**Table S2: Photoprotective strategies in Mediterranean high-mountain grasslands.**

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**Table S2.** Diurnal changes in the photochemical efficiency of PSII, Fv/Fm, and the related parameters of minimal fluorescence (F0) and maximal fluorescence (Fm) measured in E. penyalarense and S. carpetanus growing at the extremes of the elevation gradient (1980 and 2244 m) and in H. vahlii, and J. humilis from 2244 m. Measurements were taken at the time of sample collection for the VAZ analysis in 2018 and 2019. ND, no data.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Elevation (m.a.s.l.) | Species | Interval | F0 | | Fm | | Fv/Fm | |
| **2018** | **2019** | **2018** | **2019** | **2018** | **2019** |
| 1980 | *Erysimum penyalarense* | Morning | 573.00 | 514.00 | 3164.00 | 3412.00 | 0.815 | 0.849 |
| Midday | 522.35 | 613.00 | 2974.63 | 3675.00 | 0.822 | 0.833 |
| Afternoon | 515.01 | 444.00 | 2699.00 | 2452.45 | 0.801 | 0.800 |
| *Senecio carpetanus* | Morning | 519.67 | 274.29 | 2701.00 | 3886.00 | 0.807 | 0.831 |
| Midday | 598.00 | 500.00 | 2291.00 | 2869.00 | 0.739 | 0.777 |
| Afternoon | 515.00 | 565.30 | 6700.01 | 3018.09 | 0.800 | 0.810 |
| 2244 | *Erysimum penyalarense* | Morning | 605.00 | 571.67 | 3169.99 | 2257.50 | 0.810 | 0.839 |
| Midday | 815.00 | 949.00 | 3352.50 | 3465.20 | 0.757 | 0.695 |
| Afternoon | ND | 506.60 | ND | 2167.00 | ND | 0.778 |
| *Senecio carpetanus* | Morning | 610.98 | 436.75 | 2964.69 | 1727.25 | 0.729 | 0.725 |
| Midday | 568.99 | 564.80 | 2566.99 | 2554.40 | 0.739 | 0.779 |
| Afternoon | ND | 524.33 | ND | 3268.00 | ND | 0.801 |
| *Hieracium vahlii* | Morning | 522.33 | 566.33 | 2978.67 | 3017.00 | 0.823 | 0.813 |
| Midday | 42.,5 | 602.43 | 2156.50 | 2951.86 | 0.782 | 0.760 |
| Afternoon | ND | 445.50 | ND | 2440.25 | ND | 0.805 |
| *Jurinea humilis* | Morning | 424.99 | 612.00 | 2154.98 | 2962.67 | 0.780 | 0.774 |
| Midday | 380.63 | 625.67 | 1531.00 | 1670.67 | 0.524 | 0.560 |
| Afternoon | ND | 485.00 | ND | 1960.33 | ND | 0.702 |