Table 1. Climate variables, seasons and terciles for which SEAS5 had significant skill, as assessed by comparison to ERA5 over the period 1993-2016.

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| --- | --- | --- | --- | --- |
| **Site** | **Number of skilful /total combinationsa** | **Skilful climate variable/season/tercile combinations** | | |
| **Season** | **Variableb** | **Tercile** |
| Australia | 9/108 | Autumn (Mar-May) | rlds | above |
| Spring (Sep-Nov) | cc | above |
| petH | Above |
| psl | Above |
| rsds | Above |
| tas | Normal |
| Summer (Dec-Feb) | psl | Above |
| tdps | Above |
| Winter (June-Aug) | cc | Normal |
| Germany | 3/96 | Spring (Mar-May) | tdps | Above |
| Winter (Dec-Feb) | rlds | Normal |
| vas | Below |
| Ireland | 0/18 | None | | |
| Norway | 10/96 | Spring (Mar-May) | psl | Normal |
| psl | Above |
| tas | Above |
| tcc | Normal |
| tdps | Below |
| uas | Above |
| vas | Below |
| Winter (Dec-Feb) | rlds | Normal |
| rsds | Above |
| tcc | Below |
| 2/108 | Early summer (May-Jul) | rsds | Above |
| Spain | 5/108 | Autumn (Sep-Nov) | cc | Above |
| Spring (Mar-May) | cc | Above |
| psl | Above |
| Summer (Jun-Aug) | cc | Above |
| tdps | Above |

a ROCSS were calculated for z total data ‘slices’, where z = x met variables \* y seasons \* 3 terciles.

b Met variables abbreviations: psl: surface pressure, tcc: total cloud cover, uas: 10 m U wind component, vas: 10 m V wind component, tas: 2 m temperature, tdps: 2 m dewpoint temperature, rsds: downwards surface solar radiation, rlds: downwards surface thermal radiation, tp: total precipitation.