

# Nivells i recàrregues d'heli líquid

Aquesta pàgina conté un resum dels nivells setmanals d'heli líquid als espectròmetres del SeRMN, i de les recàrregues efectuades als **dos darrers anys**. Les dades de nivells i recàrregues d'anys anteriors, i les dades anuals de consum d'heli líquid es poden consultar a les pàgines,

- [Registre històric de nivells i recàrregues d'heli líquid](#) (de 2007 endavant)
- [Consum anual d'heli líquid](#)

## Instruccions del registre

- Les recàrregues d'heli s'indiquen en **negreta**.
- Afegeix les noves dades al capdamunt de la taula, de forma que estiguin en ordre cronològic invers i es vegin immediatament sense haver de baixar fins el final de la taula (els anys tenen moltes, 51 ó 52, setmanes!).
- El format de les dates és YYYY-MM-DD, d'acord amb la recomanació del [World Wide Web Consortium \(W3C\)](#).

## 2021



- **Avance DPX-360**

- El nivell 0% del sensor del 360 se situa just per sobre de la bobina, i marca el nivell mínim d'heli per una recàrrega segura.
- Calcular una estimació del nivell considerant un **consum setmanal del 5%**.

- **Avance DRX 500**

- Des de mitjans de 2020, després d'una recàrrega per sobre del 90%, quan el nivell baixa **es queda al 89%-90% durant tres setmanes** i després continua baixant.

- **Avance II+ 600**

- Després d'una recàrrega al 100%, les primeres setmanes el nivell d'heli roman constant o baixa molt poc a poc

## 1r semestre

| Data       | 250auto | 360         | 400nb | 500 | 600        | DNP | Nivells tanc LIN | Responsable(s)    | Observacions                 |
|------------|---------|-------------|-------|-----|------------|-----|------------------|-------------------|------------------------------|
| 2021-02-17 | 80%     | 92%         | 64%   | 75% | 72%        | -%  | de 190 a 160     | Míriam            | + 1 Dewar N2                 |
| 2021-02-10 | 82%     | 98%         | 67%   | 77% | 76%        | -%  | de 270 a 240     | Eva               |                              |
| 2021-02-04 | -%      | <b>101%</b> | -%    | -%  | <b>80%</b> | -%  |                  | Pau, Miquel i Eva | 100L LHe                     |
| 2021-02-03 | 88%     | 60%         | 70%   | 81% | 64%        | -%  | de 155 a 130     | Míriam            | 360MHz al 60% per 3a setmana |

| Data       | 250auto | 360 | 400nb | 500 | 600 | DNP | Nivells<br>tanc LIN | Responsable(s)  | Observacions                 |
|------------|---------|-----|-------|-----|-----|-----|---------------------|-----------------|------------------------------|
| 2021-01-27 | 91%     | 60% | 73%   | 84% | 67% | -%  | de 230 a 205        | Míriam          | 360MHz al 60% per 2a setmana |
| 2021-01-20 | 96%     | 60% | 76%   | 89% | 71% | -%  | de 290 a 260        | Eva             | 360MHz al 60% per 1a setmana |
| 2021-01-13 | 98%     | 67% | 78%   | 92% | 75% | -%  | de 130 a 95         | Míriam          | mig Dewar N2                 |
| 2021-01-05 | 98%     | 73% | 81%   | 93% | 78% | -%  | de 200 a 170        | Míriam i Silvia |                              |

## 2020



- **Avance DPX-250-ROBOT (DESCARREGAT EL 2020-10-29)**

- No cal mesurar el nivell d'heli: l'imant s'ha descarregat i els criògens s'han evaporat.

- **Avance II 400wb (DESCARREGAT EL 2020-10-29)**

- No cal mesurar el nivell d'heli: l'imant s'ha descarregat i els criògens s'han evaporat.

## 2n semestre

| Data       | 250auto    | 250robot  | 360         | 400nb      | 400wb     | 500        | 600        | DNP | Nivells<br>tanc LIN | Responsable(s)    | Observacions                          |
|------------|------------|-----------|-------------|------------|-----------|------------|------------|-----|---------------------|-------------------|---------------------------------------|
| 2020-12-29 | <b>99%</b> | -%        | -%          | -%         | -%        | <b>97%</b> | <b>82%</b> | -%  | —                   | Pau i Eva         | 100L He                               |
| 2020-12-29 | 61%        | -%        | 80%         | 85%        | -%        | 61%        | 66%        | -%  | de 270 a 240        | Pau, Miquel i Eva |                                       |
| 2020-12-22 | 65%        | -%        | 86%         | 89%        | -%        | 66%        | 70%        | -%  | de 90 a 60          | Pau, Miquel i Eva |                                       |
| 2020-12-16 | 67%        | -%        | 91%         | 91%        | -%        | 68%        | 73%        | -%  | de 140 a 110        | Pau, Miquel       |                                       |
| 2020-12-09 | 71%        | -%        | 97%         | 94%        | -%        | 71%        | 76%        | -%  | de 200 a 170        | Míriam            |                                       |
| 2020-12-03 | -%         | -%        | <b>100%</b> | <b>98%</b> | -%        | -%         | -%         | -%  | —                   | Pau i Eva         | 100L LHe                              |
| 2020-12-02 | 74%        | -%        | 60%         | 57%        | -%        | 74%        | 80%        | -%  | de 290 a 260        | Eva               | 360MHz a 60% 3a setmana               |
| 2020-11-25 | 77%        | -%        | 60%         | 61%        | -%        | 77%        | 82%        | -%  | de 130 a 105        | Míriam            | 360MHz a 60% 2a setmana               |
| 2020-11-18 | 80%        | -%        | 60%         | 64%        | -%        | 80%        | 83%        | -%  | de 190 a 160        | Eva               | 360MHz a 60% 1a setmana, 1 dewar LN2  |
| 2020-11-11 | 83%        | -%        | 69%         | <b>67%</b> | -%        | 84%        | <b>91%</b> | -%  | de 280 a 250        | Pau, Teo          | 100L LHe                              |
| 2020-11-04 | 88%        | -%        | 75%         | 55%        | -%        | 87%        | 63%        | -%  | de 140 a 110        | Eva               |                                       |
| 2020-10-29 | 91%        | <b>0%</b> | 82%         | 58%        | <b>0%</b> | 88%        | 67%        | -%  | —                   | Miquel i Eva      | Quench controlat 250MHz robot i 400wb |

| Data       | 250auto     | 250robot   | 360         | 400nb      | 400wb      | 500        | 600        | DNP | Nivells<br>tanc<br>LIN | Responsable(s)  | Observacions                                                     |
|------------|-------------|------------|-------------|------------|------------|------------|------------|-----|------------------------|-----------------|------------------------------------------------------------------|
| 2020-10-28 | 91%         | 68%        | 82%         | 58%        | 53%        | 88%        | 67%        | -%  | de 200<br>a 180        | Pau             | Nivell 250Hz-robot estimat                                       |
| 2020-10-21 | 95%         | 73%        | 88%         | 61%        | 56%        | 89%        | 70%        | -%  | de 280<br>a 250        | Eva             | Nivell 250Hz-robot estimat                                       |
| 2020-10-14 | 98%         | 78%        | 94%         | 64%        | 59%        | 89%        | 74%        | -%  | de 140<br>a 100        | Míriam          |                                                                  |
| 2020-10-07 | <b>98%</b>  | —          | <b>100%</b> | —          | —          | <b>89%</b> | —          | -%  | —                      | Pau i Eva       | 100L LHe                                                         |
| 2020-10-07 | 61%         | 83%        | 60%         | 67%        | 63%        | 69%        | 78%        | -%  | de ???<br>a ???        | Pau             |                                                                  |
| 2020-09-30 | 64%         | 87%        | 63%         | 70%        | 65%        | 72%        | 81%        | -%  | de 120<br>a 90         | Míriam          |                                                                  |
| 2020-09-23 | 67%         | 89%        | 71%         | 73%        | 68%        | 75%        | 83%        | -%  | de 210<br>a 180        | Pau i Eva       |                                                                  |
| 2020-09-18 | -%          | <b>89%</b> | -%          | -%         | -%         | -%         | <b>84%</b> | -%  | —                      | Miquel i Eva    | 100LHe, tots dos imants marcaven 90-100% mentre s'omplien d'heli |
| 2020-09-16 | 73%         | 53%        | 78%         | 75%        | 71%        | 78%        | 72%        | -%  | de 140<br>a 110        | Míriam          |                                                                  |
| 2020-09-09 | 73%         | 58%        | 84%         | 78%        | 74%        | 81%        | 76%        | -%  | de 210<br>a 170        | Eva             |                                                                  |
| 2020-09-02 | 76%         | 63%        | 91%         | 80%        | 75%        | 85%        | 79%        | -%  | de 290<br>a 270        | Eva             | <b>400wb 3a setmana al 75%!</b>                                  |
| 2020-08-26 | 79%         | 68%        | 97%         | 84%        | 75%        | 88%        | 82%        | -%  | de 180<br>a 140        | Míriam i Eva    |                                                                  |
| 2020-08-19 | —           | —          | <b>101%</b> | —          | —          | —          | <b>86%</b> | -%  | —                      | Miquel i Míriam | 100L LHe                                                         |
| 2020-08-19 | 82%         | 73%        | 60%         | 85%        | 75%        | 89%        | 59%        | -%  | de 260<br>a 230        | Miquel i Míriam | <b>500MHz a 89% 3a setmana!</b>                                  |
| 2020-08-12 | 84%         | 78%        | 66%         | 87%        | 76%        | 89%        | 64%        | -%  | de 130<br>a 100        | Miquel i Míriam |                                                                  |
| 2020-08-04 | 89%         | 82%        | 73%         | 89%        | 79%        | 89%        | 67%        | -%  | de 200<br>a 170        | Pau i Miquel    |                                                                  |
| 2020-07-31 | -%          | -%         | -%          | -%         | <b>84%</b> | <b>90%</b> | <b>72%</b> | -%  | —                      | Pau i Eva       | 100L LHe                                                         |
| 2020-07-29 | 92%         | 84%        | 79%         | 95%        | 61%        | 63%        | 66%        | -%  | de 290<br>a 260        | Teo i Míriam    |                                                                  |
| 2020-07-22 | 98%         | 87%        | 91%         | 98%        | 65%        | 66%        | 70%        | -%  | de 180<br>a 140        | Teo i Míriam    |                                                                  |
| 2020-07-16 | —           | —          | —           | <b>98%</b> | —          | —          | —          | -%  | —                      | Pau i Eva       | 60L He                                                           |
| 2020-07-15 | 98%         | 87%        | 91%         | 51%        | 68%        | 69%        | 73%        | -%  | de 270<br>a            | Teo i Míriam    |                                                                  |
| 2020-07-08 | 98%         | 89%        | 98%         | 54%        | 71%        | 72%        | 77%        | -%  | de 120<br>a 80         | Teo i Eva       |                                                                  |
| 2020-07-02 | <b>100%</b> | <b>93%</b> | <b>100%</b> | —          | —          | —          | —          | -%  | —                      | Pau             | 100L He                                                          |
| 2020-07-01 | 61%         | 60%        | 60%         | 58%        | 74%        | 75%        | 81%        | -%  | de 220<br>a 180        | Pau             | <b>360MHz a 60% 3a setmana!</b>                                  |

**1r semestre**

| Data       | 250auto     | 250robot   | 360         | 400nb       | 400wb      | 500        | 600        | DNP | Nivells<br>tanc<br>LIN | Responsable(s)  | Observacions                                        |
|------------|-------------|------------|-------------|-------------|------------|------------|------------|-----|------------------------|-----------------|-----------------------------------------------------|
| 2020-06-23 | 64%         | 65%        | 60%         | 63%         | 75%        | 78%        | 83%        | -%  | de 290<br>a 270        | Pau i Eva       | <b>360MHz a<br/>60% 2a<br/>setmana!</b>             |
| 2020-06-17 | 67%         | 69%        | 60%         | 65%         | 75%        | 81%        | 83%        | -%  | de 150<br>a 120        | Pau i Eva       | <b>360MHz a<br/>60% 1a<br/>setmana!</b>             |
| 2020-06-11 | -%          | -          | -%          | -%          | <b>75%</b> | -%         | <b>84%</b> | -%  |                        | Pau i Eva       | 100L LHe                                            |
| 2020-06-10 | 70%         | 73%        | 70%         | 68%         | 59%        | 85%        | 54%        | -%  | de 220<br>a 190        | Míriam i Miquel |                                                     |
| 2020-06-03 | 73%         | 78%        | 77%         | 71%         | 62%        | 88%        | 58%        | -%  | de 140<br>a 100        | Pau i Teo       |                                                     |
| 2020-05-27 | 76%         | 82%        | 83%         | 74%         | 65%        | 90%        | 63%        | -%  | de 195<br>a 170        | Miquel i Miriam |                                                     |
| 2020-05-20 | 78%         | 84%        | 89%         | 77%         | 68%        | 90%        | 67%        | -%  | de 270<br>a 240        | Pau i Eva       |                                                     |
| 2020-05-13 | 81%         | 85%        | 95%         | 79%         | 71%        | 90%        | 70%        | -%  | de 120<br>a 95         | Teo i Miquel    |                                                     |
| 2020-05-07 | -           | <b>87%</b> | <b>101%</b> | -           | -          | <b>94%</b> | -          | -%  | -                      | Eva i Pau       | 100LHe                                              |
| 2020-05-06 | 84%         | 78%        | 66%         | 84%         | 74%        | 65%        | 74%        | -%  | de 190<br>a 150        | Teo i Miquel    |                                                     |
| 2020-04-29 | 89%         | 82%        | 73%         | 86%         | 75%        | 68%        | 77%        | -%  | de 270<br>a 240        | silvia i Teo    |                                                     |
| 2020-04-22 | 91%         | 85%        | 79%         | 88%         | 75%        | 71%        | 81%        | -%  | de 120<br>a —          | Pau i Eva       |                                                     |
| 2020-04-15 | 96%         | 86%        | 86%         | 93%         | 75%        | 74%        | 83%        | -%  | de 190<br>a 150        | Teo i Miquel    |                                                     |
| 2020-04-08 | 98%         | 87%        | 92%         | 96%         | 76%        | 77%        | 83%        | -%  | de 270<br>a 240        | Pau i Eva       |                                                     |
| 2020-04-01 | 98%         | 90%        | 98%         | 98%         | 78%        | 80%        | 87%        | -%  | de 120<br>a 95         | Teo i Miquel    |                                                     |
| 2020-03-26 | <b>100%</b> | <b>99%</b> | <b>101%</b> | <b>100%</b> | <b>89%</b> | -%         | -%         | -%  |                        | Pau i Eva       | 100L LHe                                            |
| 2020-03-25 | 69%         | 57%        | 88%         | 70%         | 76%        | 83%        | 93%        | -%  | de 190<br>a 150        | Silvia i Miquel |                                                     |
| 2020-03-18 | 72%         | 62%        | 95%         | 73%         | 78%        | 89%        | 94%        | -%  | de 270<br>a 240        | Pau i Eva       |                                                     |
| 2020-03-11 | 75%         | 66%        | <b>100</b>  | 75%         | <b>84%</b> | <b>94%</b> | 94%        | -%  | 0                      | Pau i Eva       | 100L He                                             |
| 2020-03-05 | 78%         | 71%        | 75%         | 78%         | 63%        | 68%        | -%         | -%  |                        | Pau             |                                                     |
| 2020-02-27 | -           | -          | -           | -           | -          | -          | <b>94%</b> | -%  |                        | Pau, Eva        | 100L He                                             |
| 2020-02-26 | 81%         | 76%        | 81%         | 81%         | 66%        | 72%        | 59%        | -%  | de 140<br>a 100        | Miriam          |                                                     |
| 2020-02-19 | 84%         | 80%        | 88%         | 85%         | 69%        | 75%        | 64%        | -%  | de 210<br>a            | Eva             |                                                     |
| 2020-02-12 | 89%         | 84%        | 94%         | 86%         | 72%        | 78%        | 68%        | -%  | de 100<br>a 300        | Pau             | El tanc s'ha<br>omplert durant<br>el<br>manteniment |
| 2020-02-05 | -%          | <b>84%</b> | <b>100%</b> | -%          | -%         | %          | -%         | -%  |                        | Pau i Eva       | 100L LHe                                            |
| 2020-02-05 | 91%         | 67%        | 61%         | 89%         | 75%        | 61%        | 71%        | -   | de 200<br>a 150        | Eva             | <b>ATENCIÓ!<br/>400wb 3a<br/>setmana a<br/>75%</b>  |

| Data       | 250auto | 250robot | 360 | 400nb | 400wb | 500 | 600 | DNP | Nivells<br>tanc<br>LIN | Responsable(s) | Observacions |
|------------|---------|----------|-----|-------|-------|-----|-----|-----|------------------------|----------------|--------------|
| 2020-01-29 | 96%     | 71%      | 60% | 93%   | 75%   | 64% | 75% | -   | de 140<br>a 100        | Miriam         |              |
| 2020-01-22 | 98%     | 76%      | 67% | 96%   | 96%   | 68% | 78% | -   | de 200<br>a 170        | Pau            |              |
| 2020-01-15 | 98%     | 80%      | 74% | 98%   | 75%   | 71% | 82% | -   | de 280<br>a 250        | Eva            |              |
| 2020-01-09 | 100%    | 86%      | -%  | 100%  | 77%   | -%  | -%  | -   |                        | Pau i Eva      | 100L LHe     |
| 2020-01-08 | 63%     | 58%      | 80% | 61%   | 70%   | 75% | 83% | -   | de 150<br>a 120        | Miriam         |              |
| 2020-01-03 | 65%     | 61%      | 85% | 63%   | 72%   | 78% | 83% | -   | de 230<br>a 190        | Miriam i Eva   |              |

## Anys anteriors

Els [registres dels anys anteriors](#) es guarden en una pàgina a part.

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