

# 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 |
|------------|---------|-----|-------|-----|-----|-----|------------------|-----------------|--------------|
| 2021-01-13 | 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<br>LIN | Responsable(s)    | Observacions                                   |
|------------|---------|----------|------|-------|-------|-----|-----|-----|------------------------|-------------------|------------------------------------------------|
| 2020-12-29 | 99%     | -%       | -%   | -%    | -%    | 97% | 82% | -%  | —                      | Pau i Eva         | 100L He                                        |
| 2020-12-29 | 61%     | -%       | 80%  | 85%   | -%    | 61% | 66% | -%  | de 270<br>a 240        | Pau, Miquel i Eva |                                                |
| 2020-12-22 | 65%     | -%       | 86%  | 89%   | -%    | 66% | 70% | -%  | de 90 a<br>60          | Pau, Miquel i Eva |                                                |
| 2020-12-16 | 67%     | -%       | 91%  | 91%   | -%    | 68% | 73% | -%  | de 140<br>a 110        | Pau, Miquel       |                                                |
| 2020-12-09 | 71%     | -%       | 97%  | 94%   | -%    | 71% | 76% | -%  | de 200<br>a 170        | Míriam            |                                                |
| 2020-12-03 | -%      | -%       | 100% | 98%   | -%    | -%  | -%  | -%  | —                      | Pau i Eva         | 100L LHe                                       |
| 2020-12-02 | 74%     | -%       | 60%  | 57%   | -%    | 74% | 80% | -%  | de 290<br>a 260        | Eva               | 360MHz a 60%<br>3a setmana                     |
| 2020-11-25 | 77%     | -%       | 60%  | 61%   | -%    | 77% | 82% | -%  | de 130<br>a 105        | Míriam            | 360MHz a 60%<br>2a setmana                     |
| 2020-11-18 | 80%     | -%       | 60%  | 64%   | -%    | 80% | 83% | -%  | de 190<br>a 160        | Eva               | 360MHz a 60%<br>1a setmana, 1<br>dewar LN2     |
| 2020-11-11 | 83%     | -%       | 69%  | 67%   | -%    | 84% | 91% | -%  | de 280<br>a 250        | Pau, Teo          | 100L LHe                                       |
| 2020-11-04 | 88%     | -%       | 75%  | 55%   | -%    | 87% | 63% | -%  | de 140<br>a 110        | Eva               |                                                |
| 2020-10-29 | 91%     | 0%       | 82%  | 58%   | 0%    | 88% | 67% | -%  | —                      | Miquel i Eva      | Quench<br>controlat<br>250MHz robot<br>i 400wb |
| 2020-10-28 | 91%     | 68%      | 82%  | 58%   | 53%   | 88% | 67% | -%  | de 200<br>a 180        | Pau               | Nivell 250Hz-<br>robot estimat                 |
| 2020-10-21 | 95%     | 73%      | 88%  | 61%   | 56%   | 89% | 70% | -%  | de 280<br>a 250        | Eva               | Nivell 250Hz-<br>robot estimat                 |
| 2020-10-14 | 98%     | 78%      | 94%  | 64%   | 59%   | 89% | 74% | -%  | de 140<br>a 100        | Míriam            |                                                |
| 2020-10-07 | 98%     | —        | 100% | —     | —     | 89% | —   | -%  | —                      | 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         |                                                |

| Data       | 250auto     | 250robot   | 360         | 400nb      | 400wb      | 500        | 600        | DNP | Nivells<br>tanc<br>LIN | Responsable(s)  | Observacions                                                     |
|------------|-------------|------------|-------------|------------|------------|------------|------------|-----|------------------------|-----------------|------------------------------------------------------------------|
| 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 a 110           | Míriam          |                                                                  |
| 2020-09-09 | 73%         | 58%        | 84%         | 78%        | 74%        | 81%        | 76%        | -%  | de 210 a 170           | Eva             |                                                                  |
| 2020-09-02 | 76%         | 63%        | 91%         | 80%        | 75%        | 85%        | 79%        | -%  | de 290 a 270           | Eva             | <b>400wb 3a setmana al 75%!</b>                                  |
| 2020-08-26 | 79%         | 68%        | 97%         | 84%        | 75%        | 88%        | 82%        | -%  | de 180 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 a 230           | Miquel i Míriam | <b>500MHz a 89% 3a setmana!</b>                                  |
| 2020-08-12 | 84%         | 78%        | 66%         | 87%        | 76%        | 89%        | 64%        | -%  | de 130 a 100           | Miquel i Míriam |                                                                  |
| 2020-08-04 | 89%         | 82%        | 73%         | 89%        | 79%        | 89%        | 67%        | -%  | de 200 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 a 260           | Teo i Míriam    |                                                                  |
| 2020-07-22 | 98%         | 87%        | 91%         | 98%        | 65%        | 66%        | 70%        | -%  | de 180 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 a               | Teo i Míriam    |                                                                  |
| 2020-07-08 | 98%         | 89%        | 98%         | 54%        | 71%        | 72%        | 77%        | -%  | de 120 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 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 a 270           | Pau i Eva       | <b>360MHz a 60% 2a setmana!</b> |
| 2020-06-17 | 67%     | 69%      | 60% | 65%   | 75%        | 81% | 83%        | -%  | de 150 a 120           | Pau i Eva       | <b>360MHz a 60% 1a 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 a 190           | Míriam i Miquel |                                 |

| Data       | 250auto     | 250robot   | 360         | 400nb       | 400wb      | 500        | 600        | DNP | Nivells<br>tanc<br>LIN | Responsable(s)  | Observacions                                                         |
|------------|-------------|------------|-------------|-------------|------------|------------|------------|-----|------------------------|-----------------|----------------------------------------------------------------------|
| 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 omplert durant el 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!</b><br><b>400wb 3a</b><br><b>setmana a</b><br><b>75%</b> |
| 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 | <b>100%</b> | <b>86%</b> | -%          | <b>100%</b> | <b>77%</b> | -%         | -%         | -   |                        | 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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