# TIMELINE

5th Nov G1 Departure from Hobart

*8-10th* Departure from Christchurch Southbound

12th Nov G2 Departure from Hobart to Christchurch

12-17th Nov G1 departure from Scott base to the camp (+2-3 days unpacking camp set-up)

17th Nov G2 departure from Scott base to camp

24th Nov Vanessa leaves camp

27th Nov Vanessa Leaves Scott base

5th Dec Departure from camp (-2-3 days packing and camp dismantling)

*11th* Departure from Scott Base Northbound

12th Dec Departure from Christchurch to Hobart

Travel & others

CAMP & EQUIPMENT PREPARATION (W&P)

SAMPLING FIELD ACTIVITIES (SFA)

PACKING AND CLEANING (PCK)

Travel & others

|  |  |
| --- | --- |
| November 2018 | December 2018 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 |  | 28 | 29 | 30 | 31 |  |

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|  | Main data | Validation & support data  |
| Methods/operations | Under-ice HI transects | HI ice core scanning and imaging | Botty (Seabotix LBV300 ROV) | L-arm deployment | Sea-ice physical properties | Sea-ice biological properties | Water column bio-optics |
| Data/techniques (in order of priority) | \*HI under-ice data\*Under-ice photogrammetry (Sony & GoPros)\*TriOS irradiance\*Panels calibration\*Surface photogrammetry | \*HI core data (vertical and horizontal)\*Macro photogrammetry\*I-PAM | \*Dual GoPro photogrammetry\*Insta360 footage\*TriOS irradiance | \*TriOS irradiance \*Photogrammetry | \*Ice coring\*Temperature\*Salinity\*Ice thickness\*Snow depth\*Thick sections | \*Ice coring\*Chl-a\*HPLC\*Absorption | \*Irradiance profiles\*Water sample(chl-a, HPLC, Abs.) |
| Purpose | \*New HI method\*Spatial variability of sea-ice algae at C.E.\*Environmental drivers | \*New HI method\*Bio-optics correlations\*Environmental drivers\*Ice structure\*Photophysiology & species composition | \*HI transect wire/rope set-up\*Ice inspection\*Low-cost new method for ice structure\*Cool footage | \* Bio-optics correlations\*Under-ice inspection\*Structure | \*Validation\*Data analysis | \* Bio-optics correlations\*Validation\*Data analysis | \*Validation\*Data analysis |
| When | \*Main component of the mission focus on getting this done | \*First tests before arrival of G2\*After every transect coupled with sea-ice physical and biological properties | \*ASAP after arrival of G2 | \*Occasional or under-scanned transects | \*Within 2 days of successful HI transect  | \*Within 2 days of successful HI transect HI core scanning | \*Within 2 days of successful HI transect |
| Estimated time | ½-1 day | ½-1 day | ½-1 day | ½-1 day | ½-1 day | ½ day |
| Where | On pre-marked transects | On the scanned transects, on snow depth modification areas or others targeted spots | On pre-marked transects, under ice camp and other exploration areas | Under scanned transect | On scanned transects, on snow depth modification areas or other targeted spots | Within scanned transects area |
| Min. people needed | 4 | 2 | 3 | 2 | 2 | 2 | 2 |
| Priority | 1 | 1 | 4 | 5 | 3 | 3 | 4 |
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