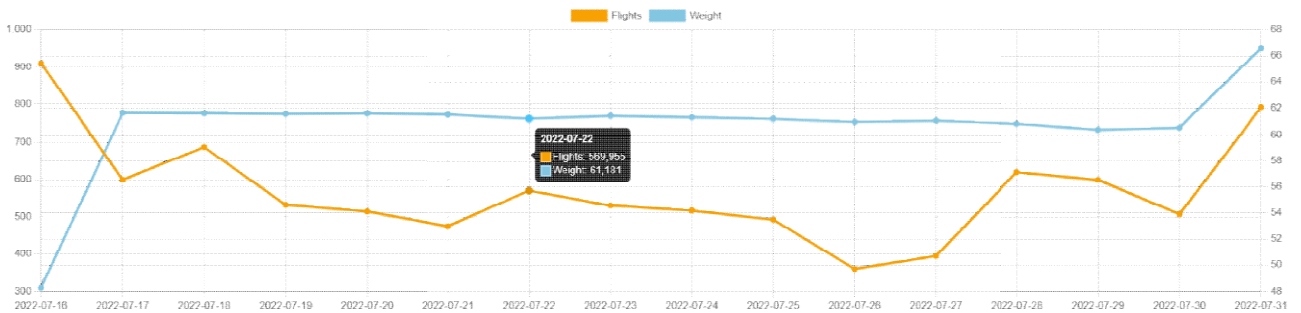
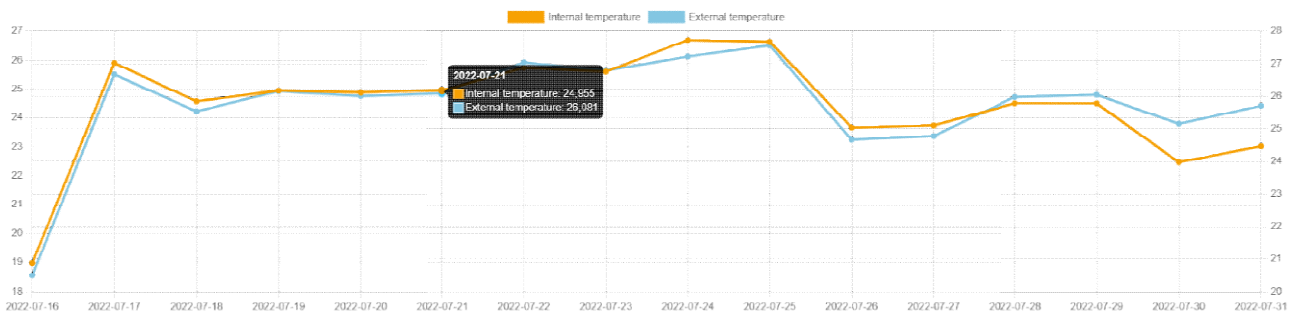
### 21.053

Temperatura: i valori di T est sono bassi, dove è questa arnia?



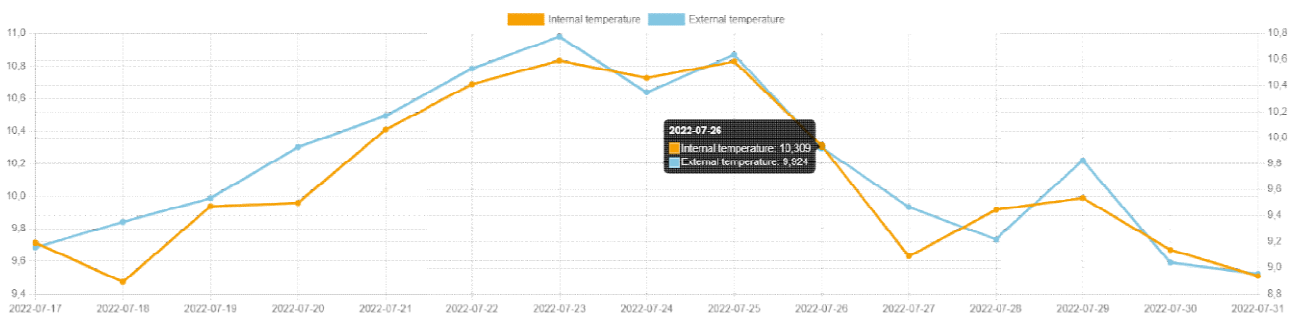


### 21.056 Antenna



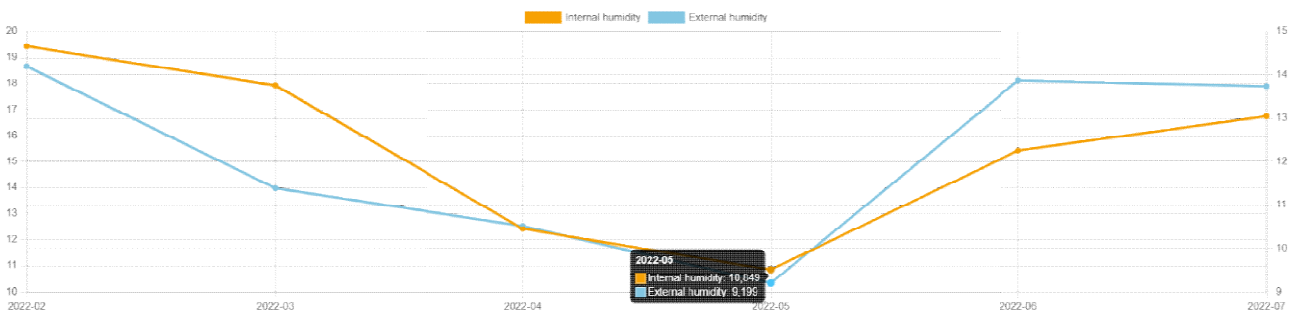
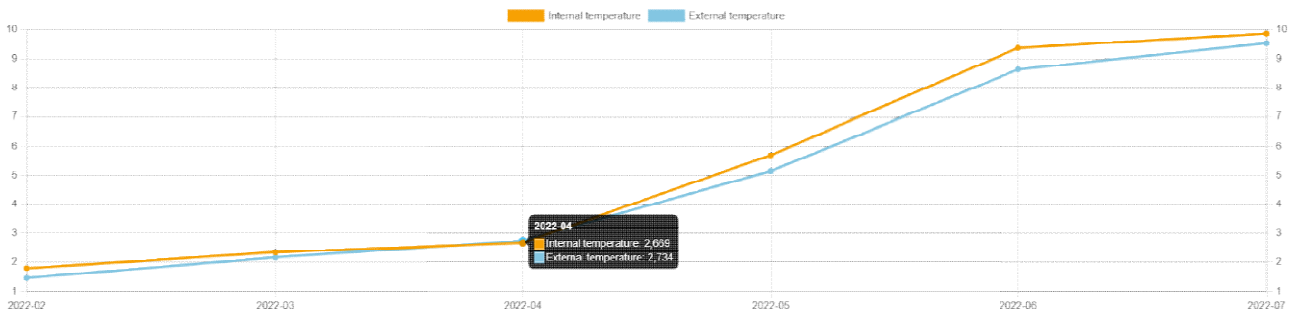
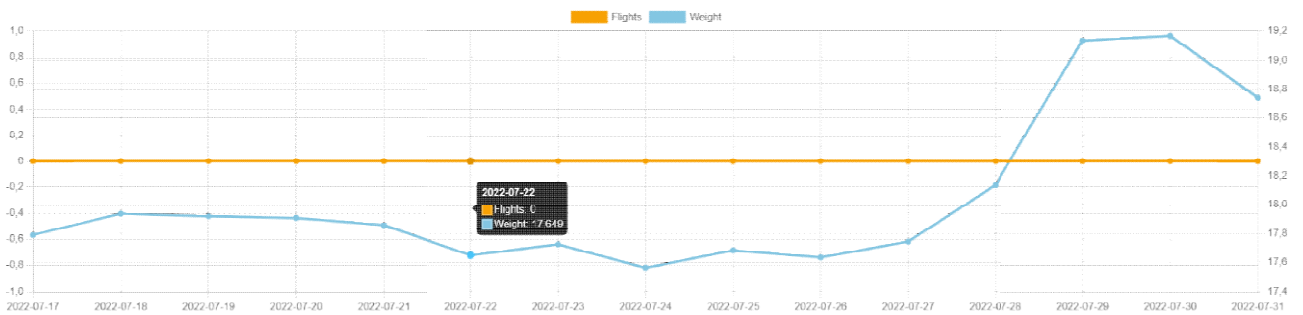
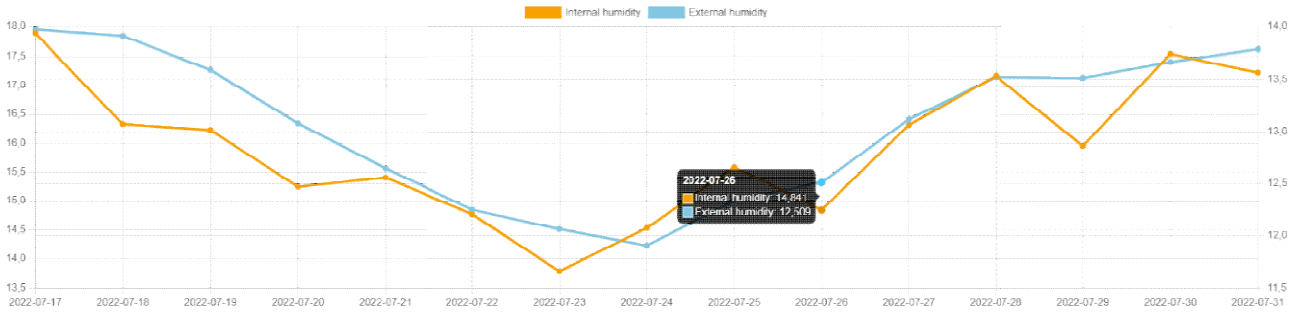
### CRICG-TEHTNICA-012

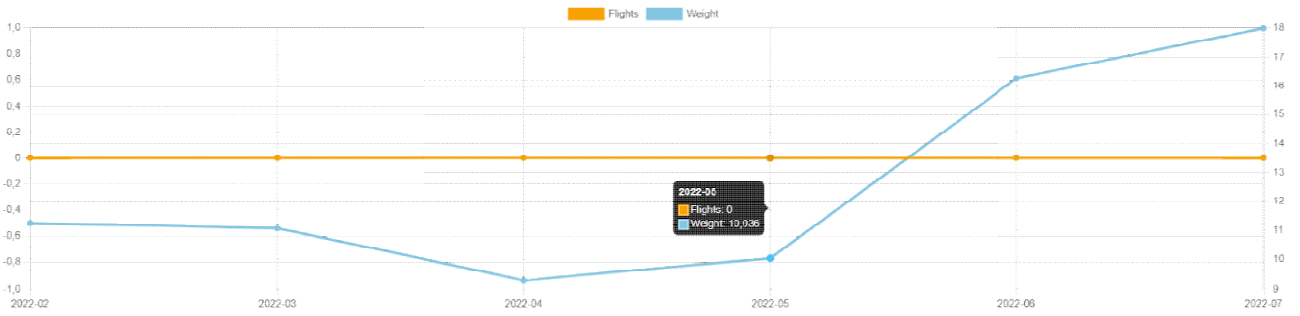
Le temperature sono bassissime



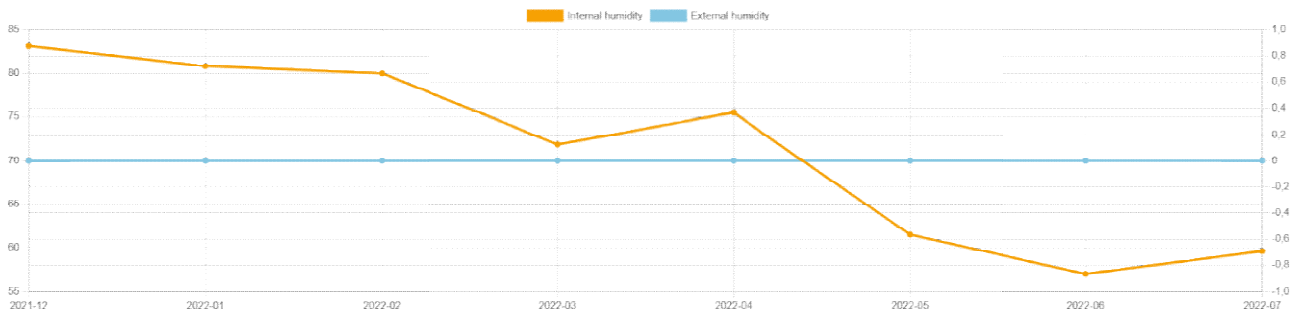
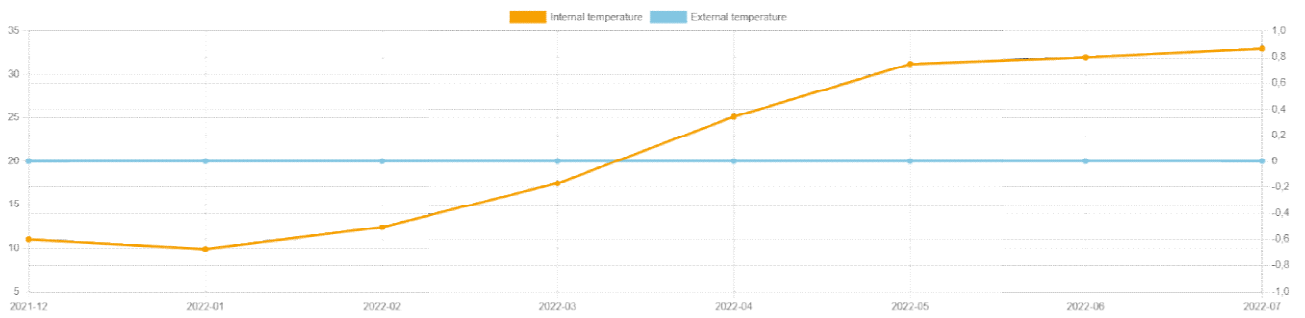


### Possibile UR così bassa?



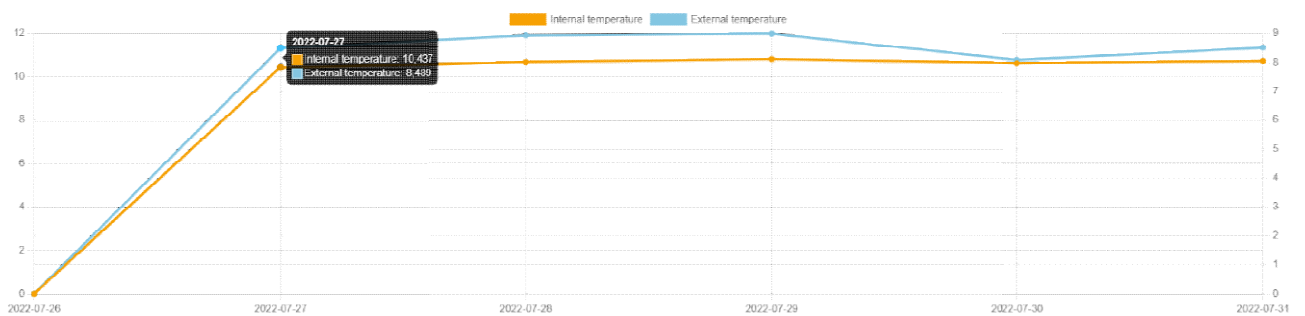


## DOSSETTO-HEART-2

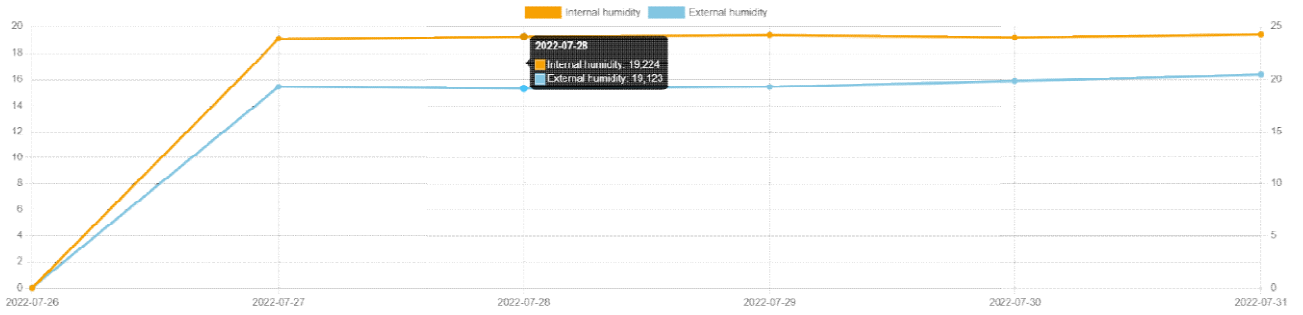


## DOSSETTO-SCALE-004

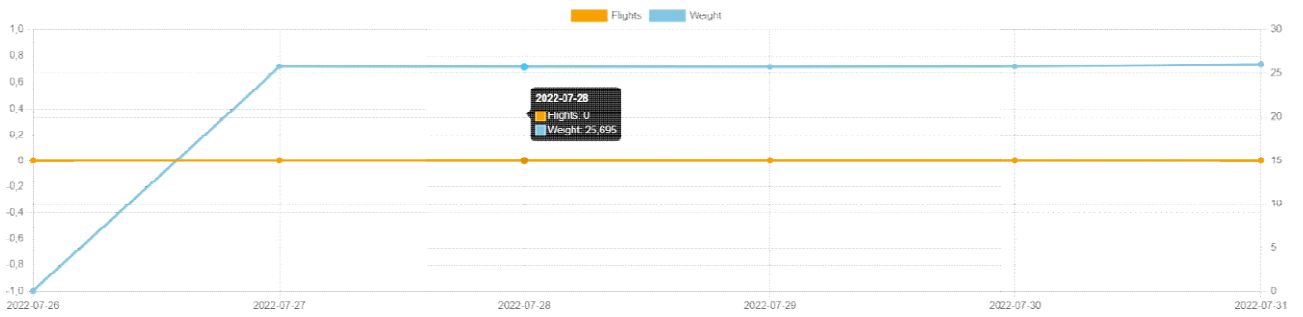
Temperature molto basse (?)



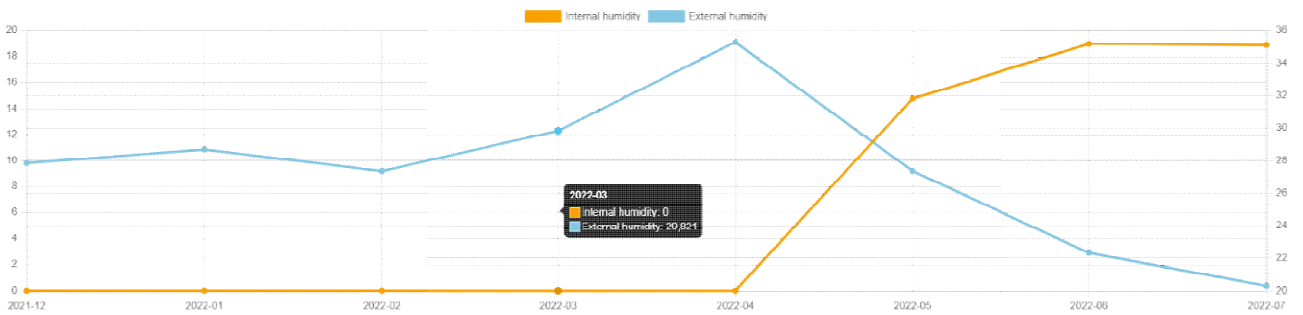
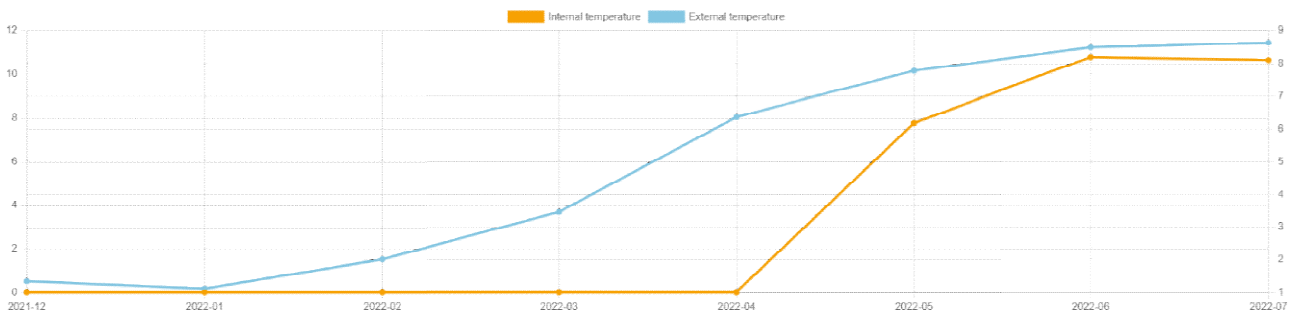
### UR valori molto bassi

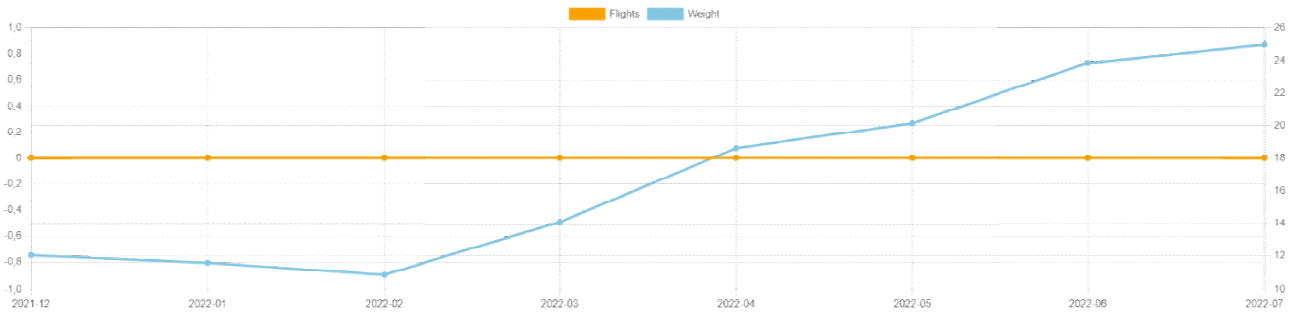


### Peso qualcosa non va

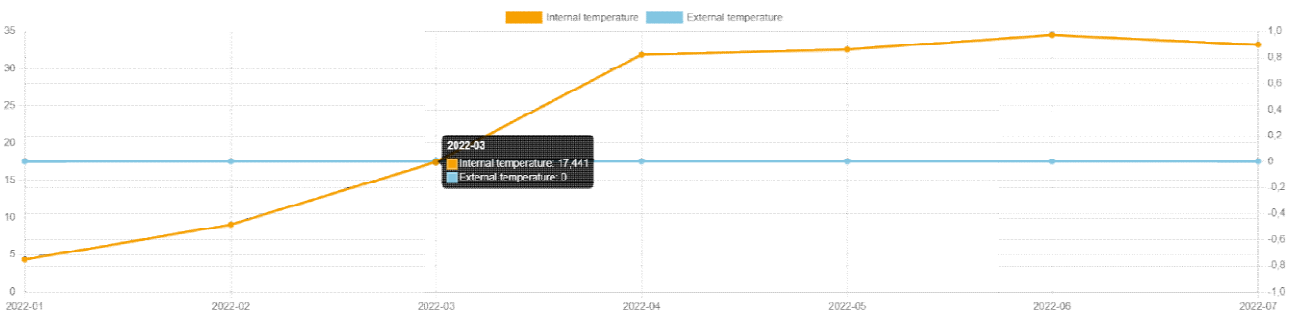
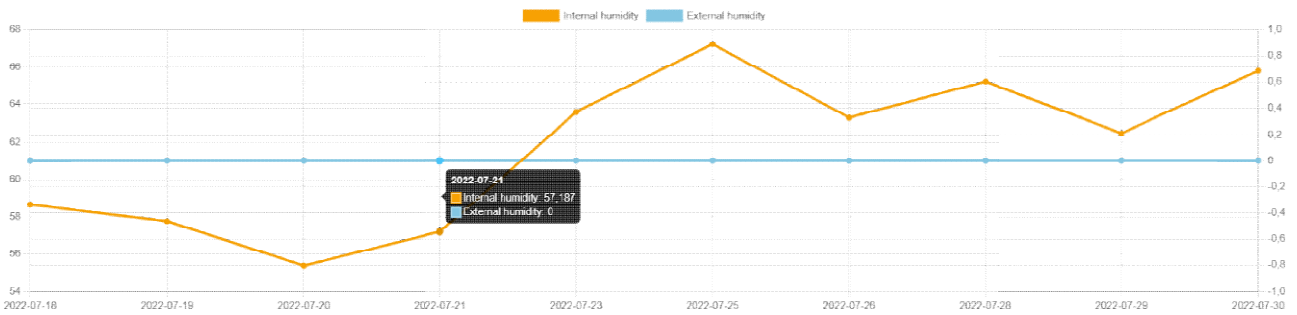
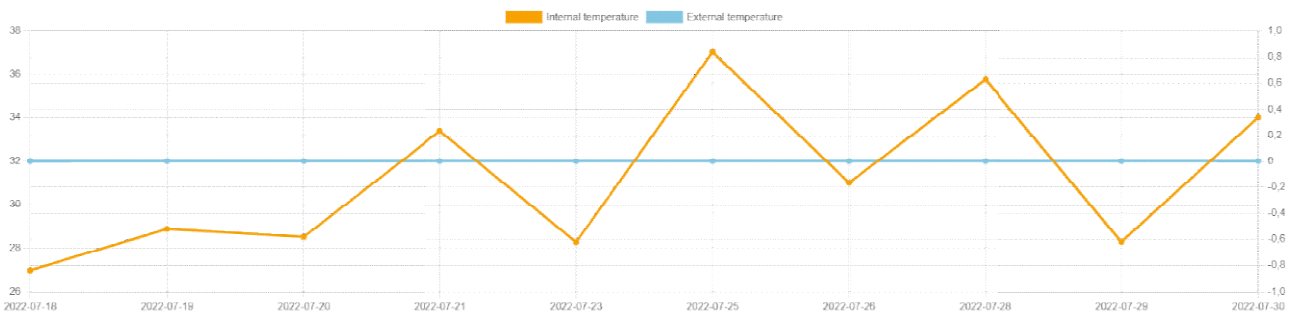


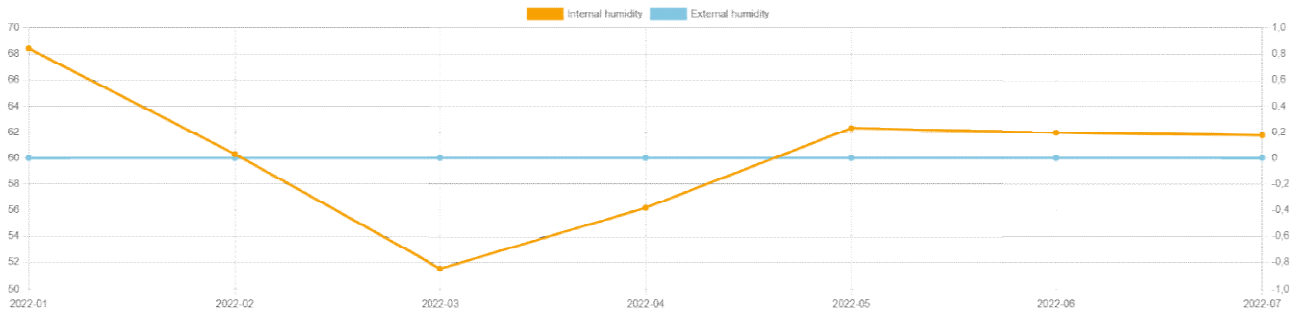
### Temp e UR annuali qualcosa non va





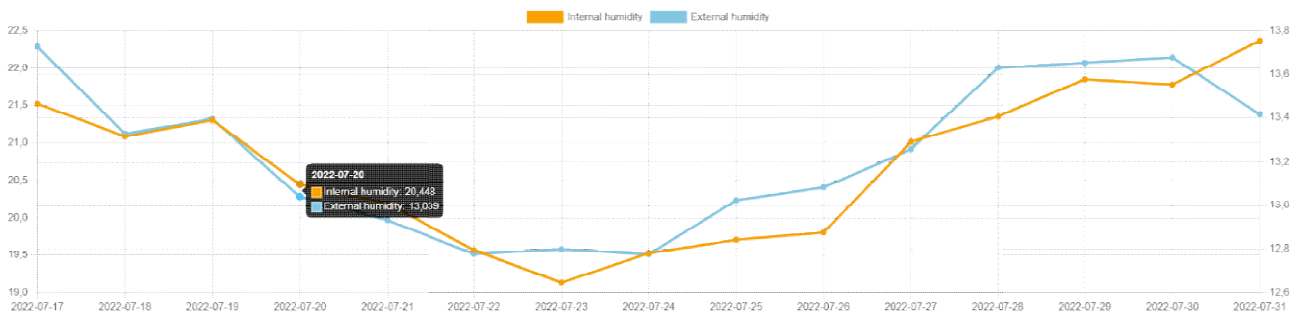
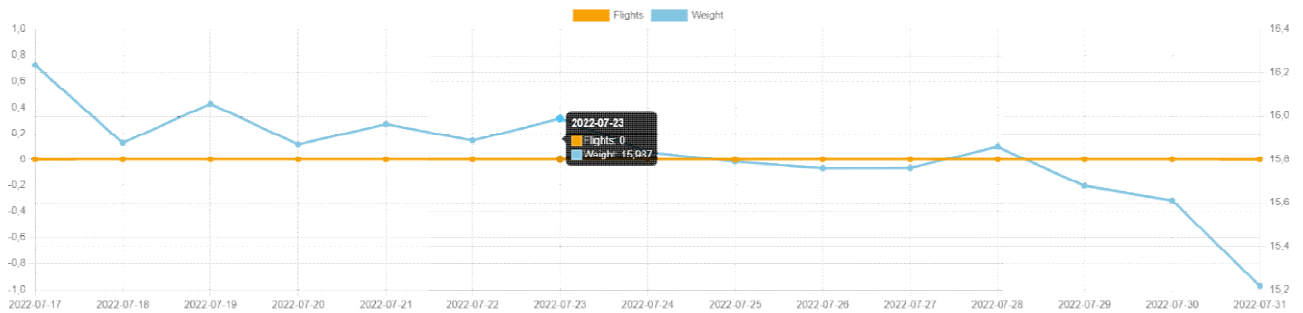
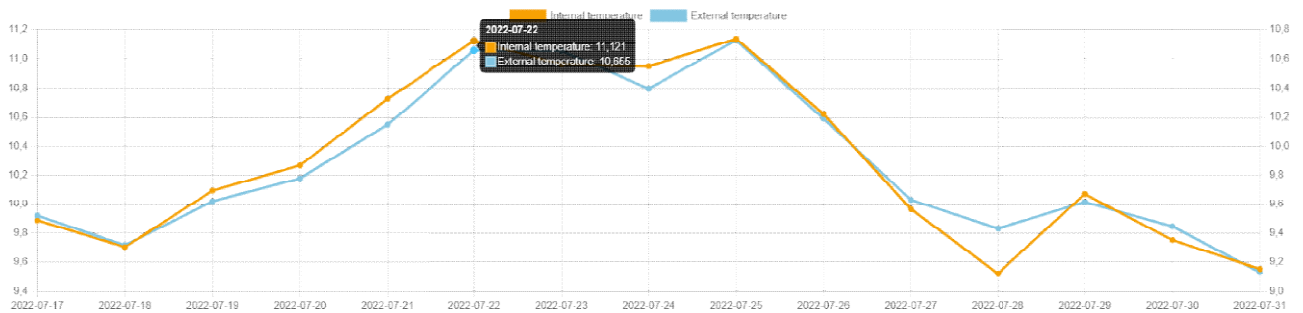
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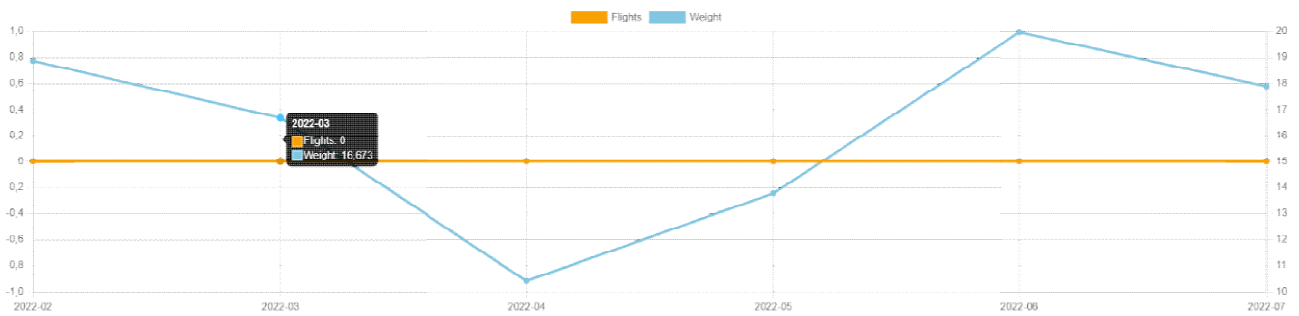
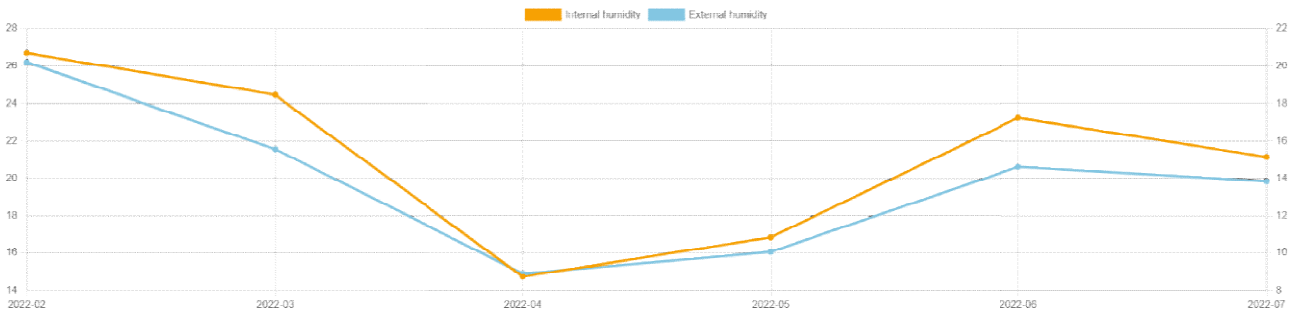
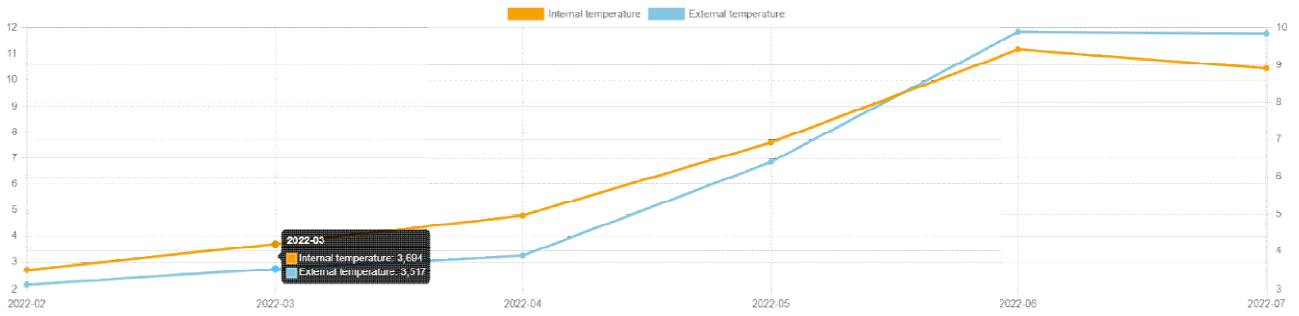




### KRALOVI-PARK-TEHTNICA-015

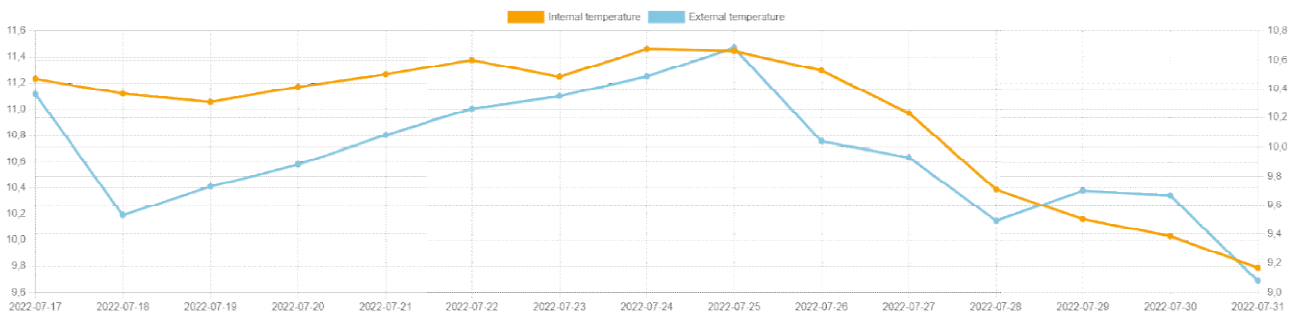
Valori di temperatura e UR sono molto bassi (??)

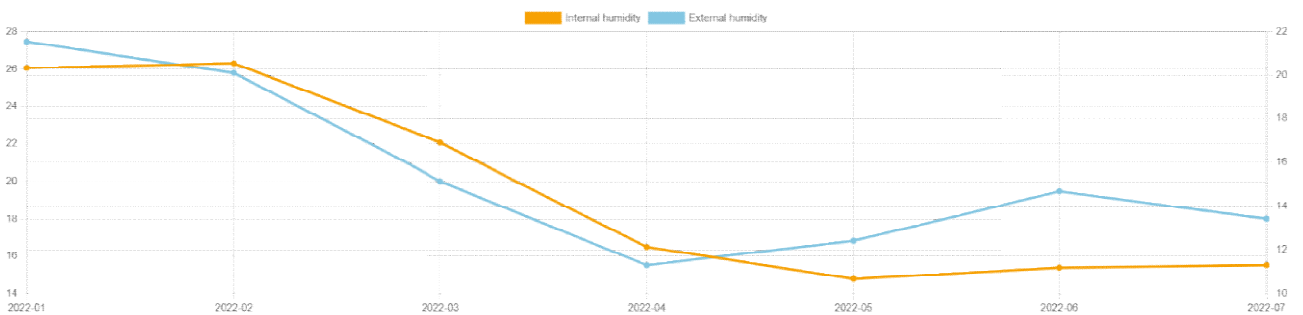
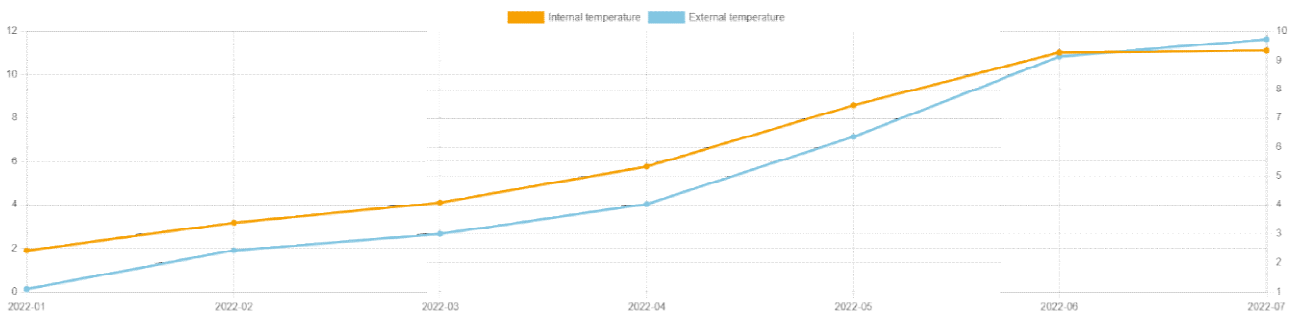
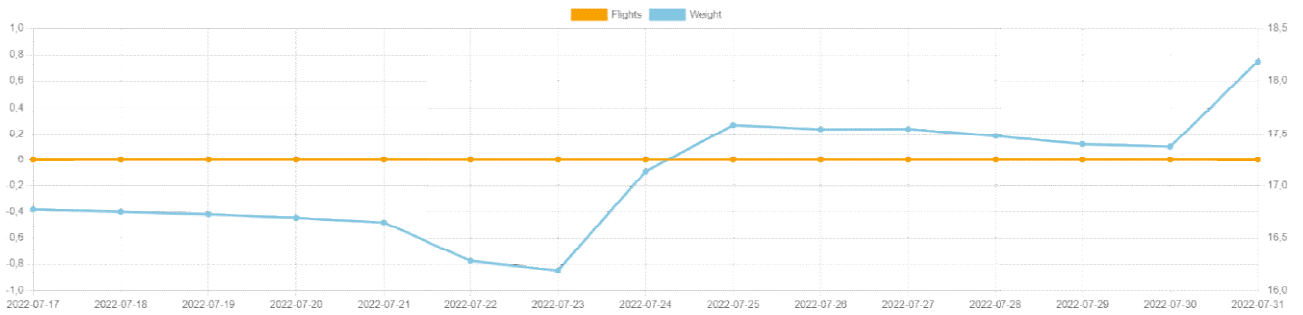
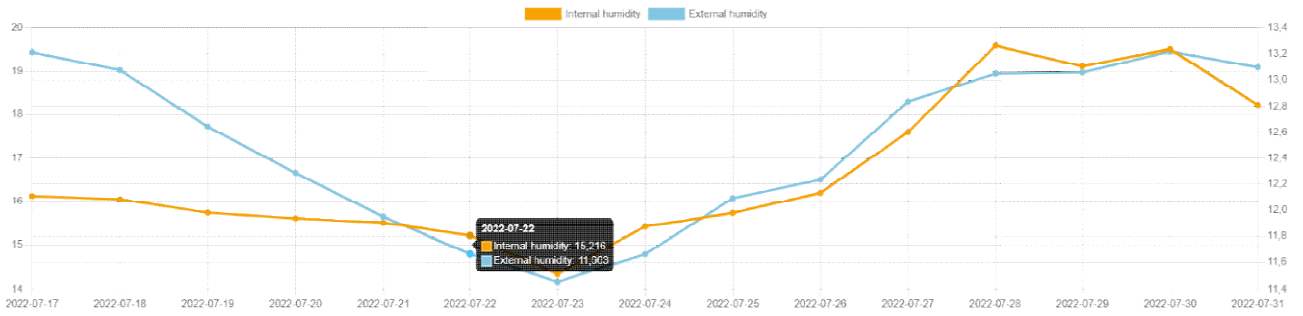


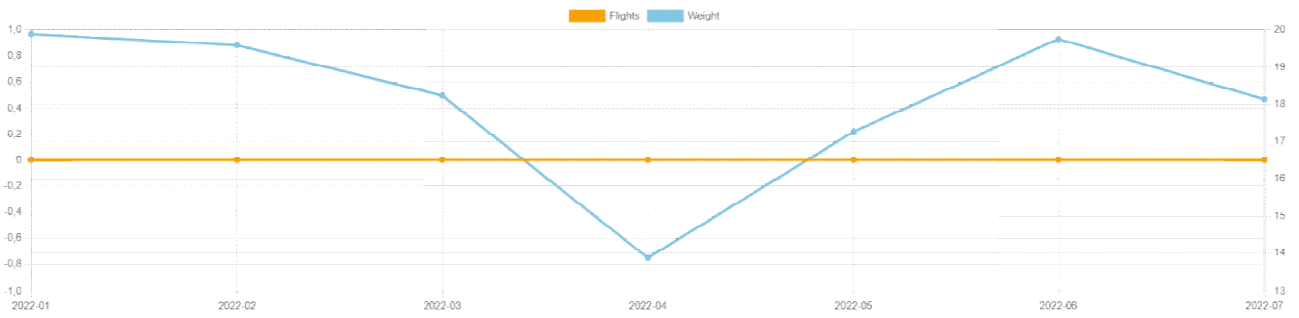


### KRALOVI-TEHNICA-009

Temperatura e UR valori bassi

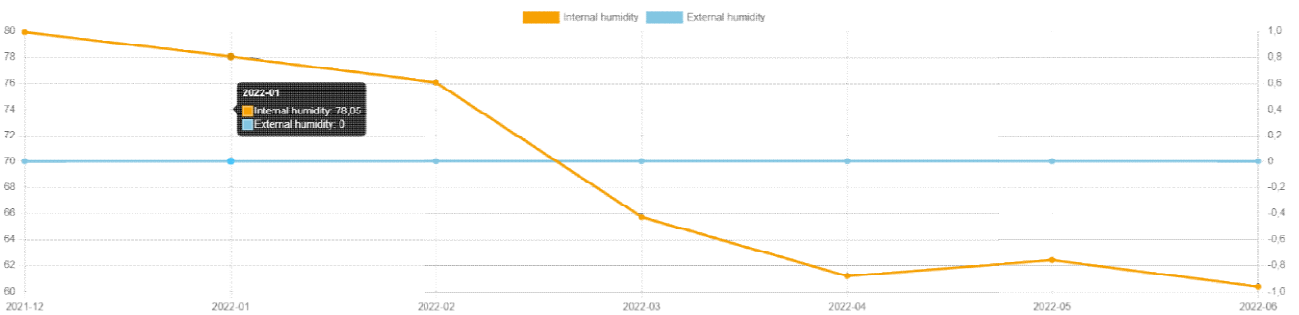
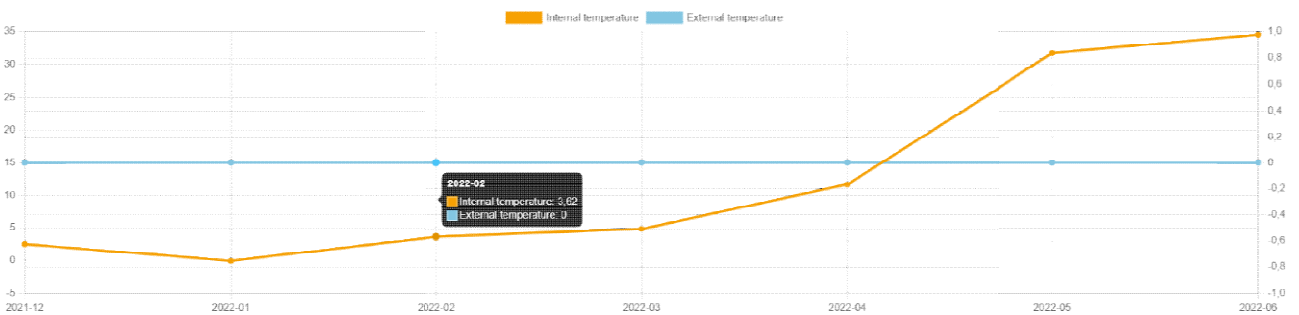






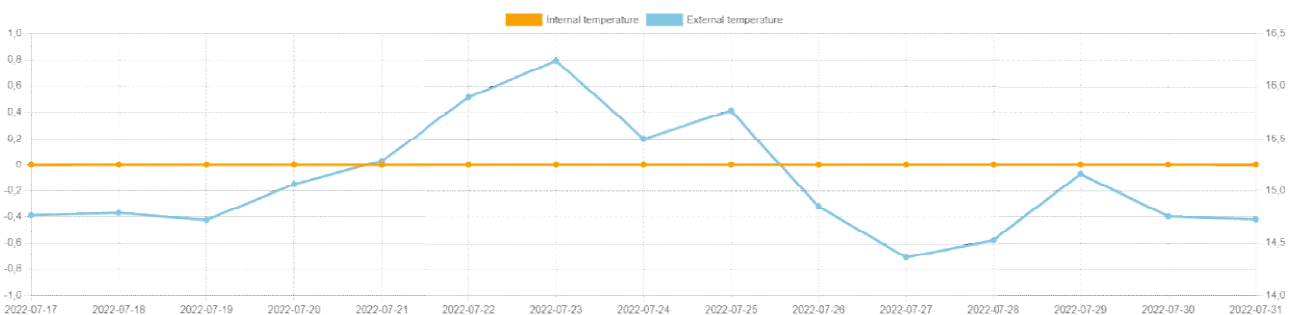
### O.S.A.T.L.-SRC3-2

Valori temp assurdi, non possono esserci meno di 5°C all'interno dell'arnia

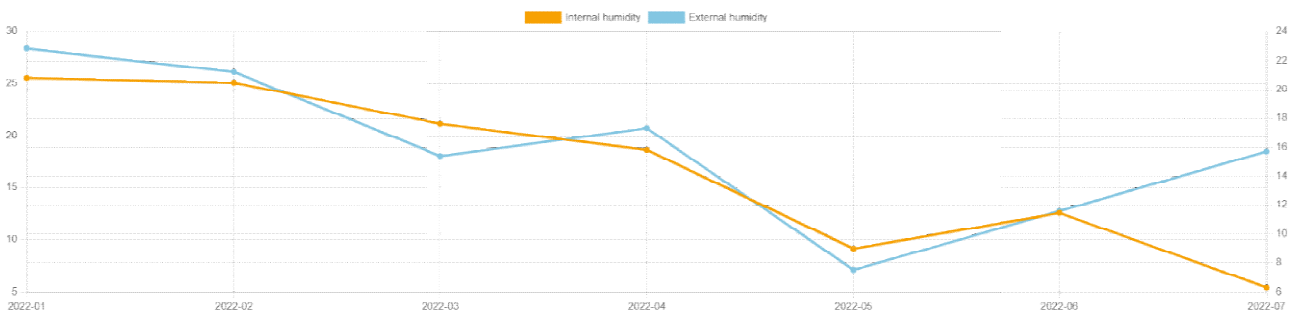
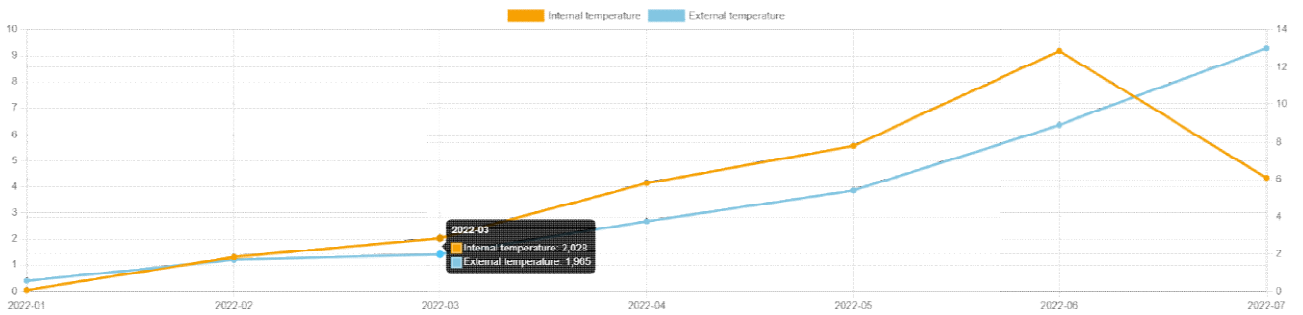
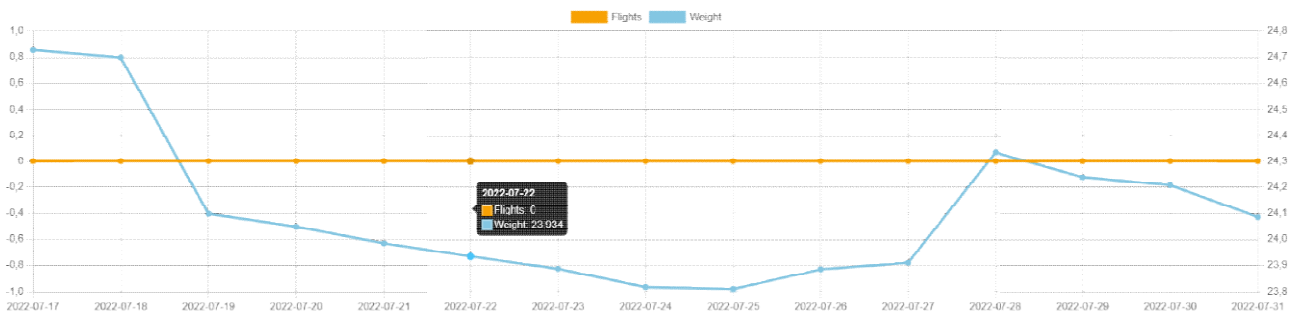
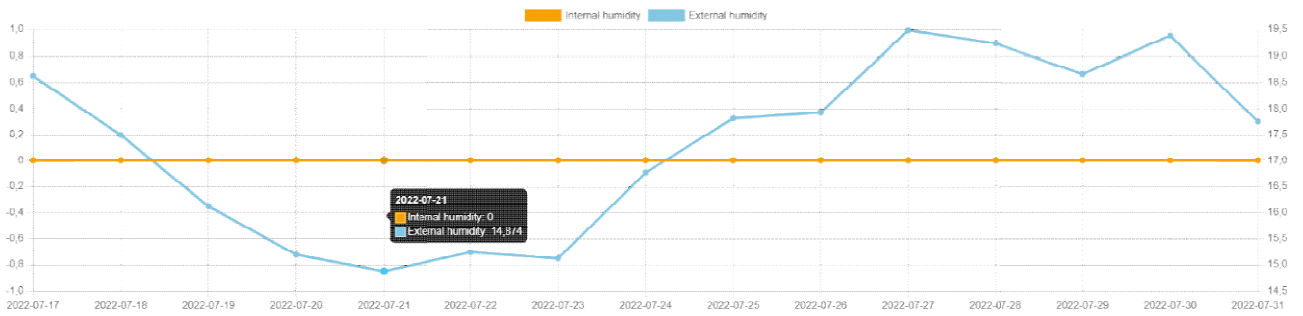


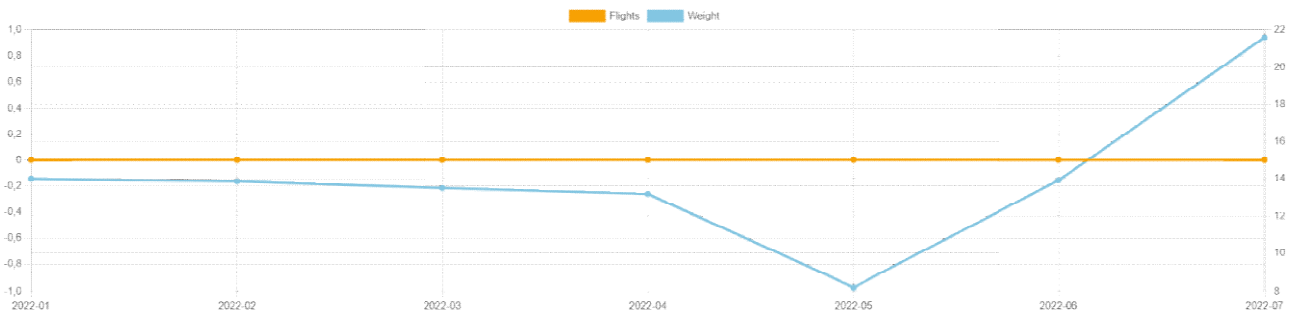
### O.S.A.T.L.-TEHTNICA-011

Temp e UR valori bassi



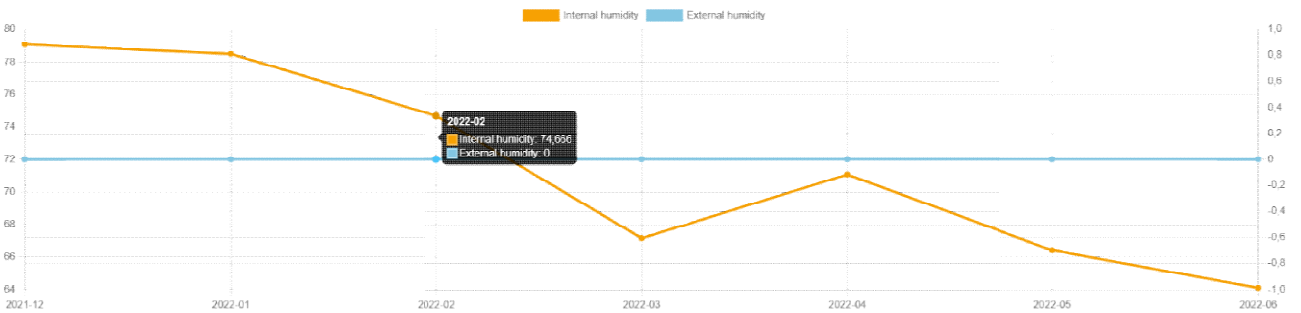
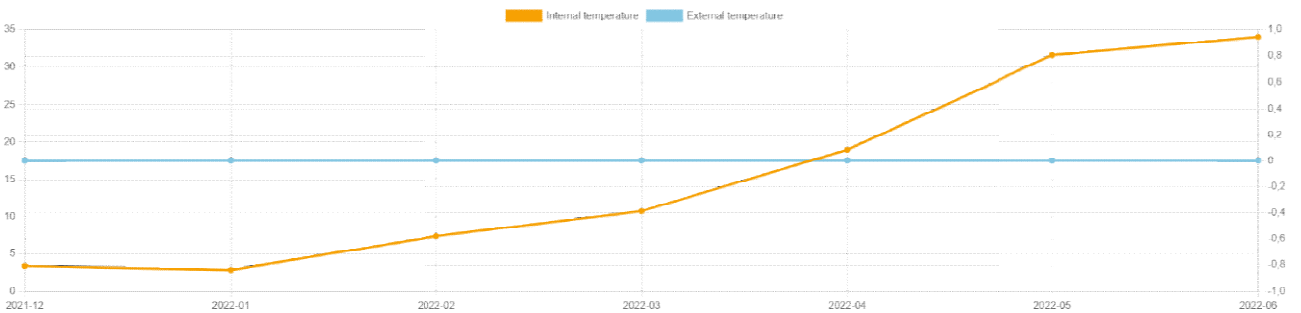




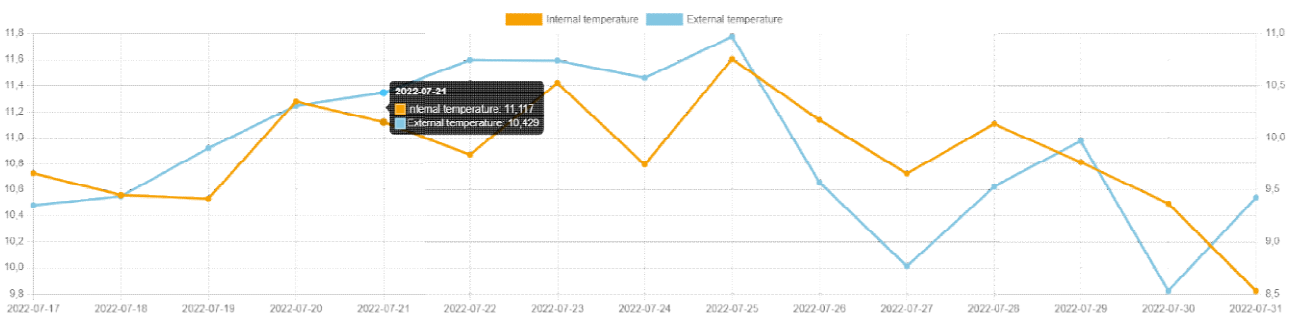


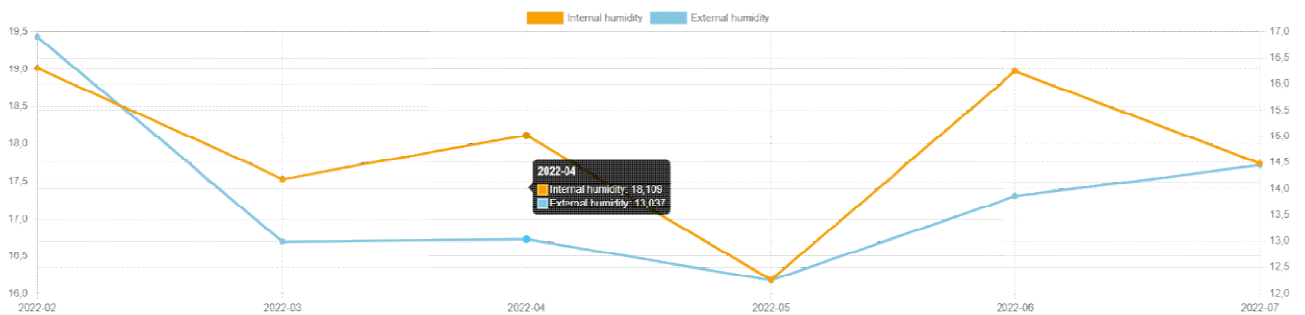
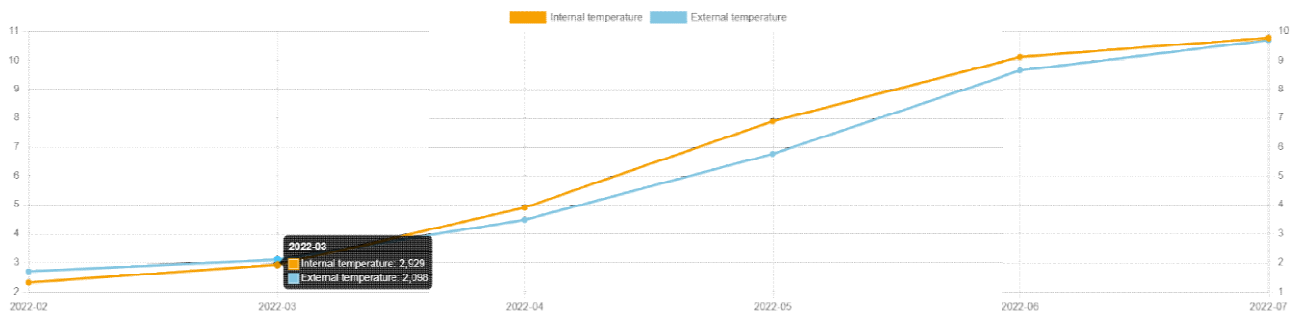
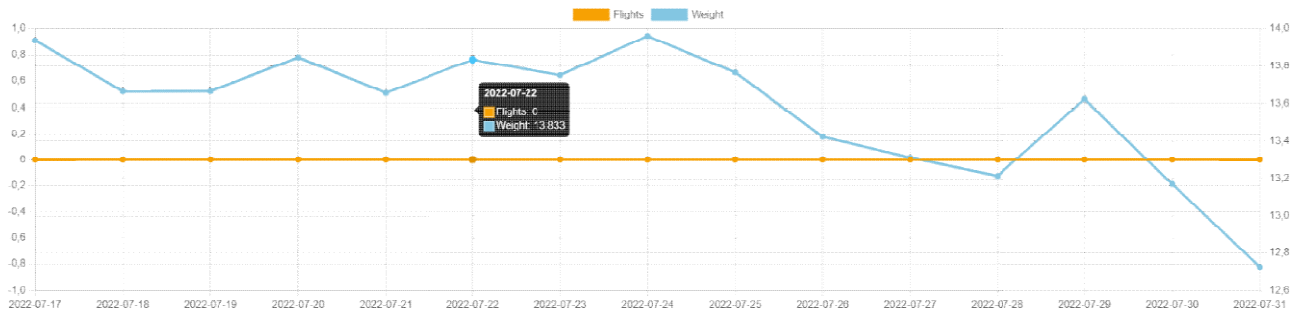
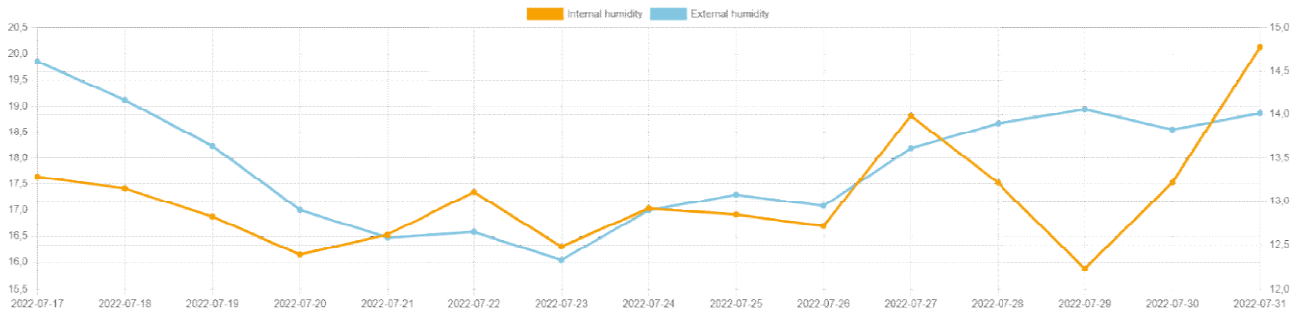
## OREHEK-SRCE-2

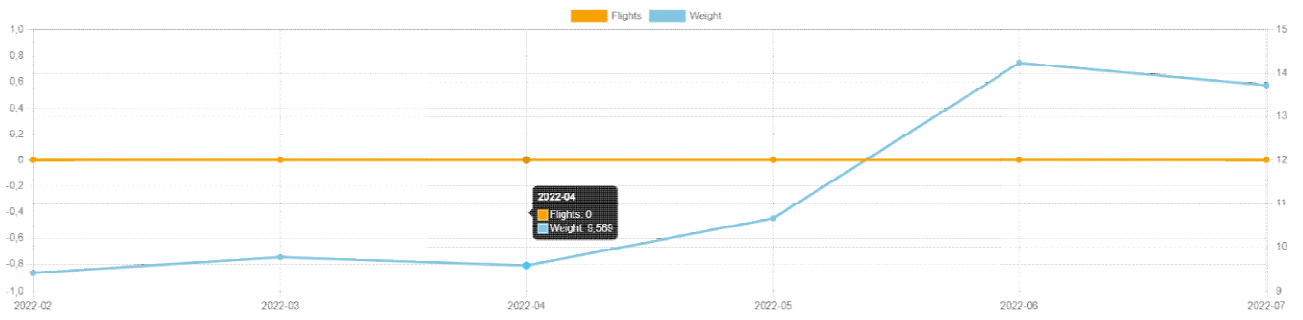
I valori invernali sono troppo bassi per essere interni



## OREHEK-TEHTNICA-013









## WP3.2 Akcija 12 – Preizkušanje in natančno prilagajanje modela upravljanja za ekonomsko in okoljsko trajnost dobrih praks za ohranjanje in spodbujanje biotske raznovrstnosti

<http://beehive-asda2.s3-website-eu-west-1.amazonaws.com/#/home>

Vnesite svoje uporabniško ime: admin@beediversity.it in geslo Password01

### Rezultati dejavnosti testiranja

Uporaba s pametnega telefona ali osebnega računalnika: med obema napravama ni opaziti nobene razlike, isti podatki in iste stvari. Postopek s pametnim telefonom sem preizkusil na dveh različnih telefonih, vedno isto in isto na osebne računalniku.

Lokalizacija panjev na zemljevidu manjka.

Vendar pa se šteje za manjšo težavo, saj je uporaba vsakega uporabnika omejena na svoje panje, zato poznavanje lokacije drugih in njihovih imen ni posebno zanimivo.

Jezik: samo angleščina. Za oviro za čebelarje velja predvsem rubrika, v katero je treba podatke vnašati ročno, kot je na primer vnos botaničnega imena vrste.

Podatki v realnem času niso vidni

Izvirnih podatkov ni mogoče prenesti. Priporočljivo bi bilo, da bi jih imeli, tudi zato, da preverite, na kateri podatkovni bazi so izračunana povprečja (in da razumete, ali so bile "ničelne" vrednosti, ki jih je mogoče videti v nekaj razpoložljivih dnevni grafih, odpravljen).

Ko se prikažejo opozorilna sporočila, ni navedeno, kdaj je bil nastavljeni prag presežen.

V grafih ni referenčne merske enote na oseh (pomagalo bi tudi razumeti, katero referenčno os je treba upoštevati, saj sta za vsak graf vedno dve seriji podatkov). Lepo bi bilo, če bi bila barva serije podatkov enaka referenčni osi. Seveda potem razumeš tisto napisano desno-desno os in levo-levo.

Teža: tehtnica je zelo spremenljiva.

V grafih letnega obdobja so navedene samo mesečne povprečne vrednosti (predvidevam, ker je samo ena vrednost na mesec), vendar brez navedbe razpršenosti podatkov (SD; ES) in N podatkov (na kakšnem povprečju dobimo, če iz povprečja vseh mesečnih vrednosti ali povprečja dnevni povprečij).

Dnevni grafikoni prikazujejo obdobje, ki se ne konča z "danes" in ne ustreza mesecu. Na kakšni osnovi? Enkrat na dan so vrednosti 0 (preverite, da ti zunanji podatki ne prispevajo k dnevni/mesečni povprečju).

Ni mogoče izbrati referenčnega časovnega okna, bilo bi priročno (lahko se obravnava kot nadaljnji razvoj APP).

V več primerih (glejte specifikacije spodaj) so razponi vrednosti "čudni". Zelo nizke temperature, celo zelo nizka RH. Teža panja v enem primeru doseže skoraj 100 kg, kar se zdi preveč. Težava s kalibracijo senzorja? Ali obseg?

Opombe panj za panji:

| Ime panja      | 1 dan                 | 1 teden     | 1 mesec                                     | 1 leto   |
|----------------|-----------------------|-------------|---|--|
| 100 (XS)       | Ni podatkov           | Ni podatkov | Ni podatkov                                 | Podatki iz decembra 2021<br>Absurdne vrednosti zunanje temperature<br>Navedena samo mesečna povprečna vrednost (predvidevam), brez SD ali ES, brez n podatkov...<br>Notranji T manjka<br>Notranji UR manjka, zunanji UR se zdi čuden<br>Računovodskih podatkov ni<br>Nastavljena teža panja je drugačna od ostalih (od negativnih vrednosti) |
| 18 002         | Ni podatkov           | Ni podatkov | Temp sembra ok<br>UR no dati                | Ni podatkov  |
| 21.036 Antenna | Temp si<br>UR no dati | Ni podatkov | temp da<br>RU ni podatkov<br>Poleti-teža da | Ni podatkov  |
| 21.046         | Ni podatkov           | Ni podatkov | Temp da<br>RU ni podatkov<br>Poleti-teža da | Ni podatkov  |
| 21.053         | Ni podatkov           | Ni podatkov | Temp da<br>UR št                            | Ni podatkov  |

| Ime panja                     | 1 dan       | 1 teden     | 1 mesec  | 1 leto   |
|-------------------------------|-------------|-------------|--|--|
|                               |             |             | Poleti-teža da   |  |
| 21.056 Antenna                | Ni podatkov | Ni podatkov | Temp da<br>UR št<br>Poleti-teža da   | Ni podatkov  |
| CANADARE –<br>HEART - 2       | Ni podatkov | Ni podatkov | Ni podatkov  | Ni podatkov  |
| CANADARE –<br>SCALE - 006     | Ni podatkov | Ni podatkov | Ni podatkov  | Da dic 2021 a mar<br>2022<br>Manca: tempi nt,<br>UR int, voli                  |
| CRICG-SRCE-016                | Ni podatkov | Ni podatkov | Ni podatkov  | Obstaja samo T<br>int, UR int  |
| CRICG-TEHTNICA-<br>012        | Ni podatkov | Ni podatkov | Temp da<br>UR da<br>Leti št<br>Teža da   | Obdobje od<br>februarja 2022 do<br>julija 2022<br>Manjkajoči leti              |
| DOSSETTO-HEART-<br>2          | Ni podatkov | Ni podatkov | Samo termin 27.-<br>31.7.2022<br>Notranja<br>temperatura da<br>Temp est št<br>UR int da<br>UR vzhod št<br>Leti-teža št | Od decembra 2021<br>Temp int da, ext št<br>UR int da, vzhod št<br>Leti-teža št |
| DOSSETTO-SCALE-<br>004        | Ni podatkov | Ni podatkov | Temp da (zelo<br>nizke vrednosti)<br>UR da Teža da Leti<br>št  | Od decembra 2021<br>Čudne vrednosti  |
| DRULOVKA-SRCE-<br>026         | Ni podatkov | Ni podatkov | Termin 18.-30. julij<br>T in RH samo<br>notranji<br>Leti-teža št   | Od januarja 2022<br>T in RH samo<br>notranji<br>Leti-teža št                   |
| DRULOVKA-<br>TEHTNICA-014     | Ni podatkov | Ni podatkov | Ni podatkov  | Ni podatkov  |
| GAMBERI-HEART-2               | Ni podatkov | Ni podatkov | Ni podatkov  | Ni podatkov  |
| GAMBERI-SCALE-<br>005         | Ni podatkov | Ni podatkov | Ni podatkov  | Ni podatkov  |
| KRALOVI-PARK-<br>SRCE-2       | Ni podatkov | Ni podatkov | Ni podatkov  | Ni podatkov  |
| KRALOVI-PARK-<br>TEHTNICA-015 | Ni podatkov | Ni podatkov | Obdobje 17.-31.<br>julij 2022 Temp da<br>UR da Teža da Leti<br>št  | Od februarja 2022<br>Ni letov  |
| KRALOVI-<br>TEHTNICA-009      | Ni podatkov | Ni podatkov | T ja<br>UR da<br>Teža da<br>Leti št  | Od januarja 2022<br>Ni letov   |
| NI NAMESCENA-<br>TEHTNICA-010 | Ni podatkov | Ni podatkov | Ni podatkov  | Ni podatkov  |
| O.S.A.T.L.-SRC3-2             | Ni podatkov | Ni podatkov | Ni podatkov  | Ni podatkov  |

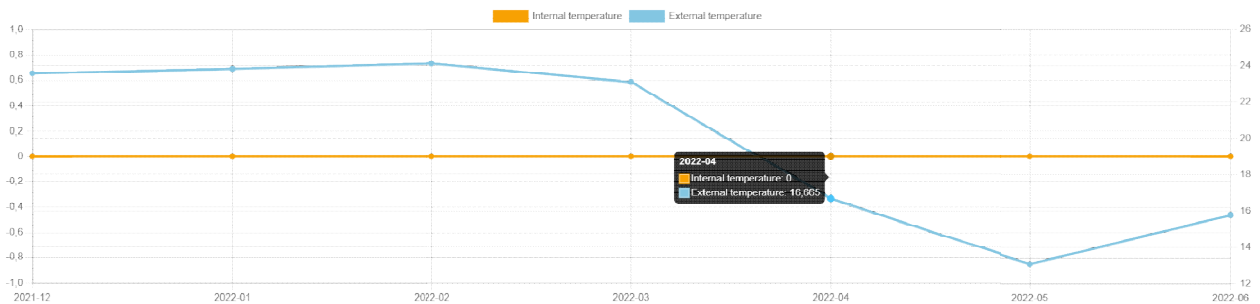


| Ime panja                   | 1 dan       | 1 teden     | 1 mesec   | 1 leto                       |
|-----------------------------|-------------|-------------|---|------------------------------|
| O.S.A.T.L.-<br>TEHTNICA-011 | Ni podatkov | Ni podatkov | Termin od 17. do<br>30. julija<br>T in RH samo<br>zunanji<br>Brez letov |                              |
| OREHEK-SRCE-2               | Ni podatkov | Ni podatkov | Ni podatkov   | Ni podatkov                  |
| OREHEK-<br>TEHTNICA-013     | Ni podatkov | Ni podatkov | TUR da<br>Teža da<br>Leti št  | TUR da<br>Teža da<br>Leti št |

## 100 XS

### Temperatura

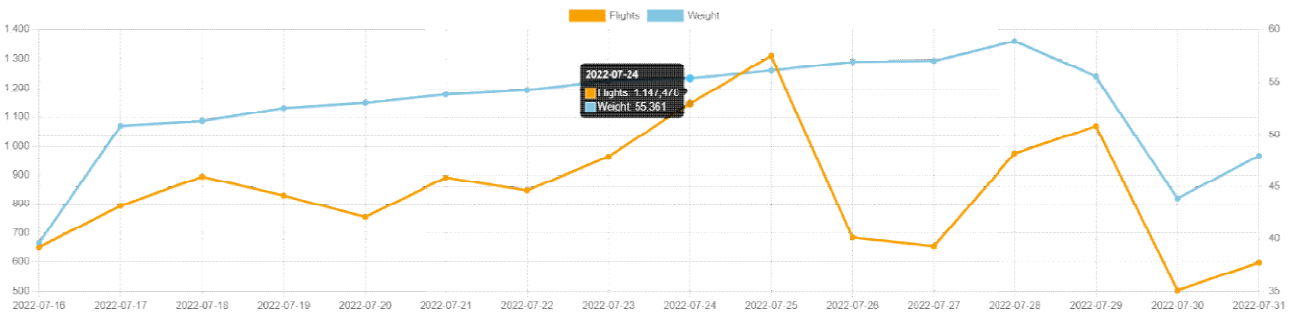
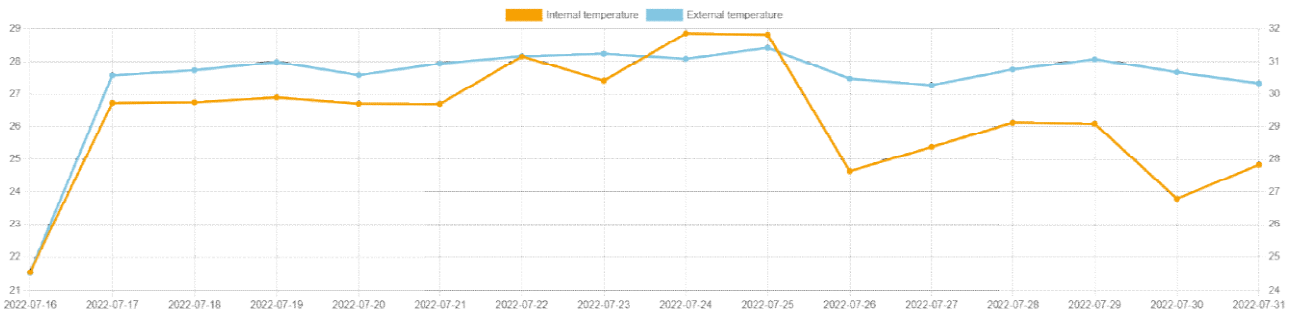
Absurdne vrednosti zunanje temperature (npr. maja nižje od decembra, 16°C julija)





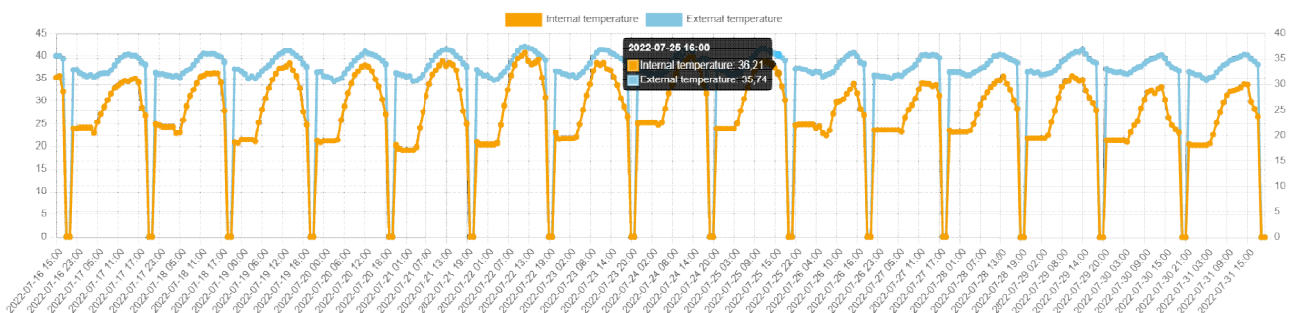
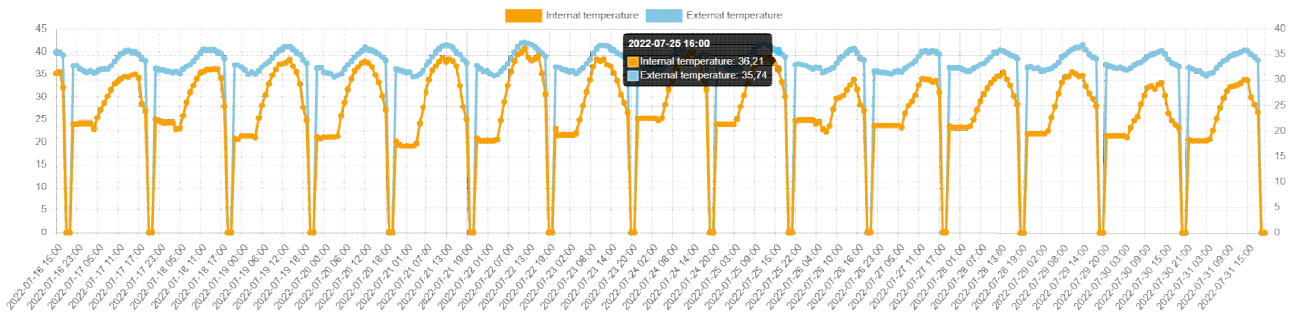
## 18 002

To izgleda v redu



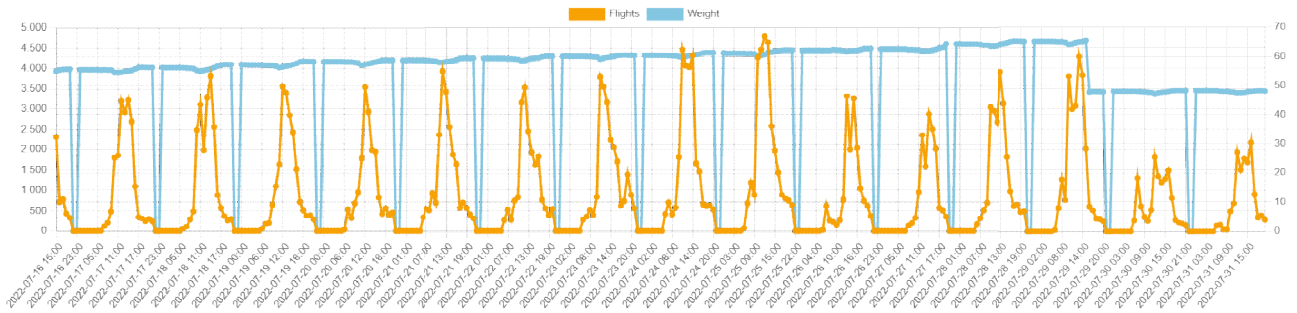
## 21.036 Antena

Dnevni podatki o temperaturi Obdobje 16.-31. julij (in avgust?) Vsak dan so temperaturne vrednosti pri 0°C, kar samo po sebi ni težava, če je odstranjeno pri izračunu dnevnih povprečij

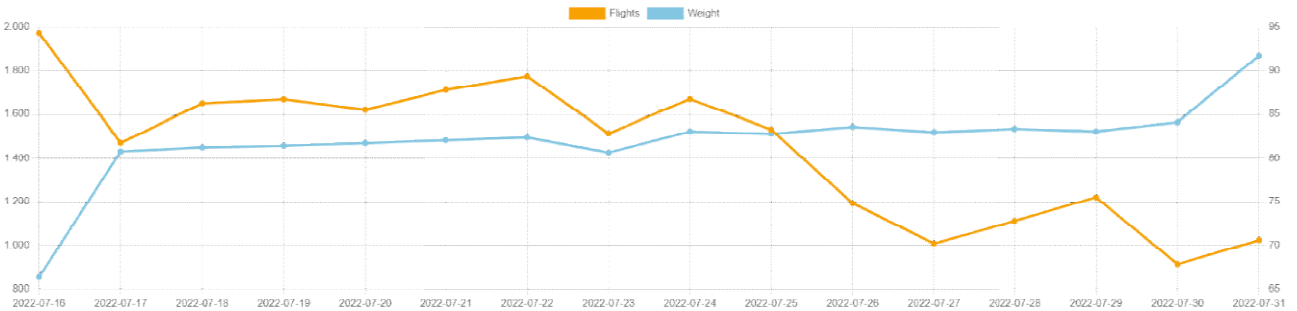


Tudi pri teži 0 vsak dan

Je bil 29. julija roj? Zmanjšanje teže in zmanjšanje letenja

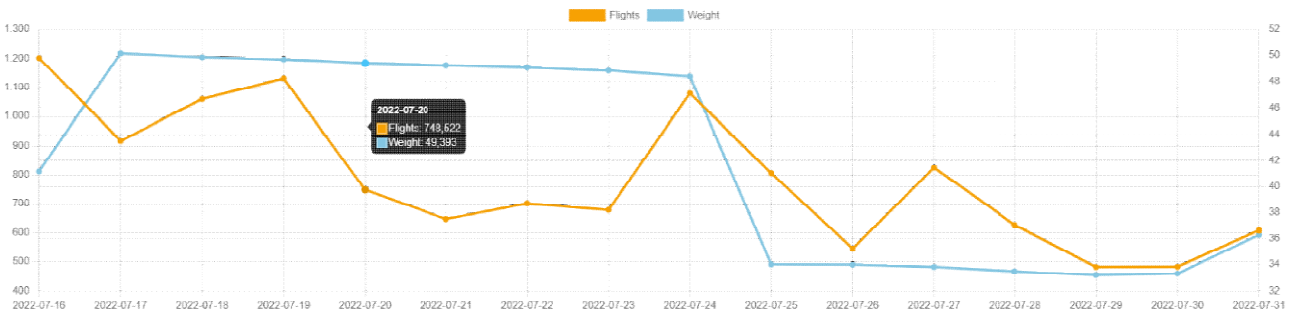
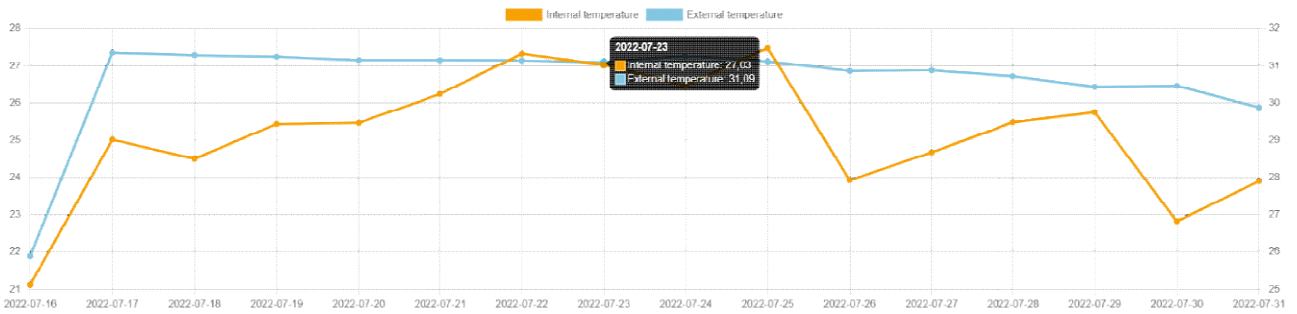


N letov se zmanjšuje in teža povečuje (kar pomeni?).



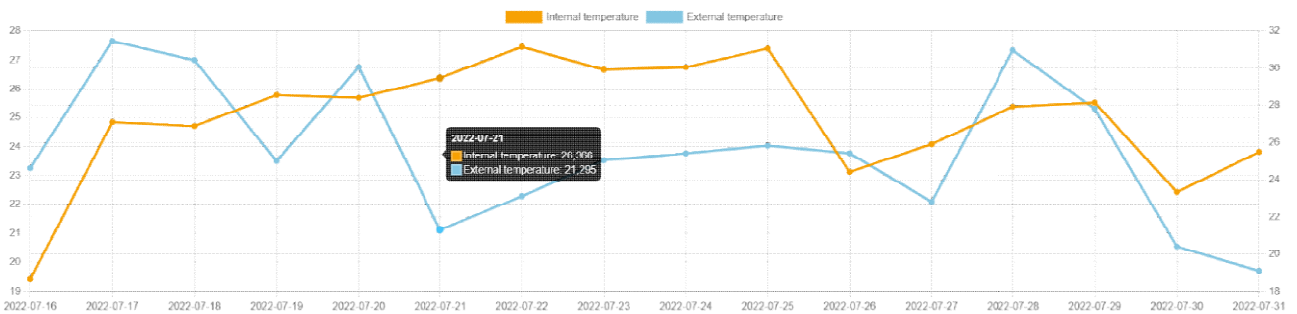
### 21.046

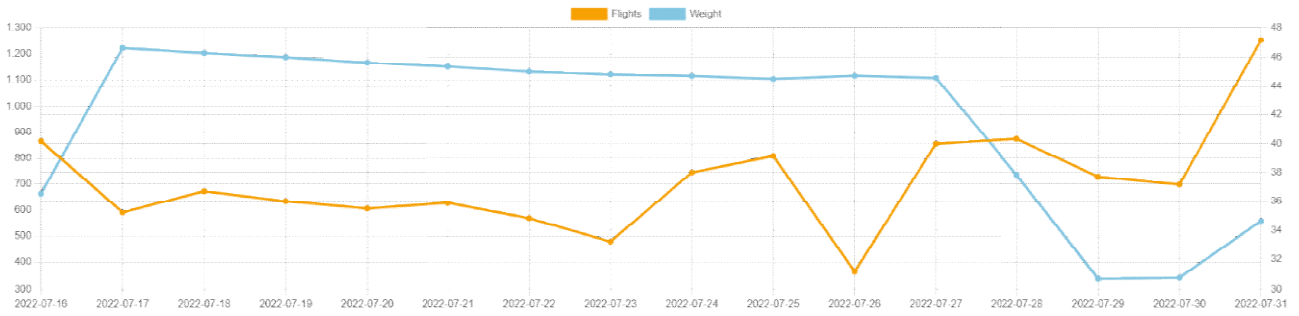
Obstajata dve opozorili, za temperaturo in težo, vendar ni sklicevanja na to, kdaj je bil prag, ki je sprožil opozorilo, presežen.



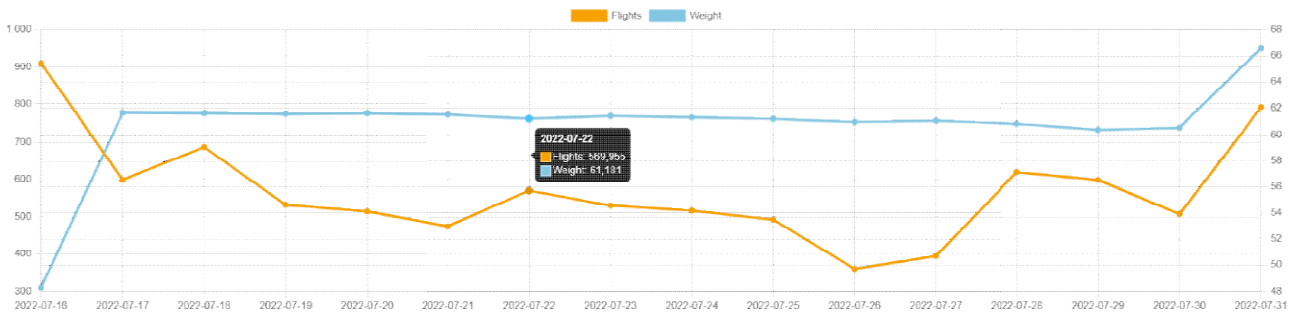
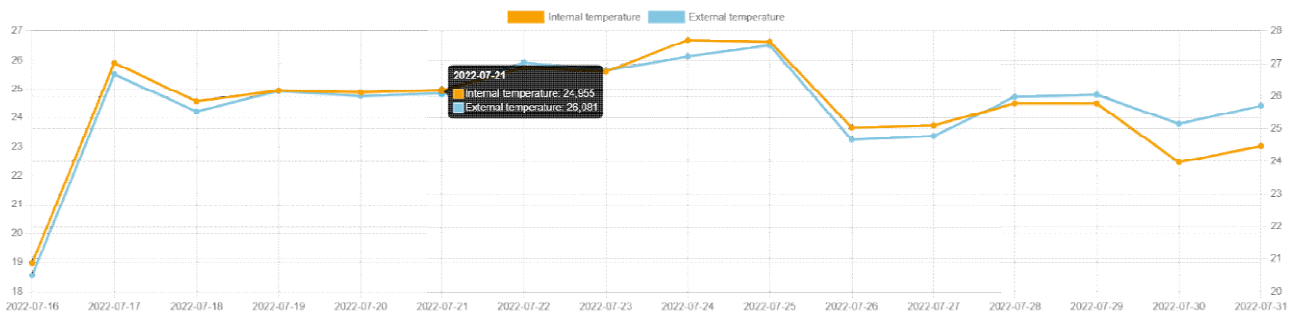
### 21.053

Temperatura: Testne vrednosti so nizke, kje je ta panj?



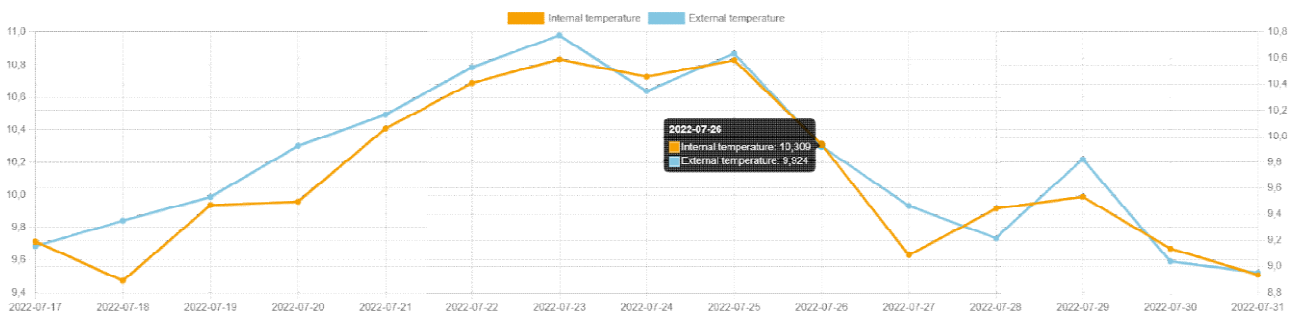


## 21.056 Antena

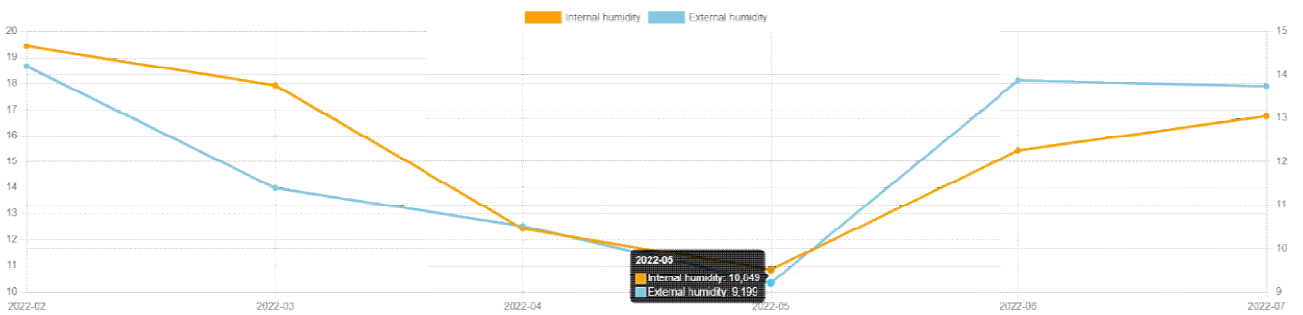
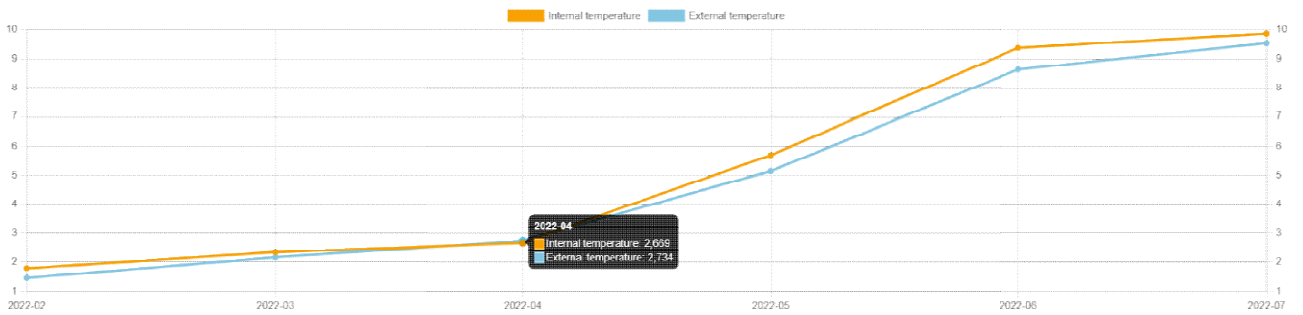
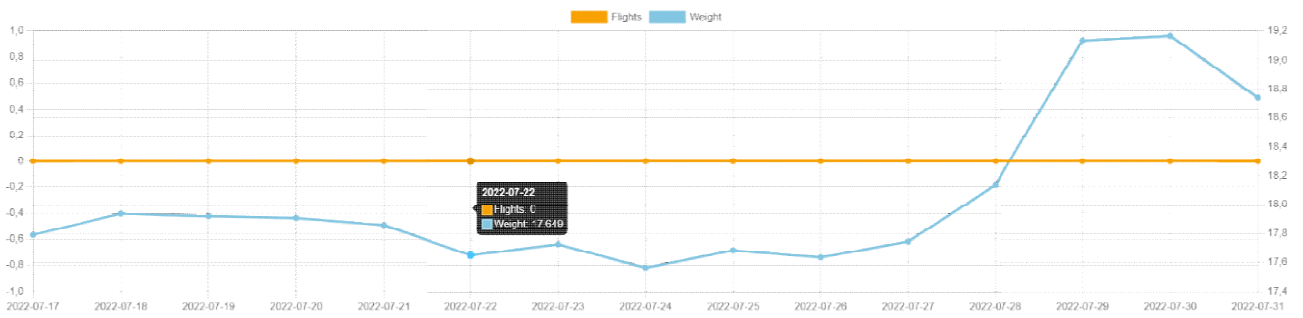
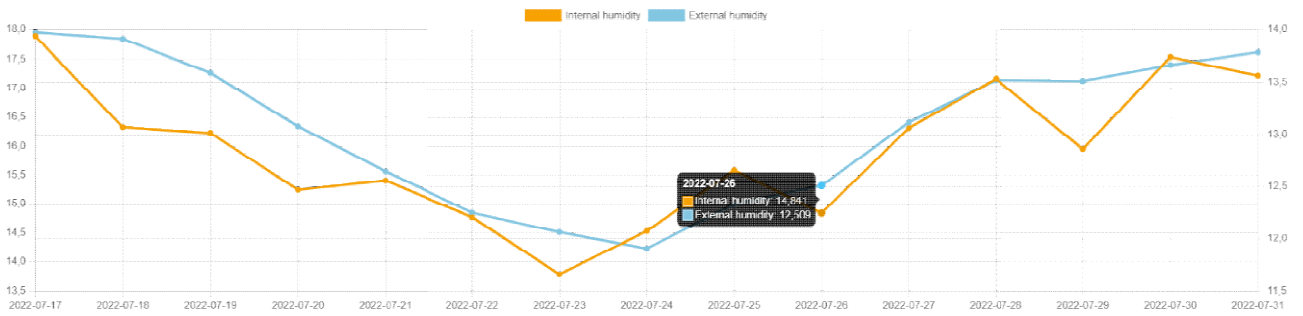


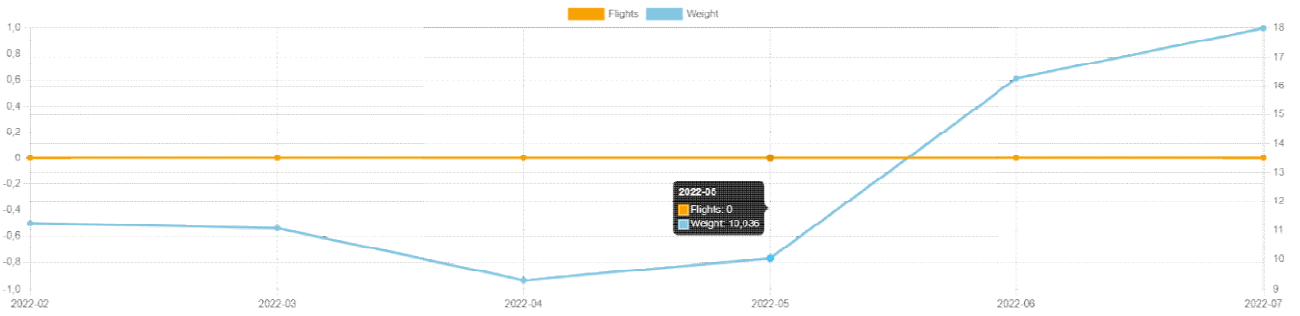
## CRICG-TEHTNICA-012

Temperature so zelo nizke

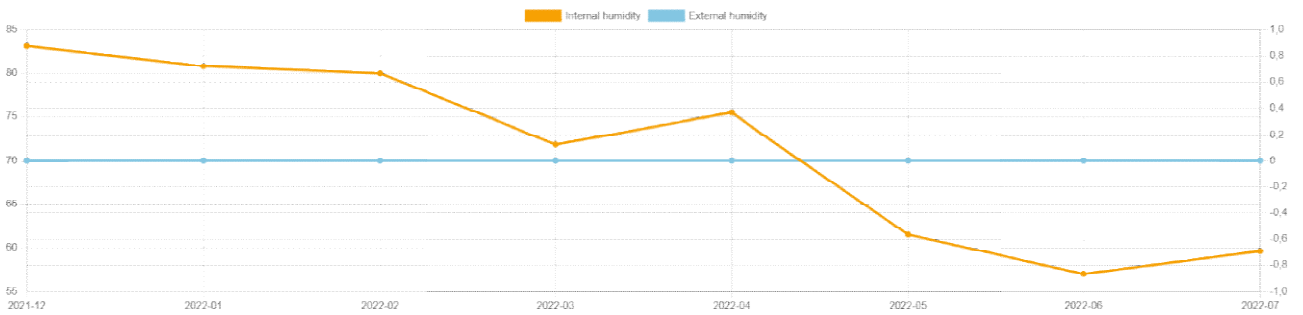
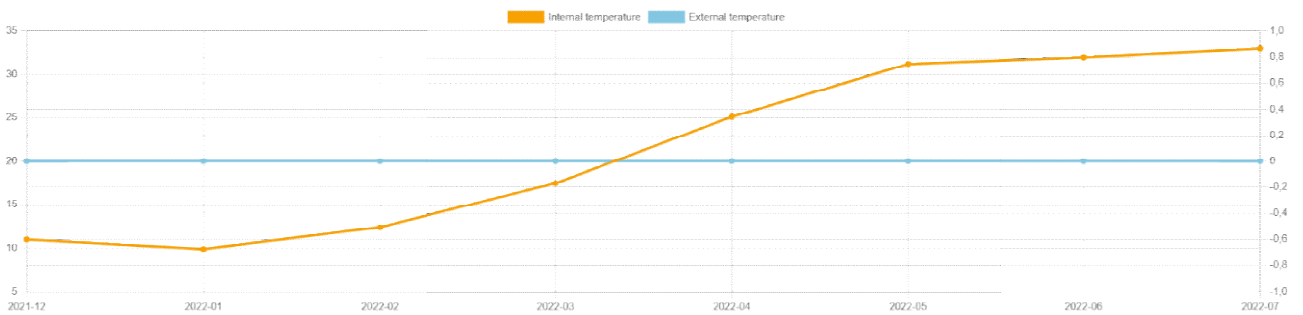


Je možna RH tako nizka?



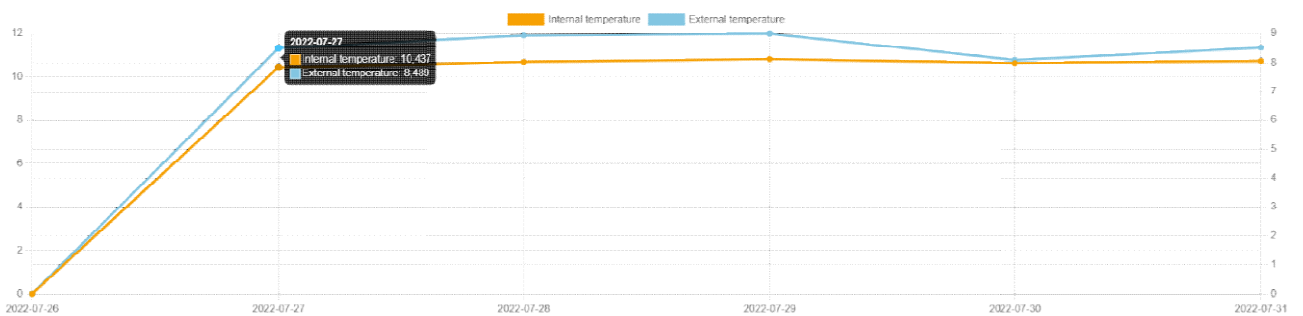


## DOSSETTO-HEART-2

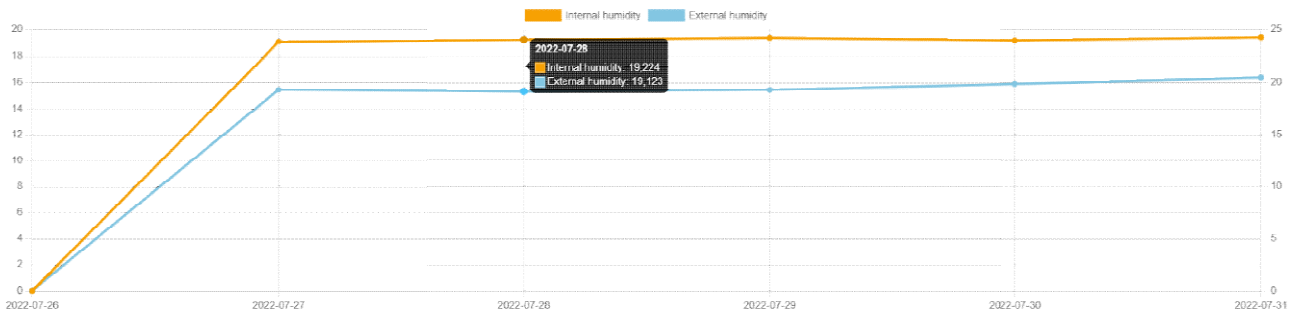


## DOSSETTO-SCALE-004

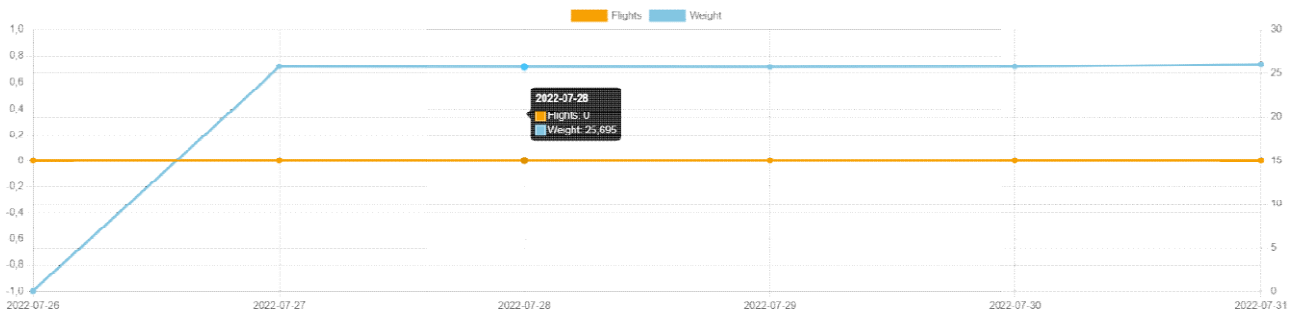
Zelo nizke temperature (?)



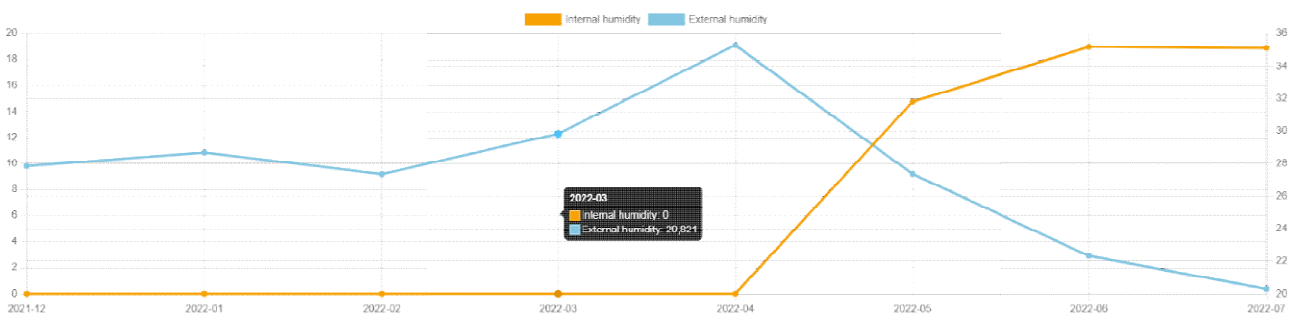
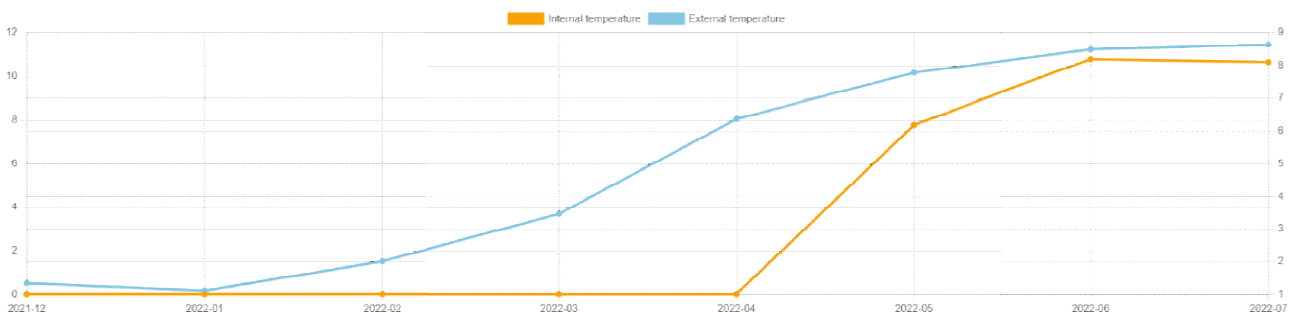
### UR zelo nizke vrednosti

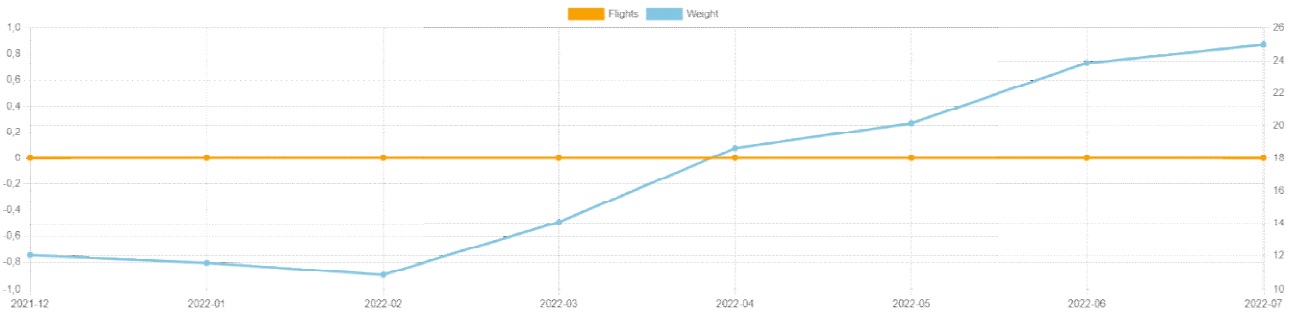


### Teža nekaj ni v redu

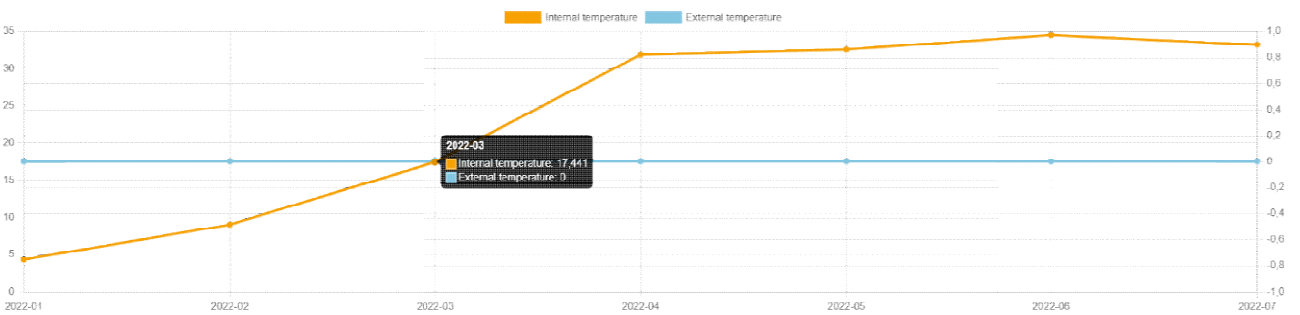
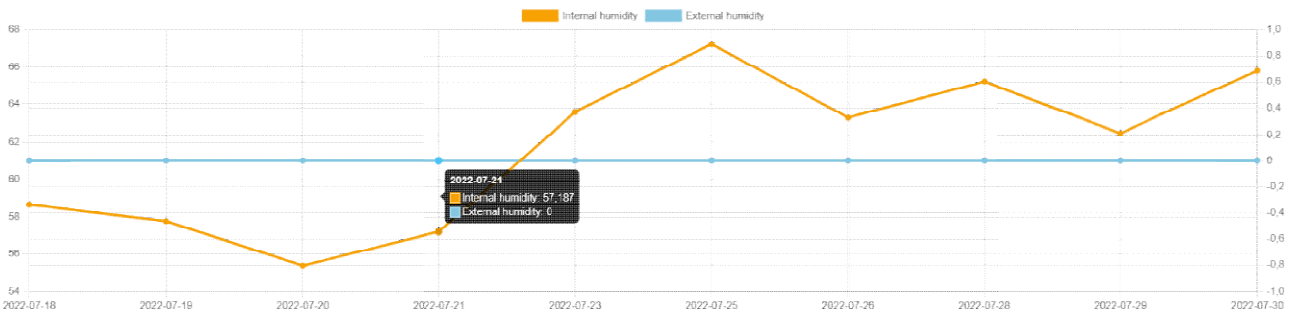
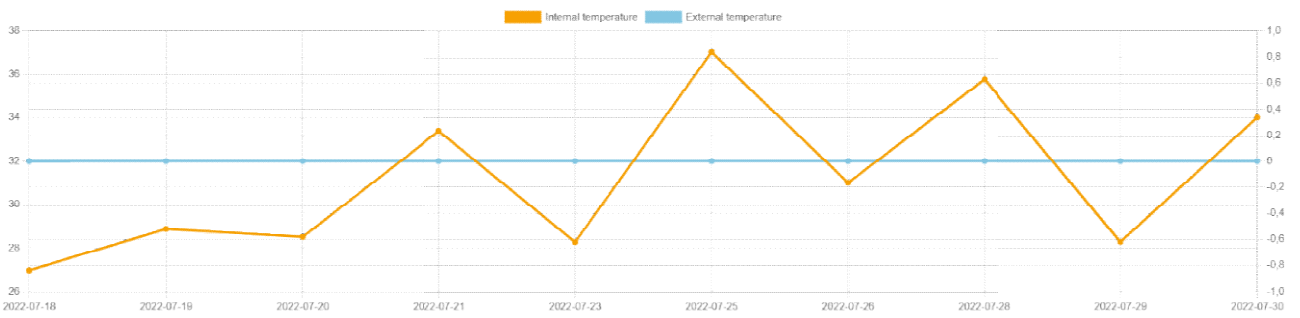


### Letna temperatura in RH je nekaj narobe

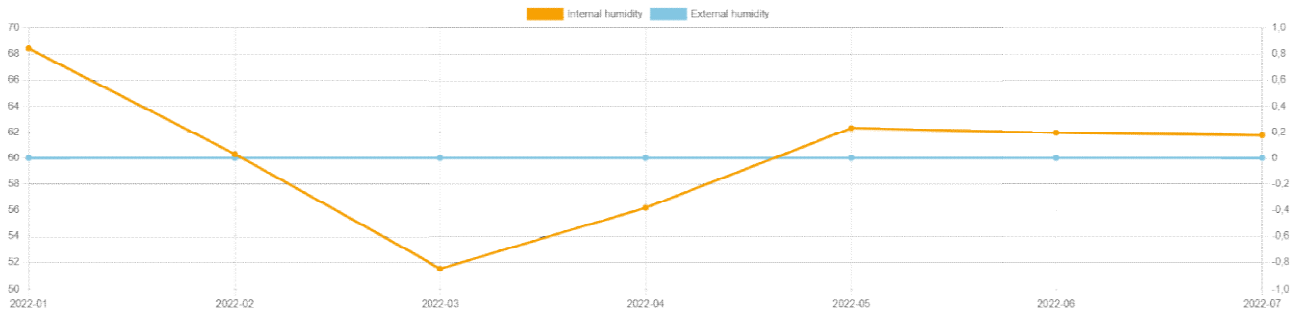




### DRULOVKA-SRCE-026

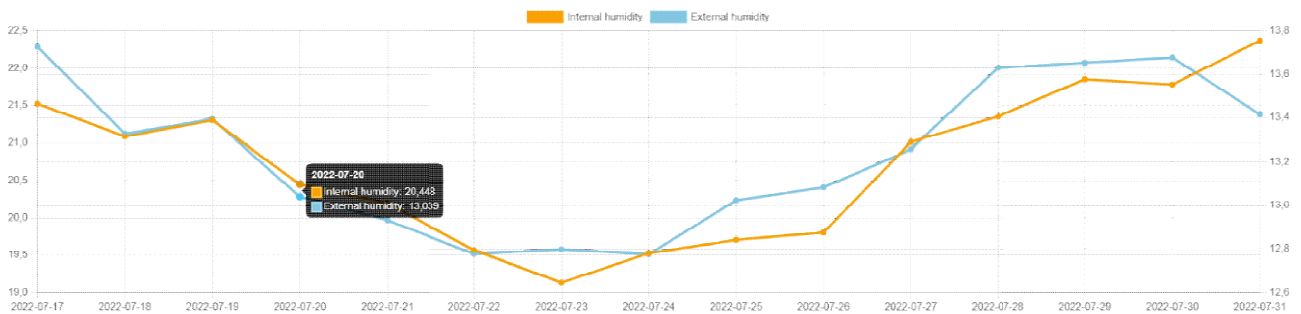
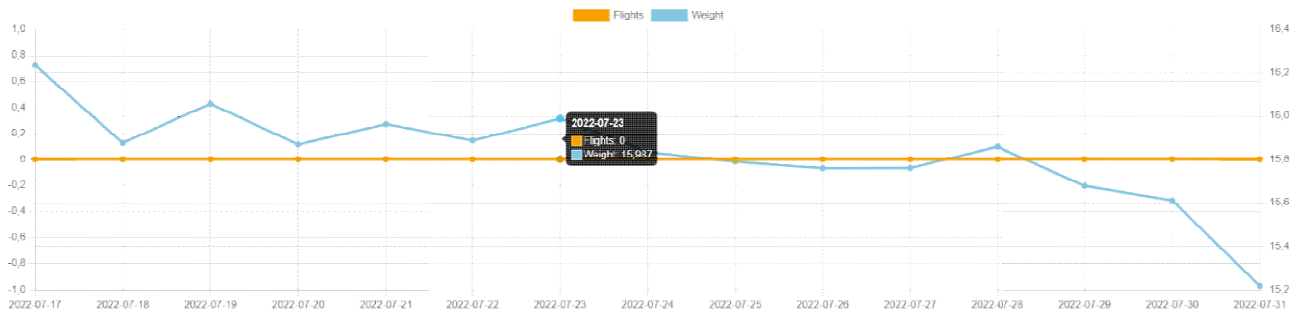
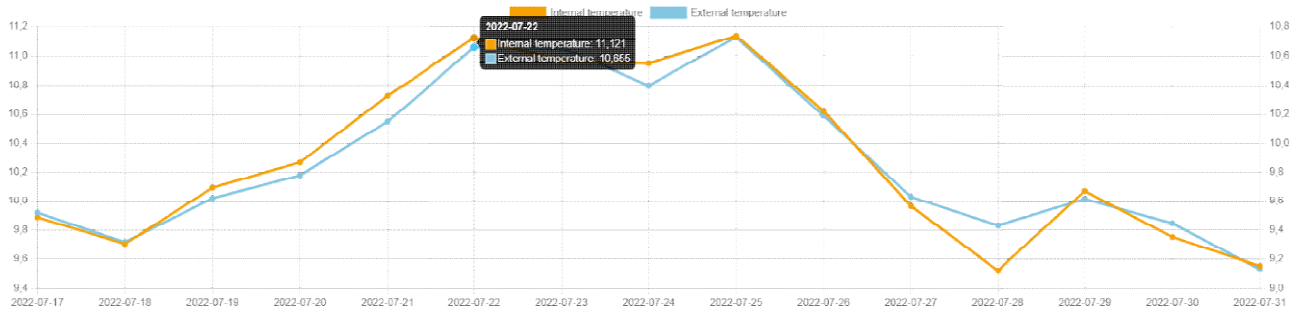


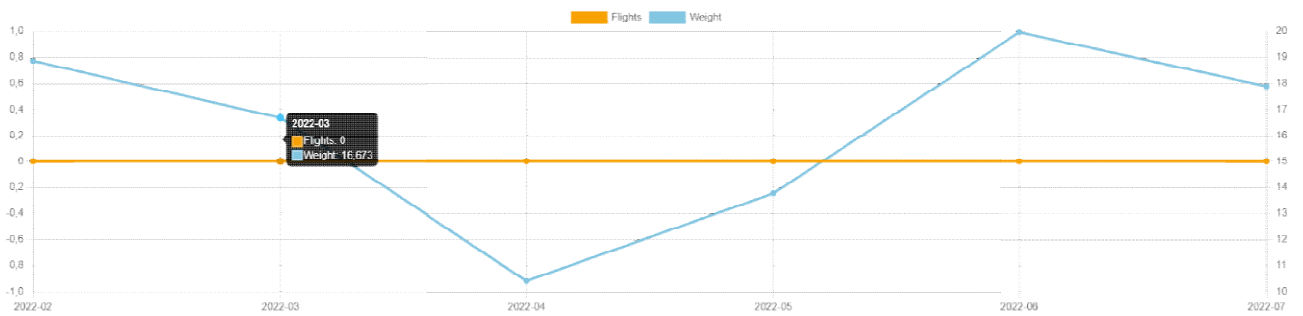
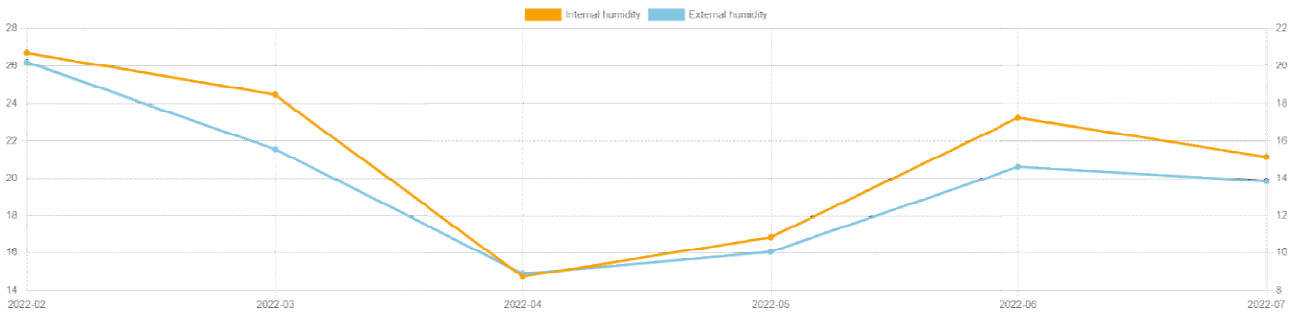
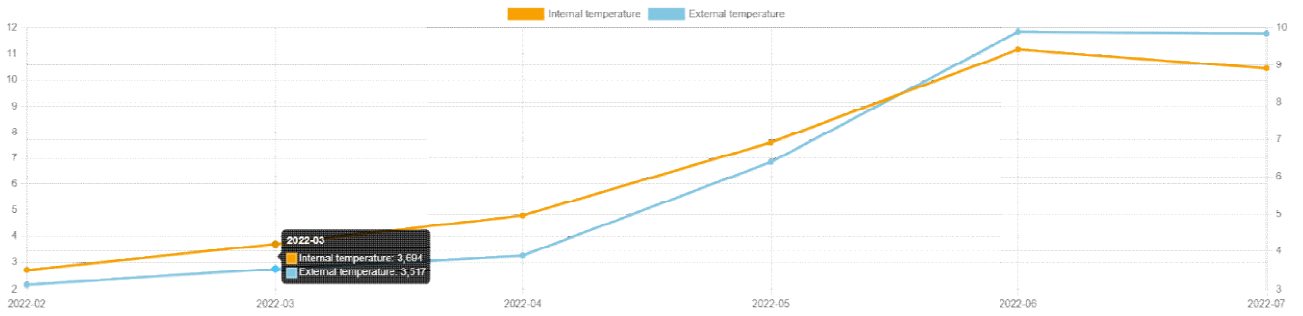




### KRALOVI-PARK-TEHTNICA-015

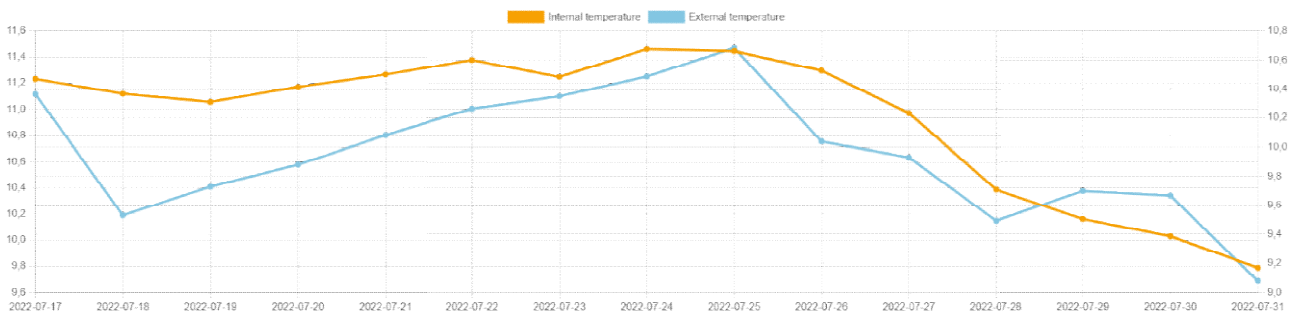
Vrednosti temperature in RH so zelo nizke (??)

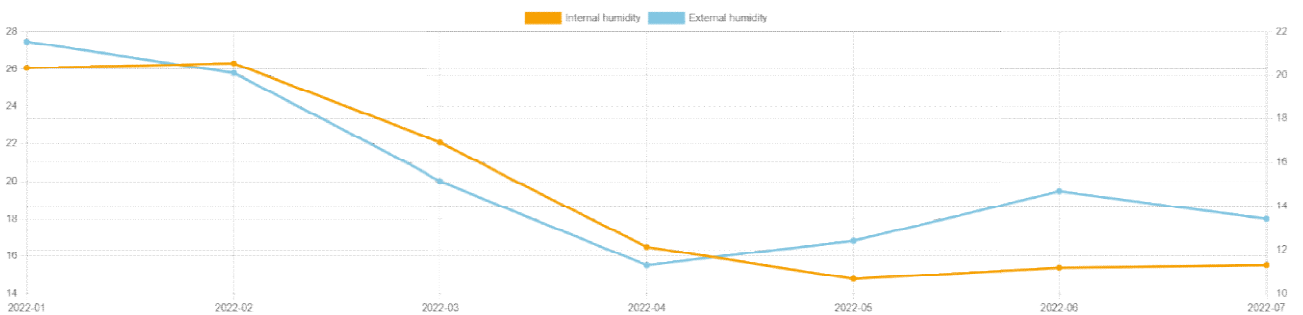
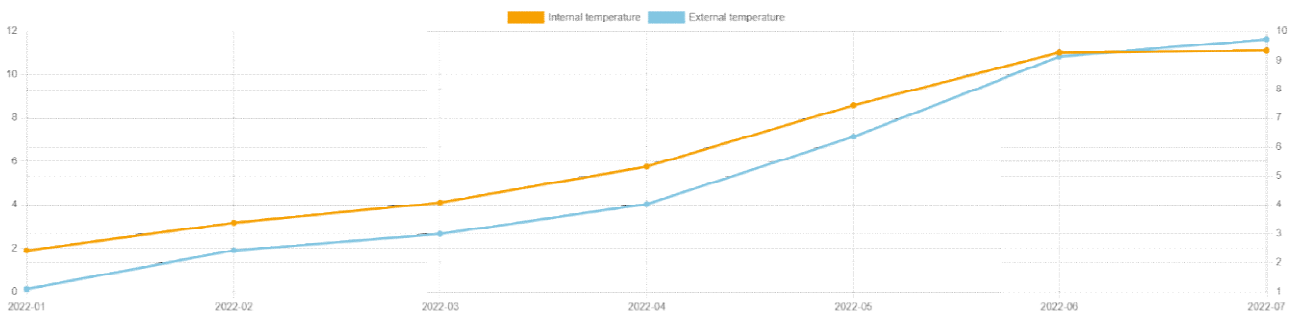
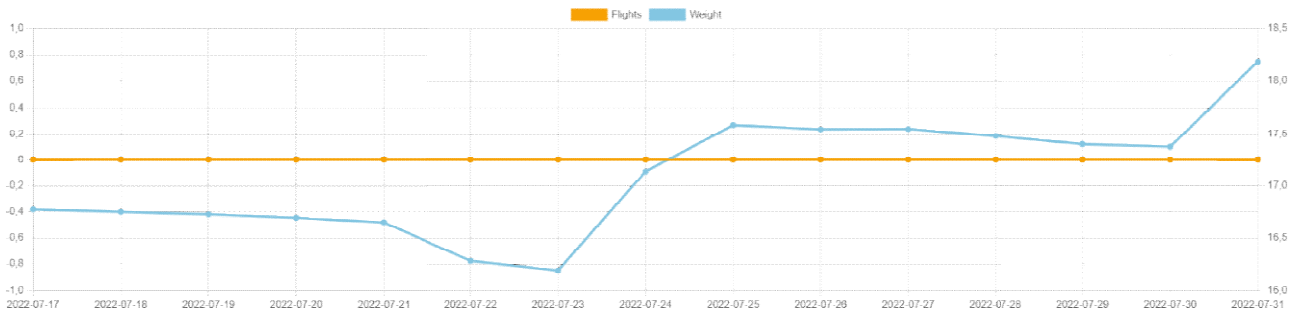
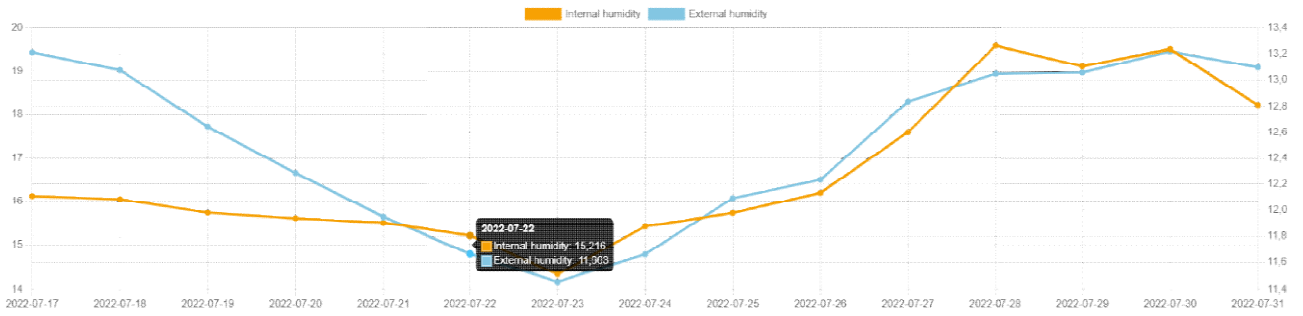


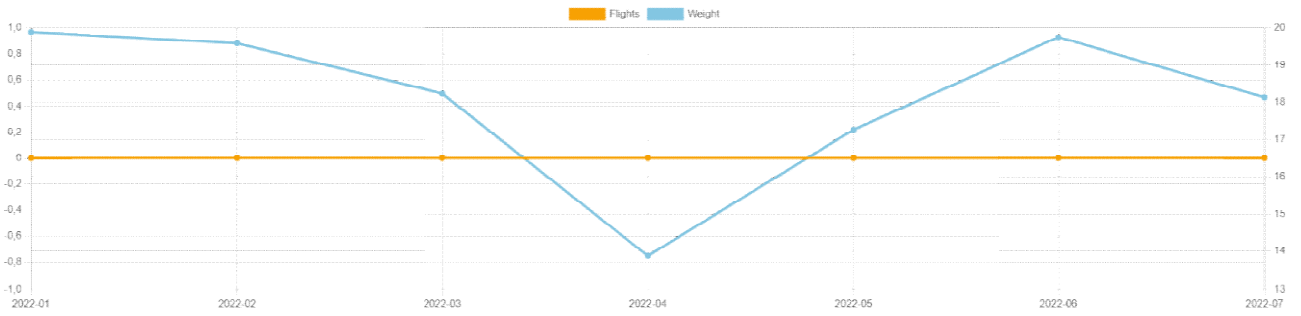


## KRALOVI-TEHNICA-009

Nizke vrednosti temperature in RH

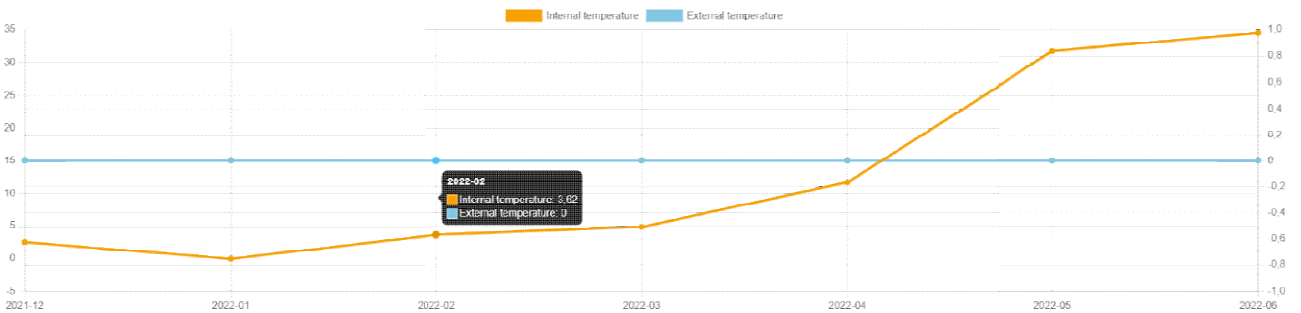






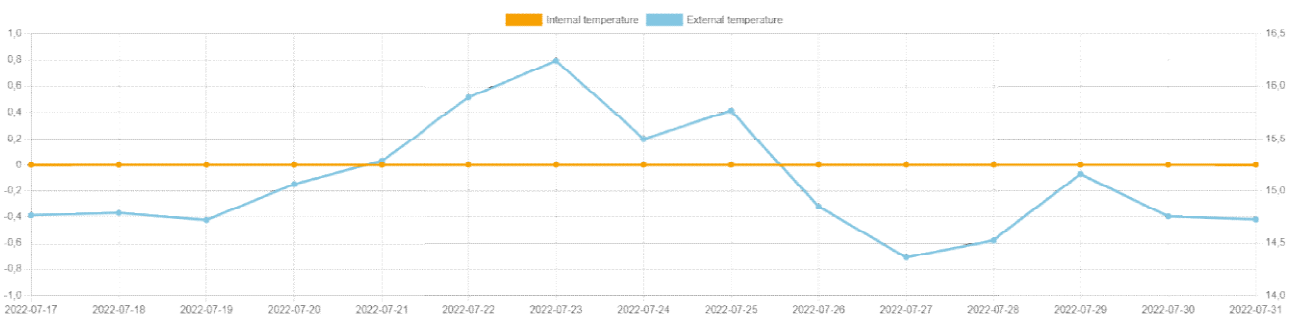
### O.S.A.T.L.-SRC3-2

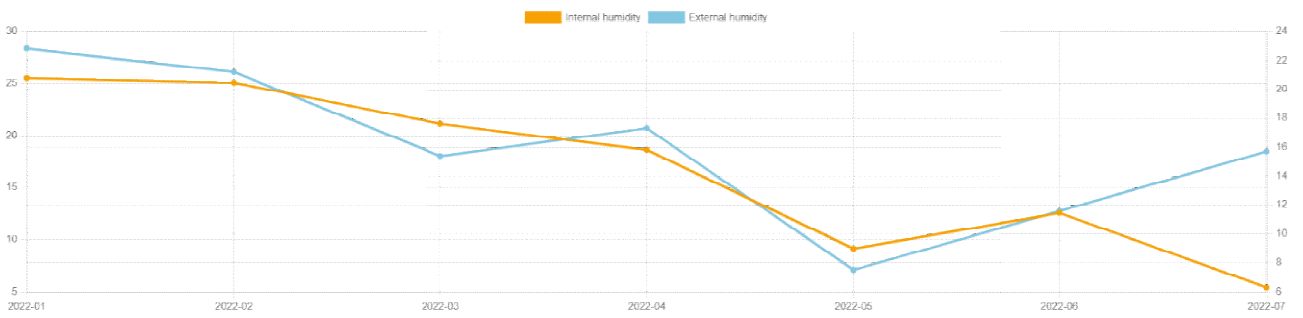
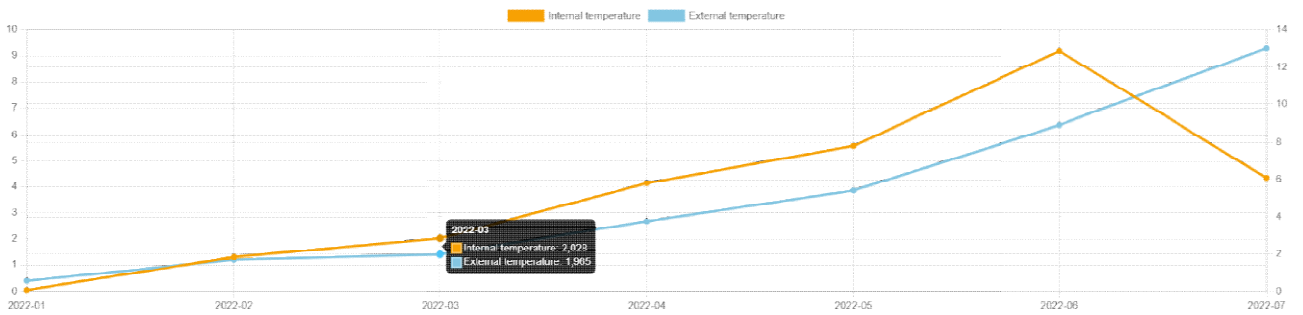
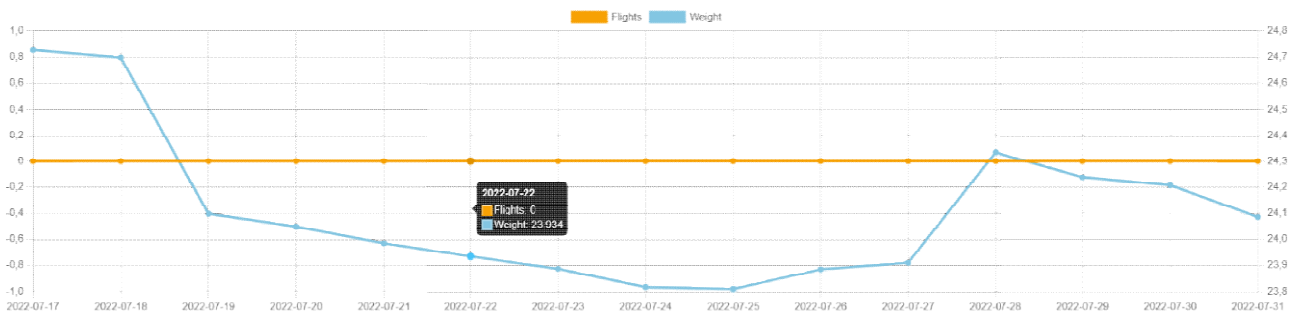
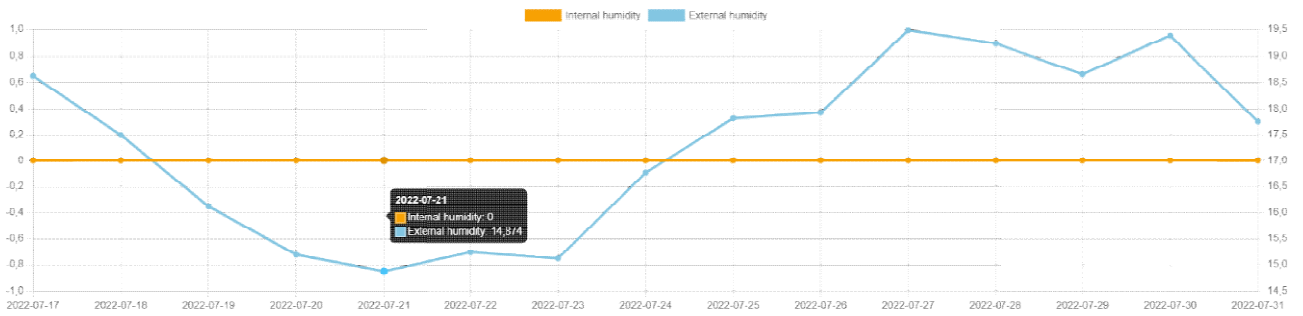
Absurdne temperaturne vrednosti, v panju ne sme biti manj kot 5°C

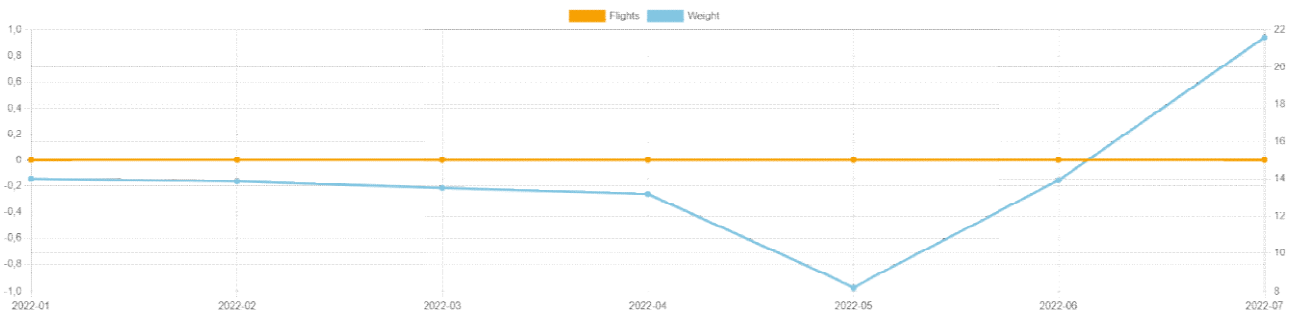


### O.S.A.T.L.-TEHTNICA-011

Nizke temperature in vrednosti RH

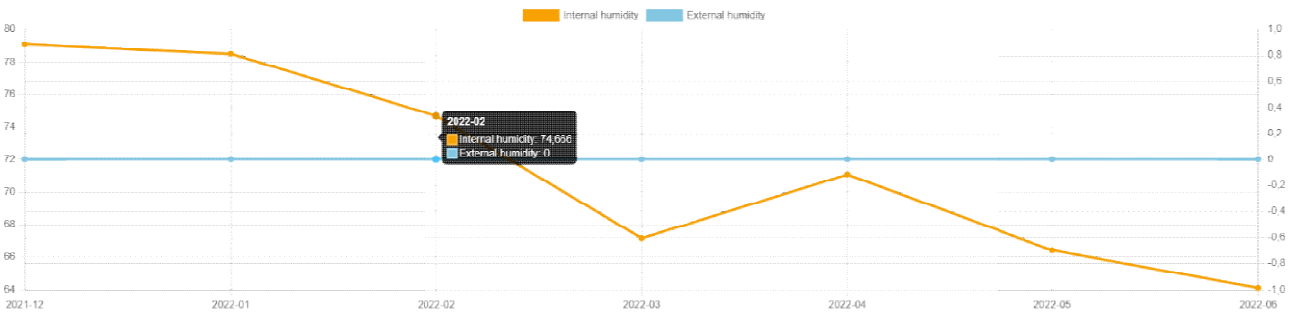
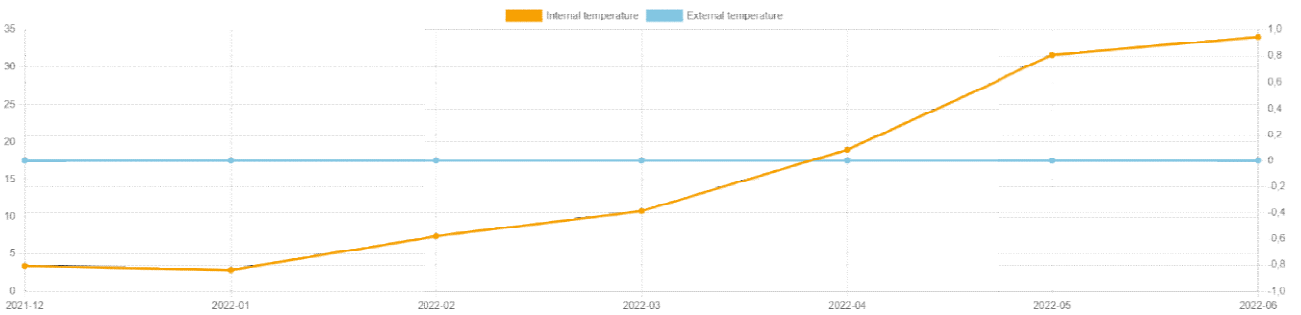






## OREHEK-SRCE-2

Zimske vrednosti so prenizke, da bi bile interne



## OREHEK-TEHTNICA-013

