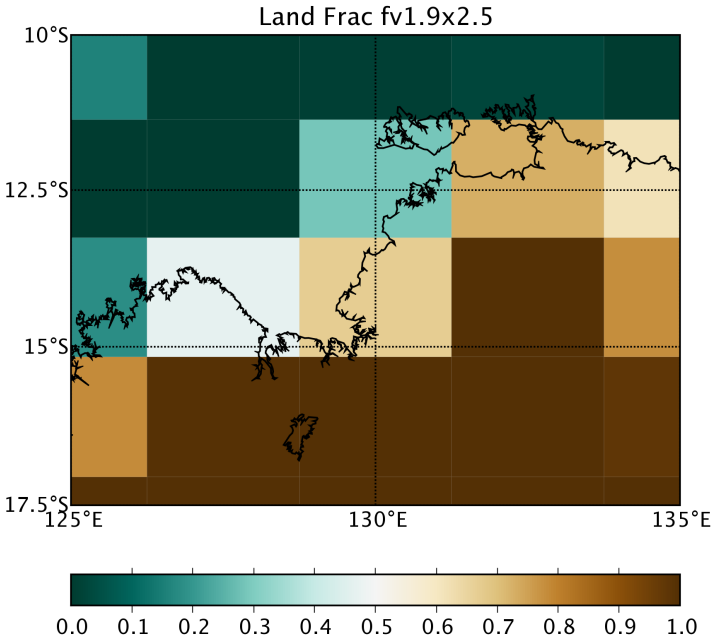
Experiments

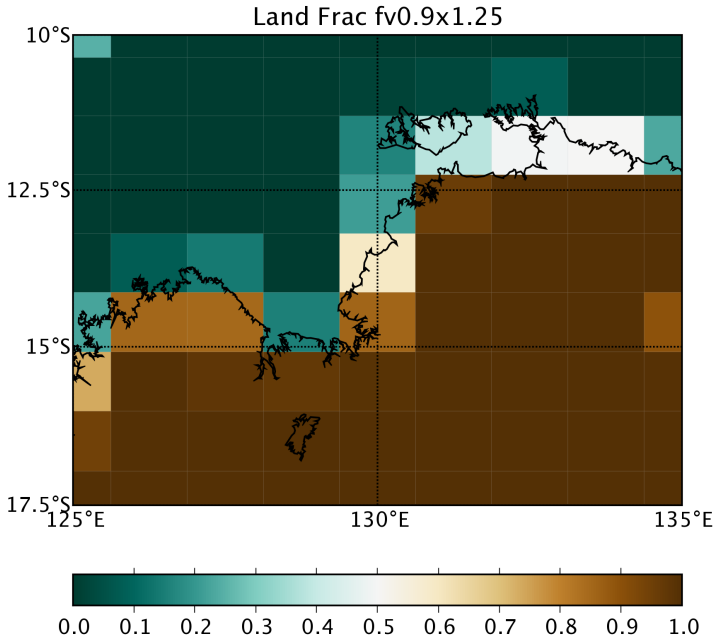
horizontal	vertical	micro physics	boundary layer
1.9° x 2.5°	26	MG	Default
1.9° x 2.5°	26	RK	Default
1.9° x 2.5°	30	MG	UW
1.9° x 2.5°	30	RK	UW
0.9° x 1.25°	26	MG	Default

Table: CAM Configurations

Comparing Two CAM resolutions

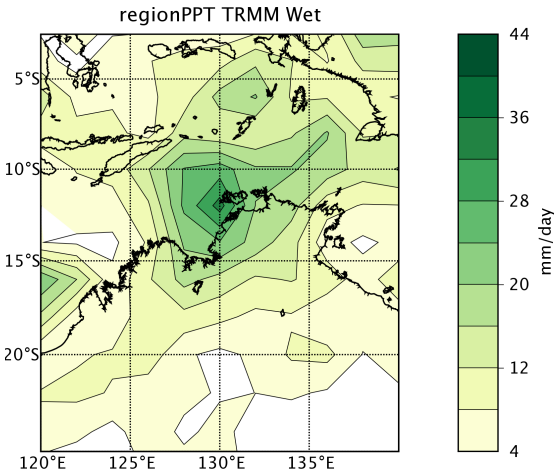


(a) 1.9 x 2.5

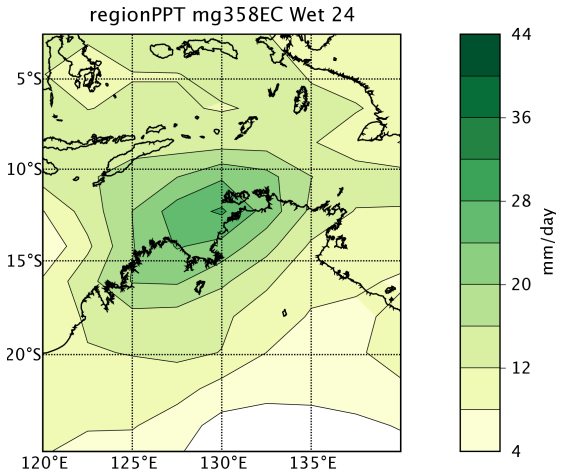


(b) 0.9 x 1.25

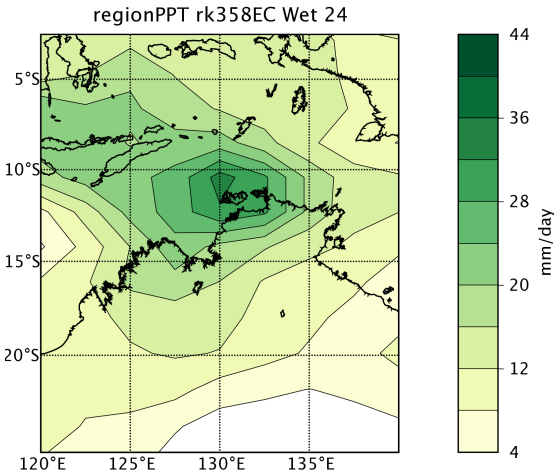
Rainfall - Wet Period 13-25 January 2006



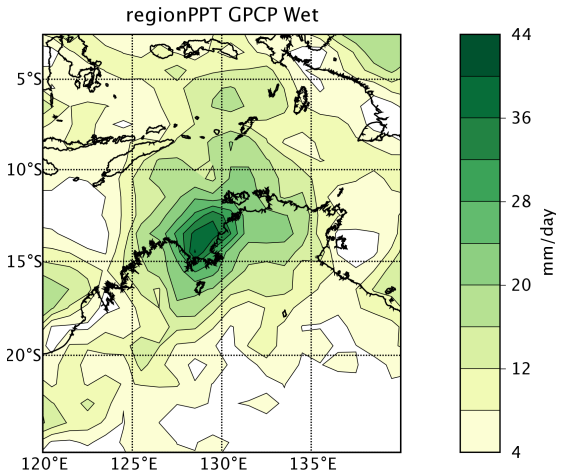
(a) TRMM



(c) MG

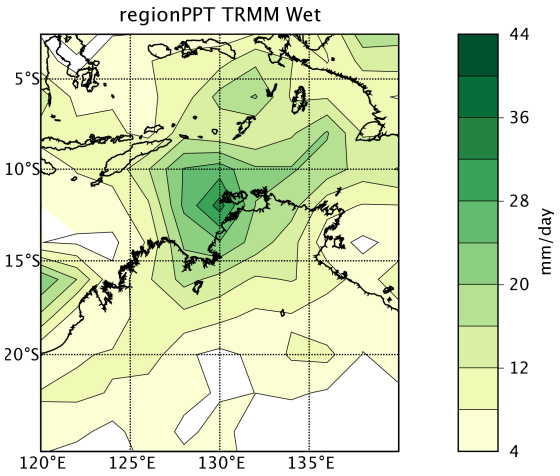


(b) RK

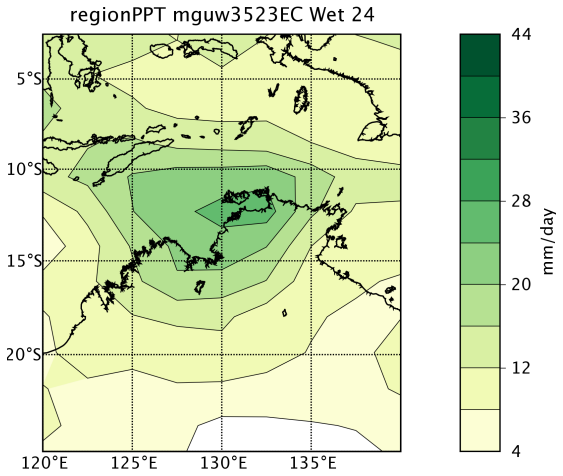


(d) GPCP

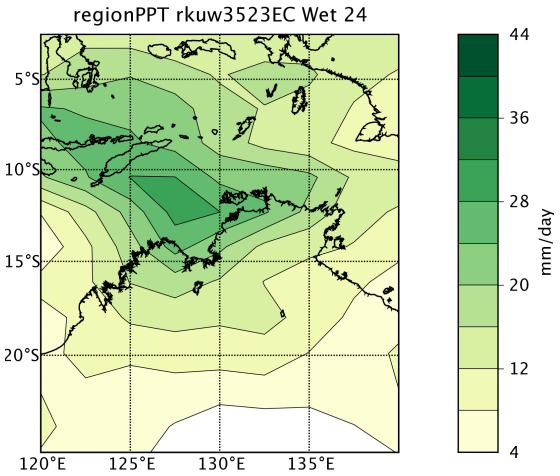
Rainfall - Wet Period 13-25 January 2006



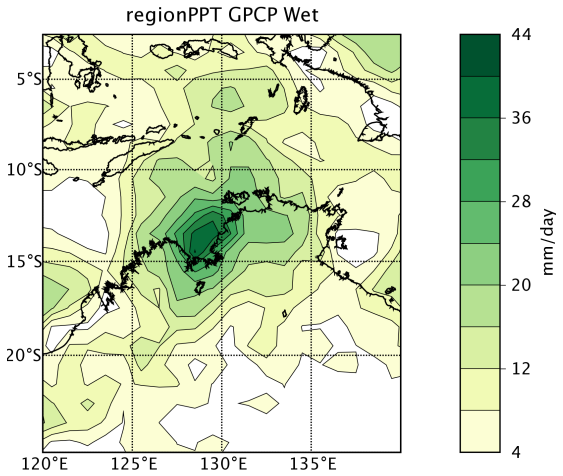
(a) TRMM



(c) MG-UW

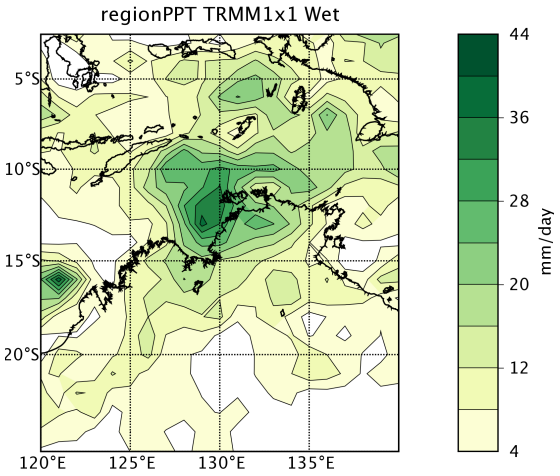


(b) RK-UW

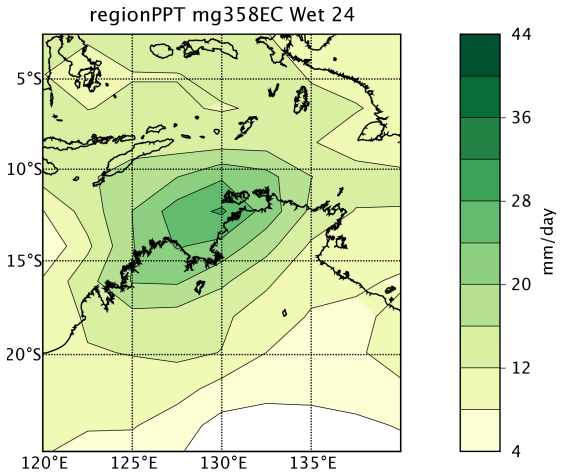


(d) GPCP

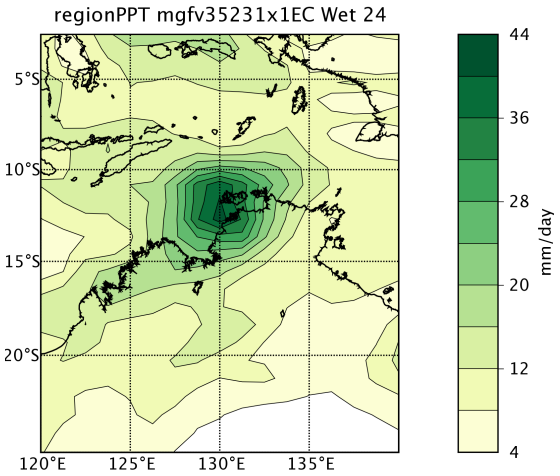
Rainfall - Wet Period 13-25 January 2006



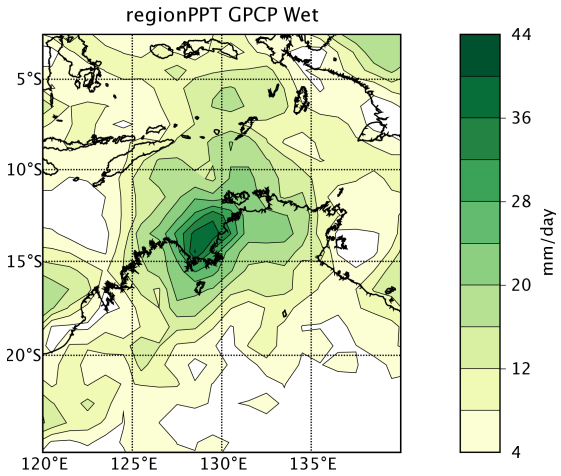
(a) TRMM



(c) MG

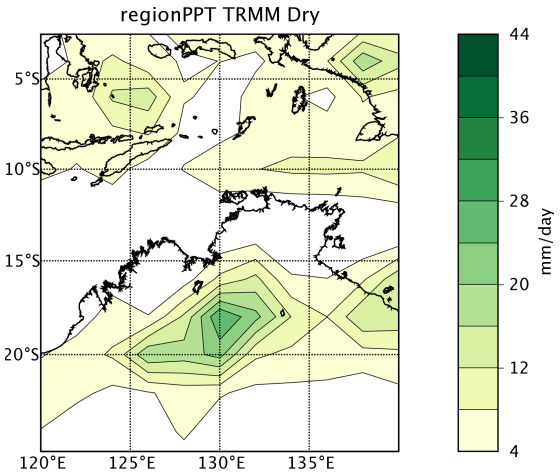


(b) MG-1x1

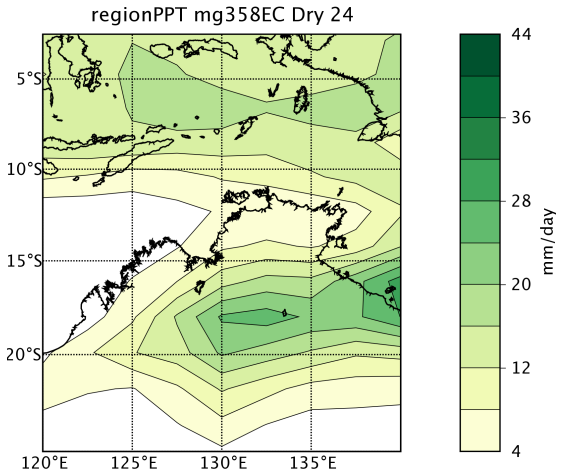


(d) GPCP

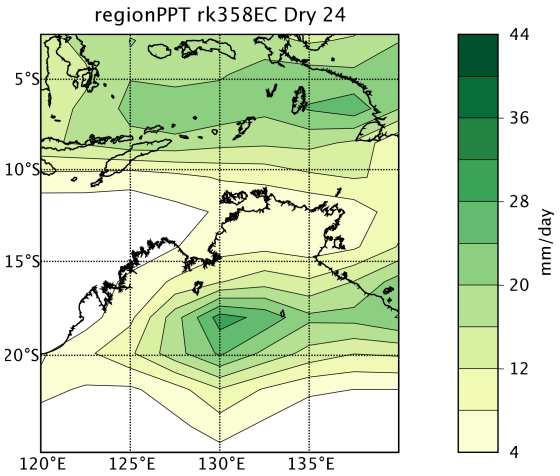
Rainfall - Dry Period 26 January - 3 February 2006



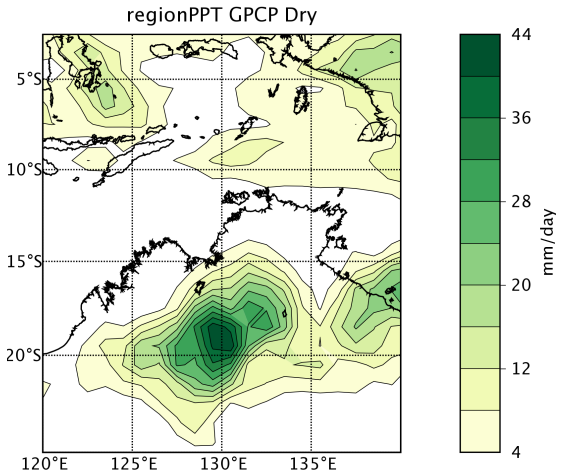
(a) TRMM



(c) MG

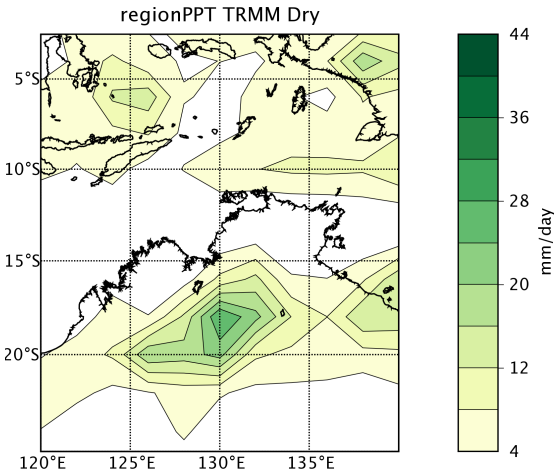


(b) RK

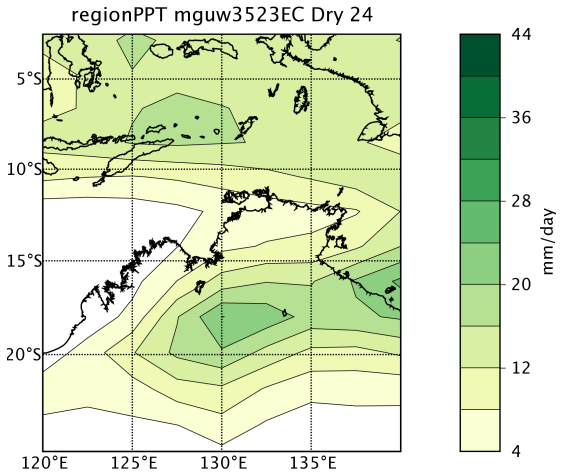


(d) GPCP

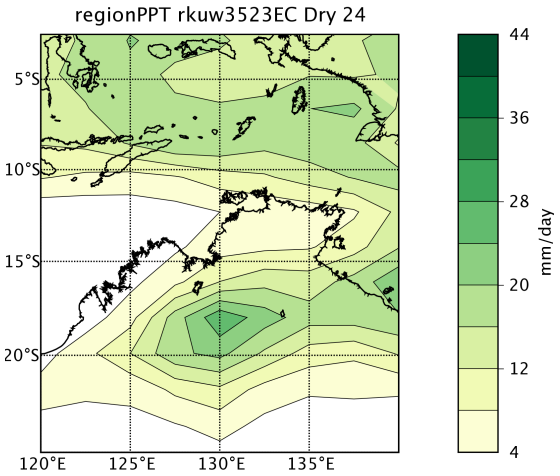
Rainfall - Dry Period 26 January - 3 February 2006



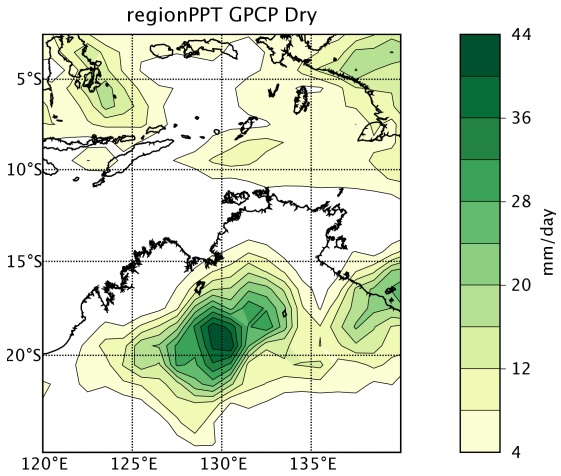
(a) TRMM



(c) MG-UW

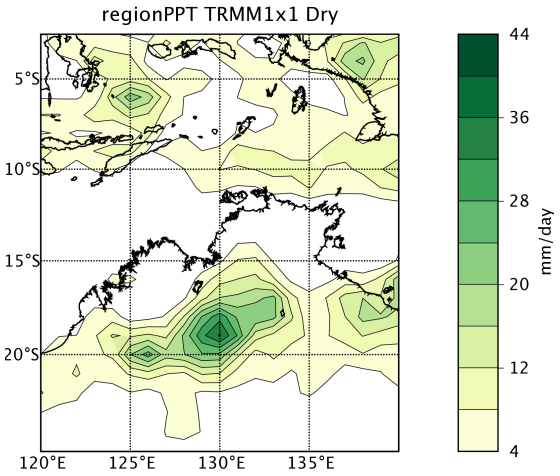


(b) RK-UW

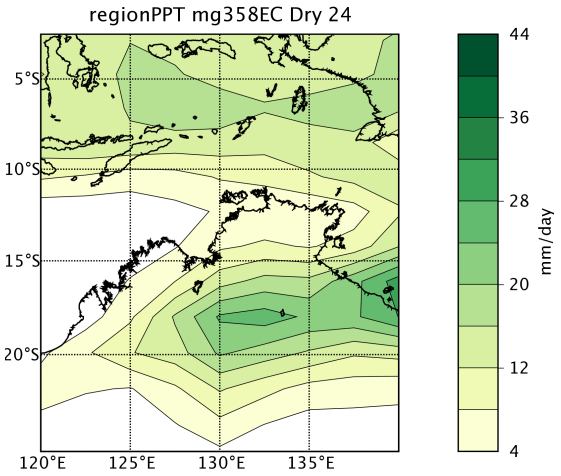


(d) GPCP

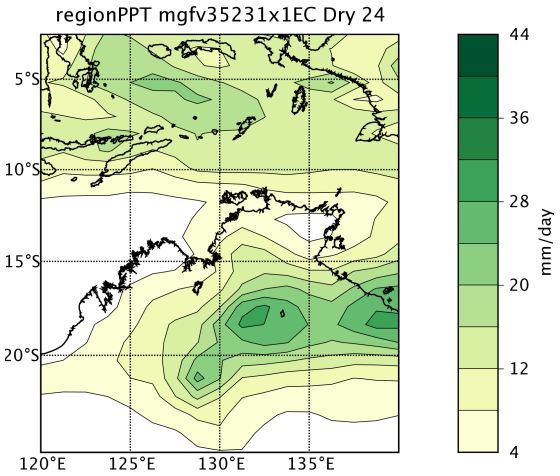
Rainfall - Dry Period 26 January - 3 February 2006



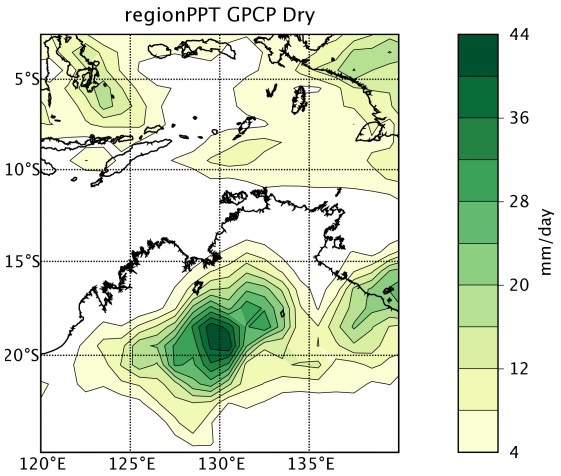
(a) TRMM



(c) MG

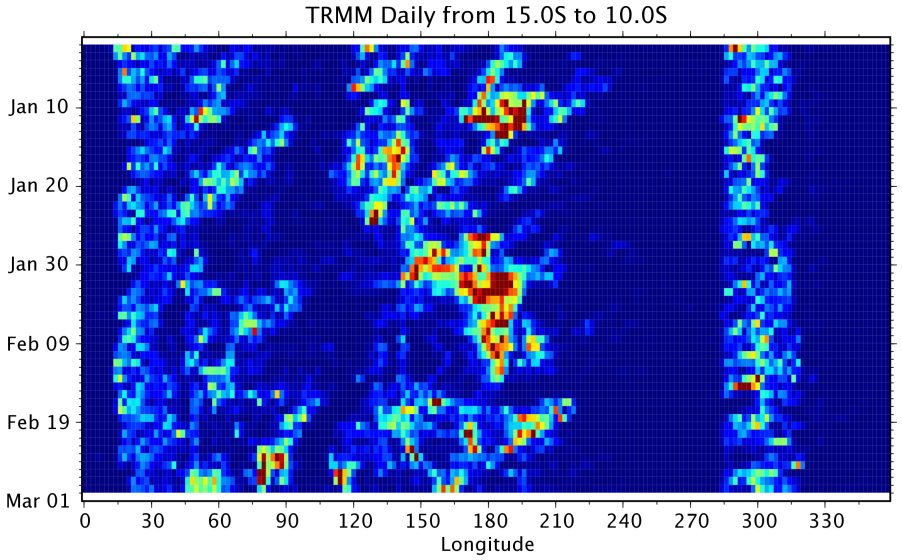


(b) MG-1x1

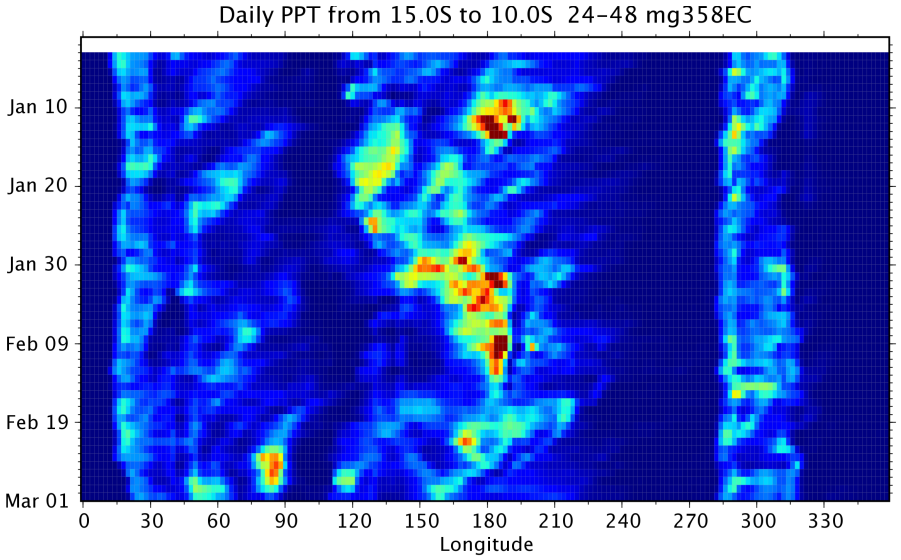


(d) GPCP

Daily Rainfall from 15S to 10S for January -February 2006

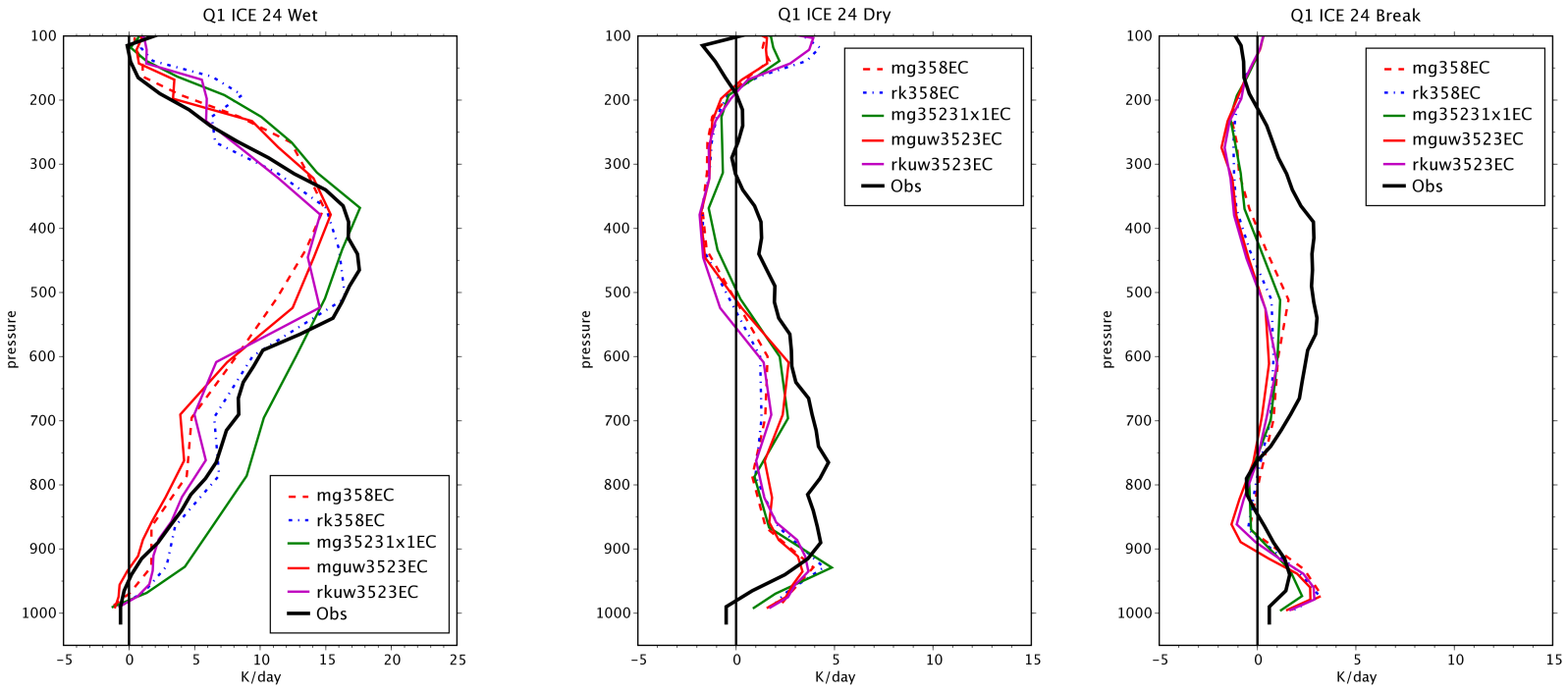


(a) TRMM



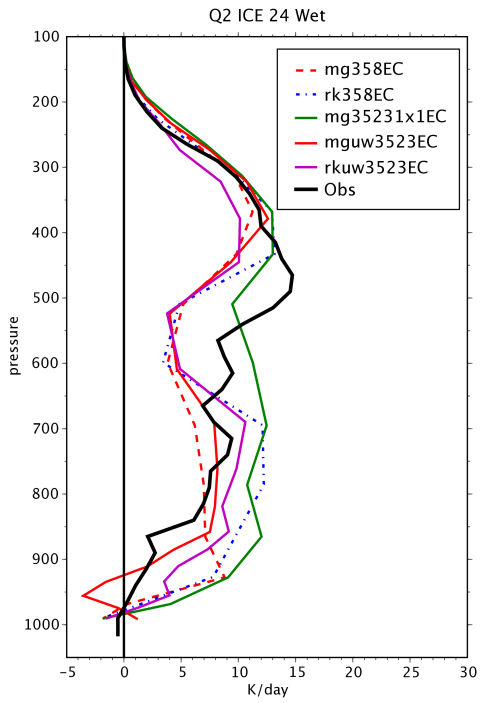
(b) MG

Q1 over TWP ICE

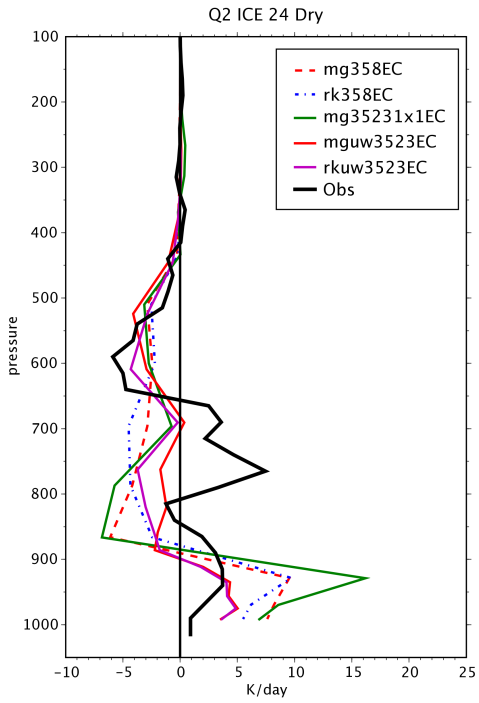


(a) Wet (b) Dry (c) Break

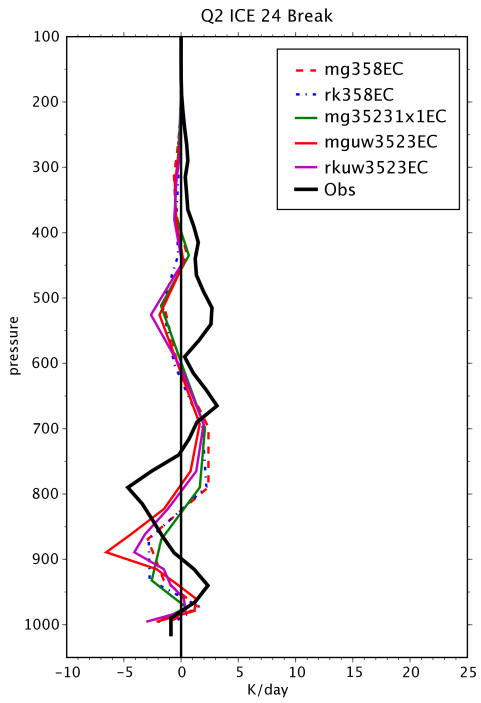
Q2 over TWP ICE



(a) Wet

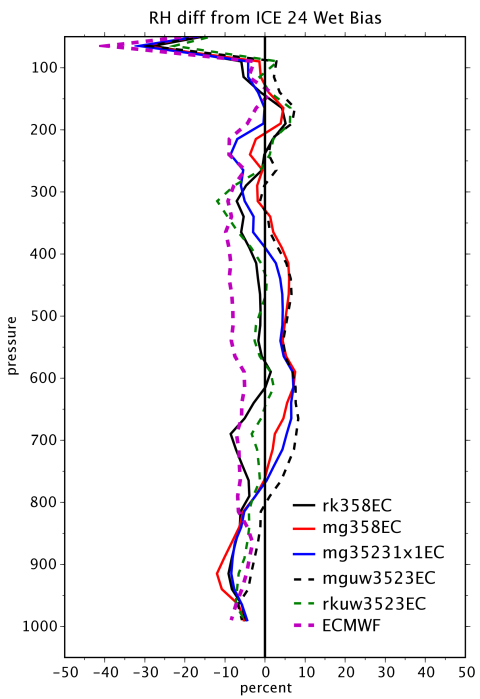


(b) Dry

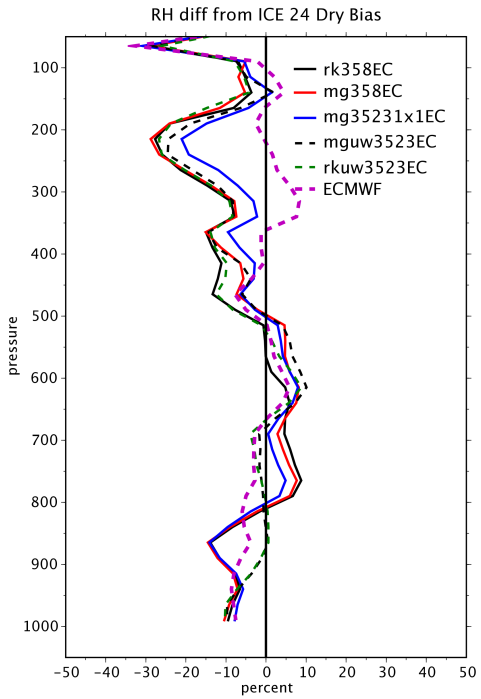


(c) Break

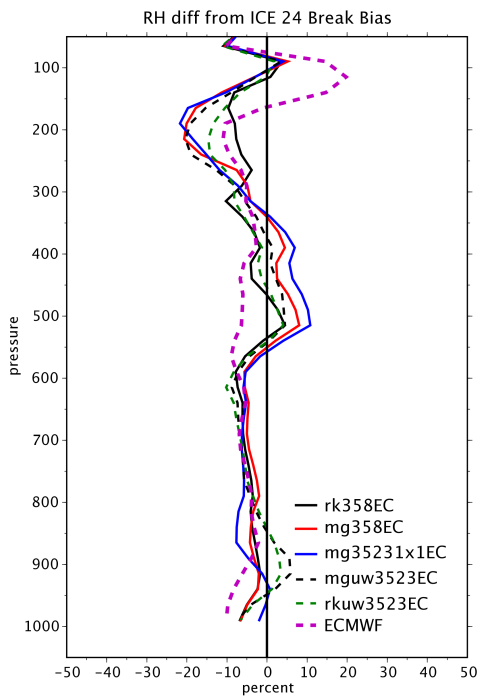
RH Bias over TWP ICE



(a) Wet

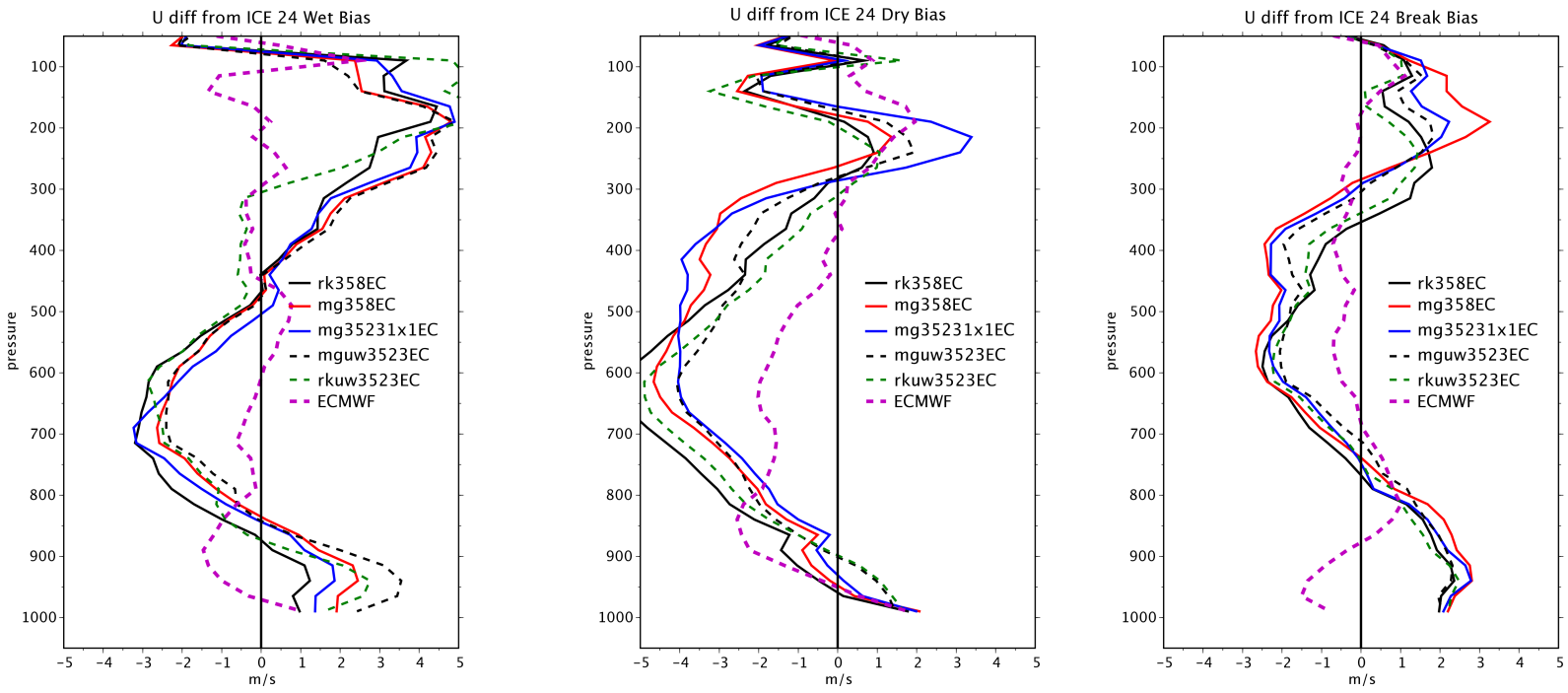


(b) Dry



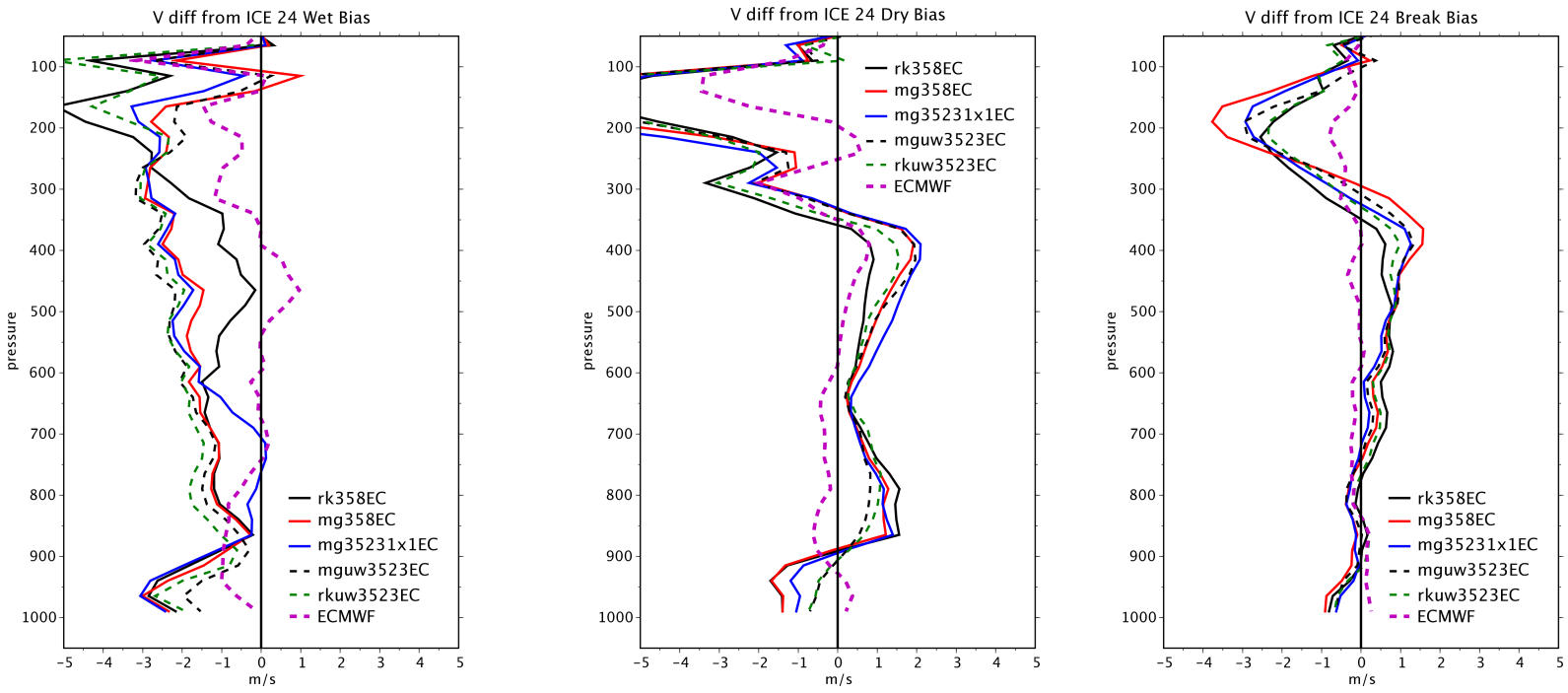
(c) Break

Zonal Wind Bias over TWP ICE



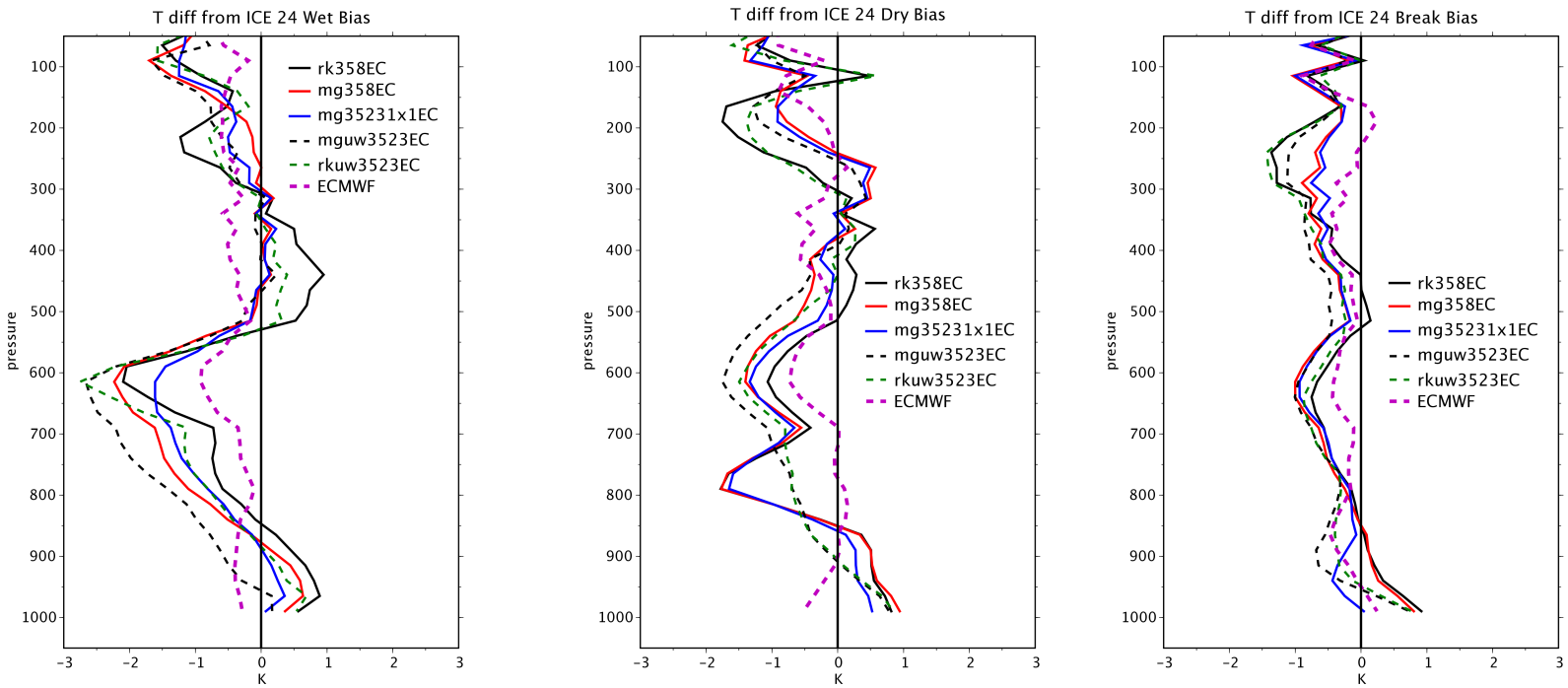
(a) Wet (b) Dry (c) Break

Meridional Wind Bias over TWP ICE



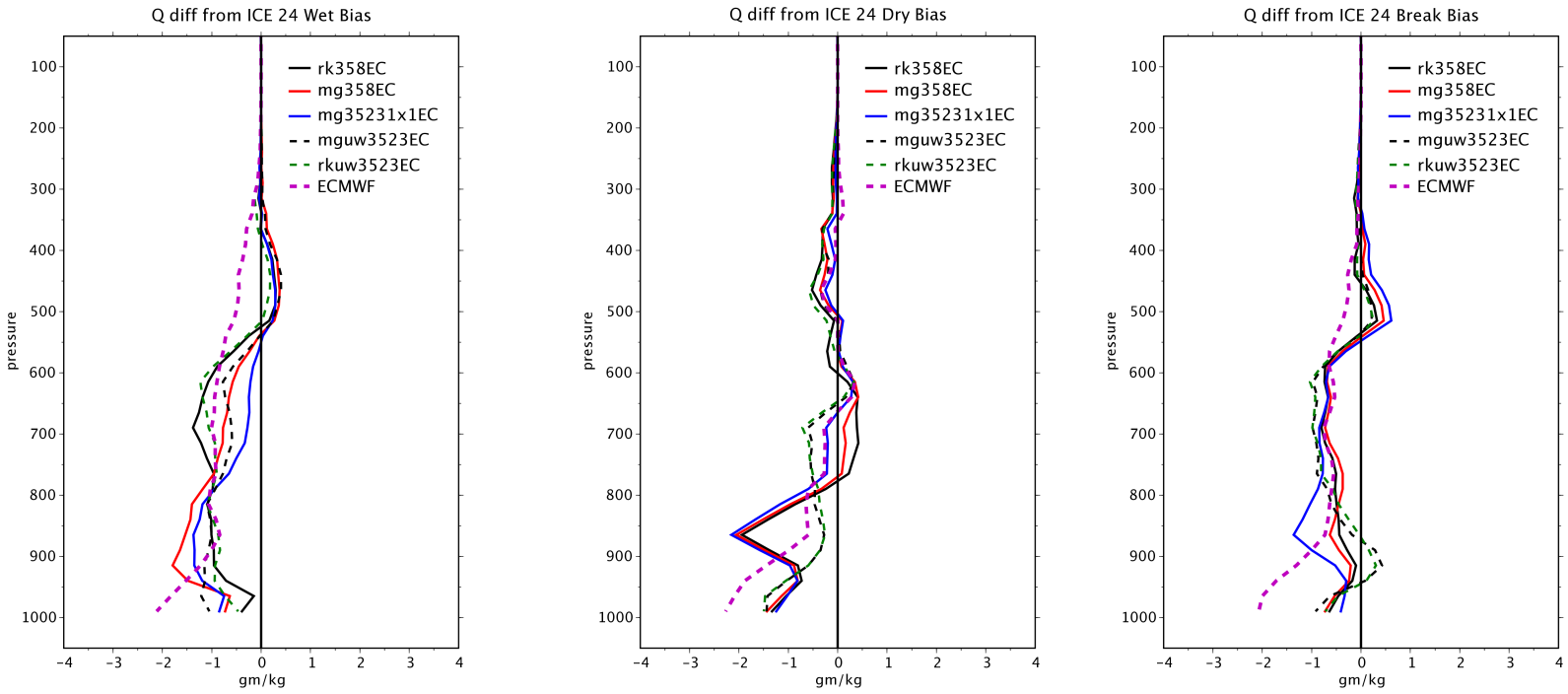
(a) Wet (b) Dry (c) Break

Temperature Bias over TWP ICE



(a) Wet (b) Dry (c) Break

Specific Humidity Bias over TWP ICE



(a) Wet (b) Dry (c) Break

Active Remotely Sensed Cloud (ARSCL) at Darwin

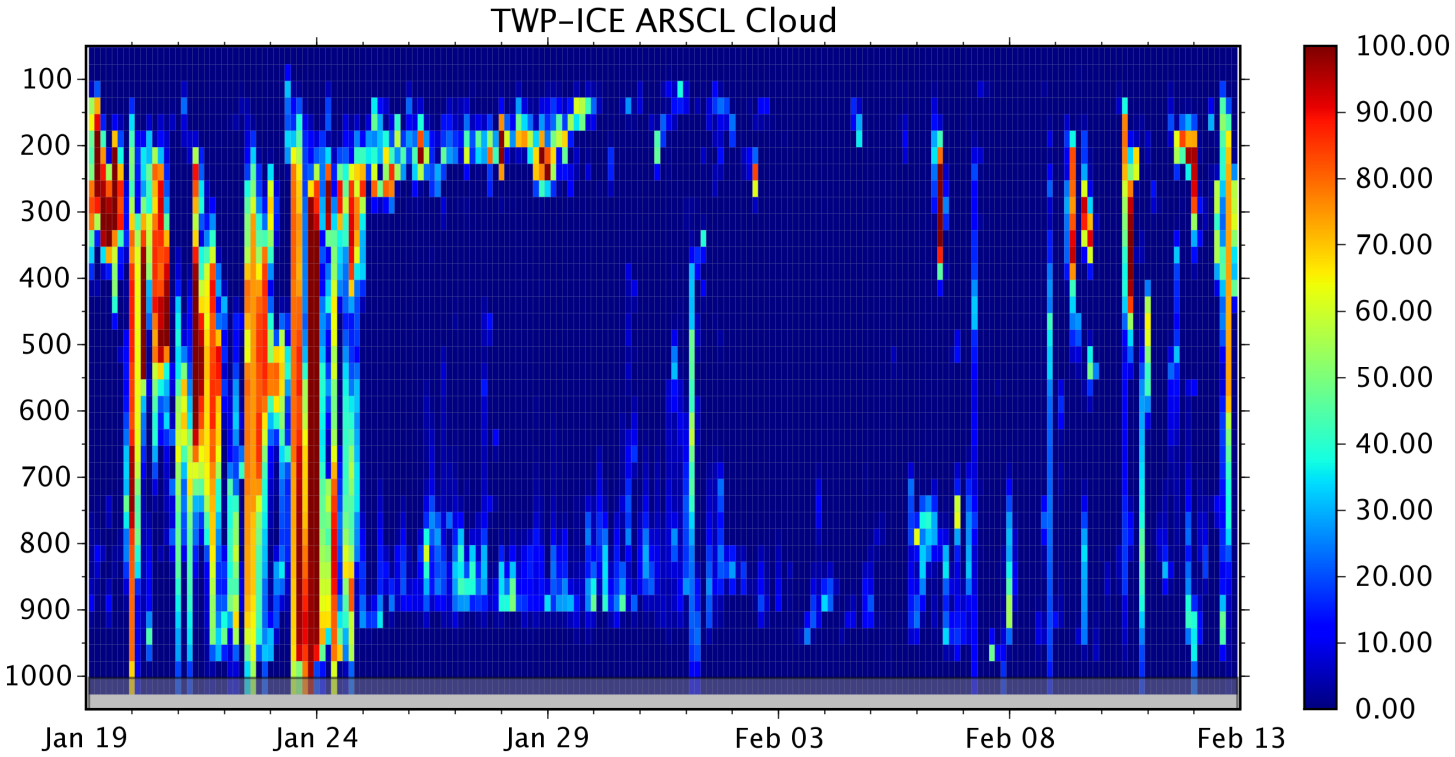
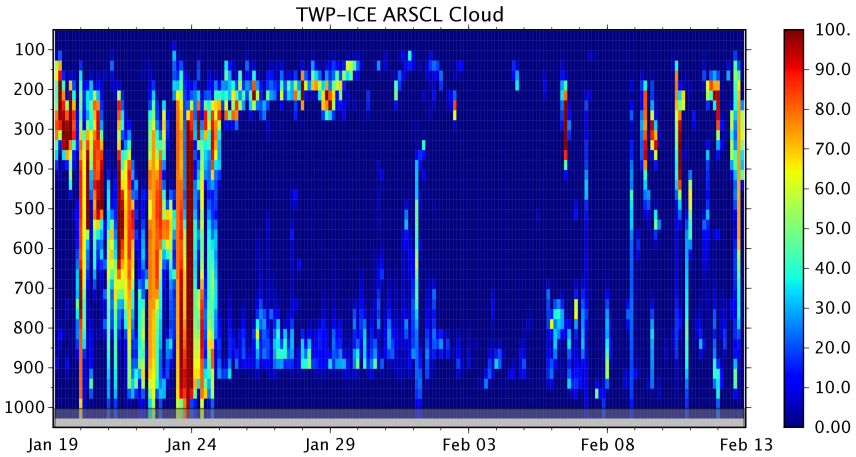
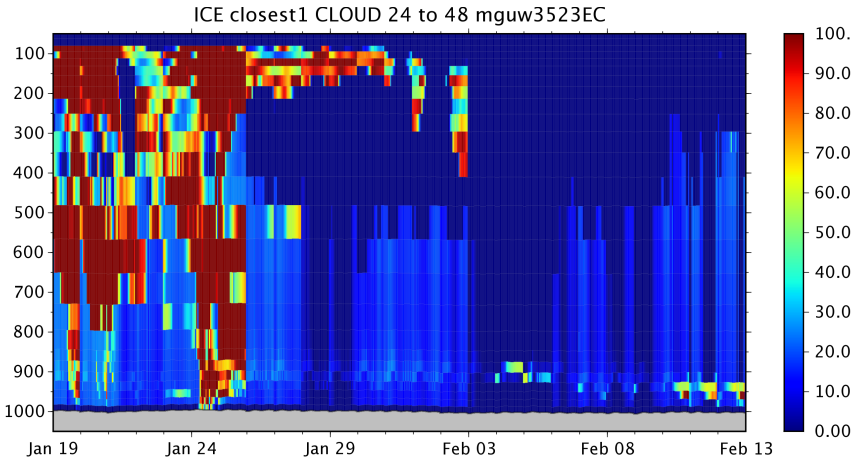


Figure: Time-Pressure of ARSCL cloud fraction estimates for the TWP-ICE experiment. Data is from instruments located only at Darwin.

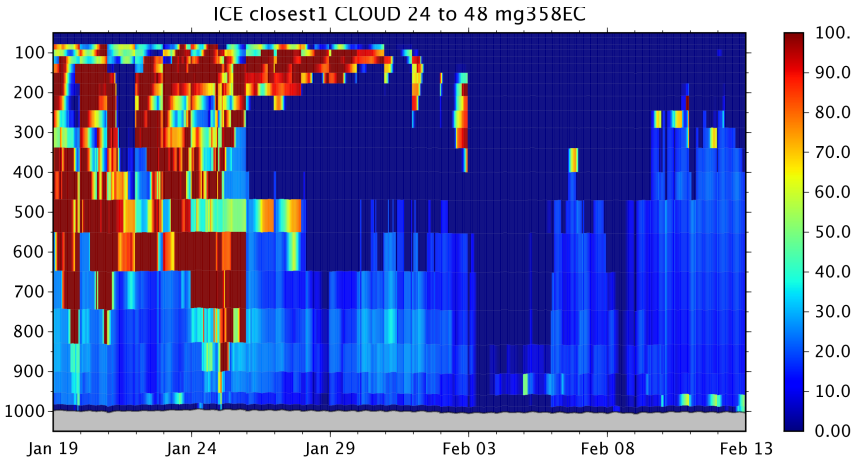
Cloud Fraction at Darwin



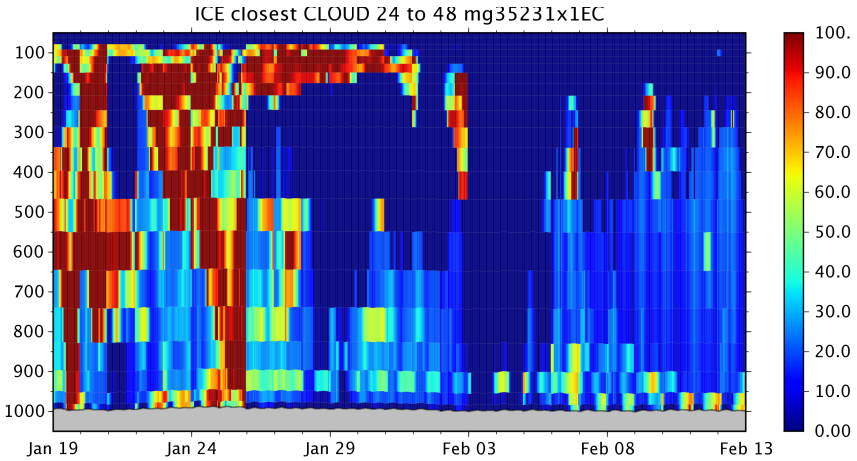
(a) ARSCL



(c) UWMG

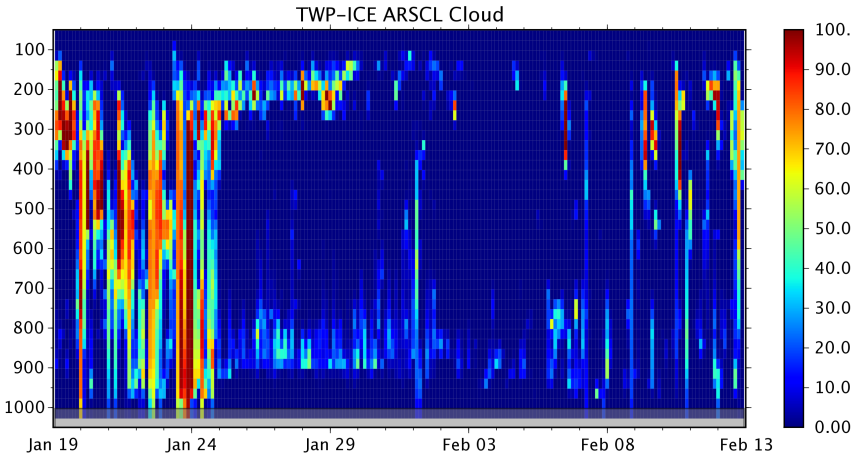


(b) MG

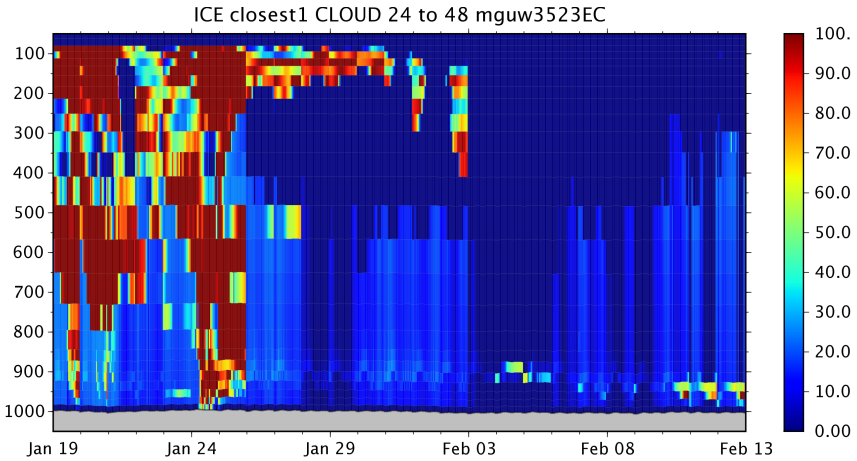


(d) 1x1 MG

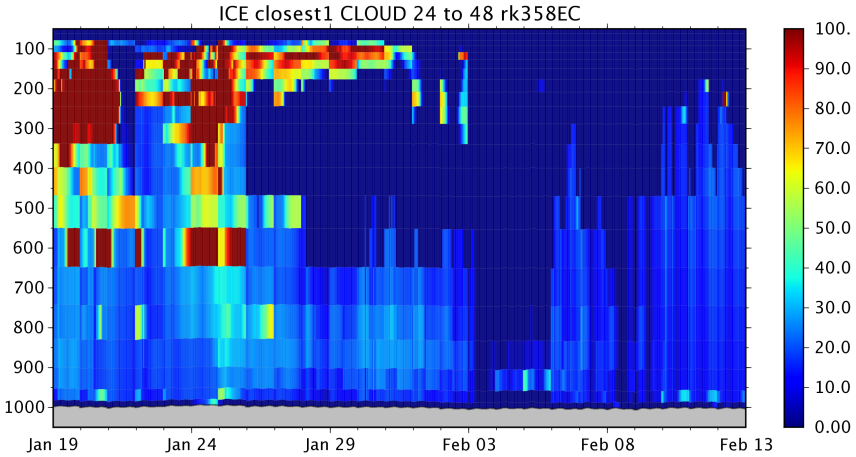
Cloud Fraction at Darwin



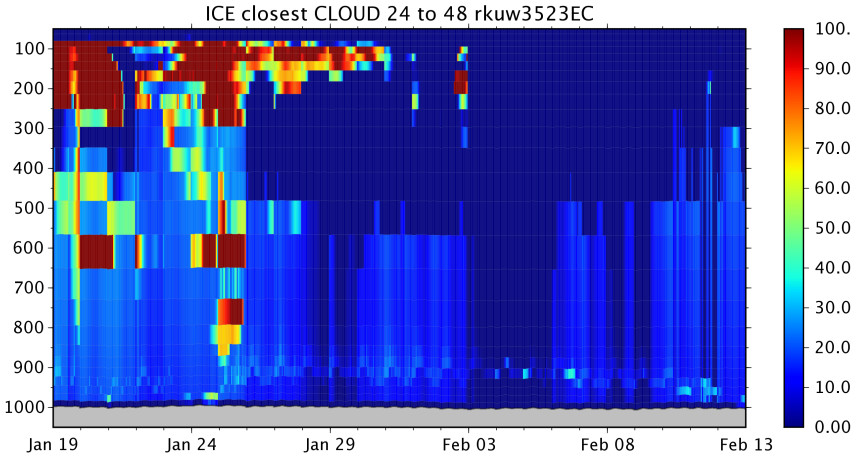
(a) ARSCL



(c) UWMG

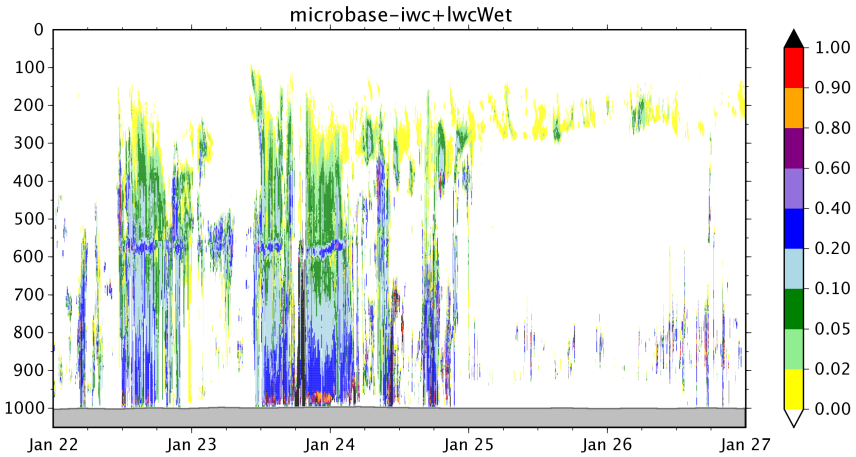


(b) RK

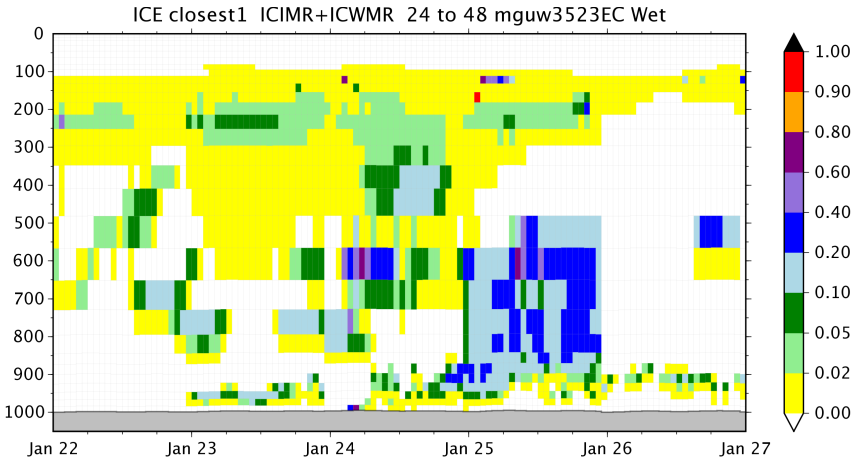


(d) UWRK

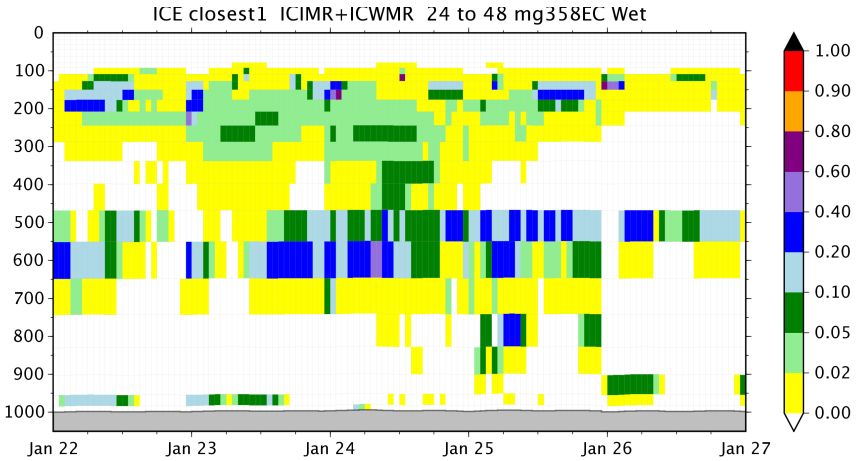
Cloud Ice and Liquid at Darwin Wet Period



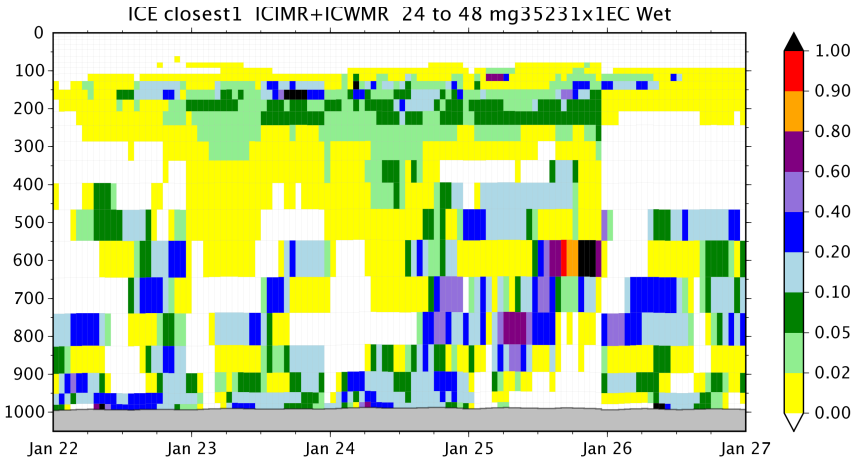
(a) microBase



(c) UWMG

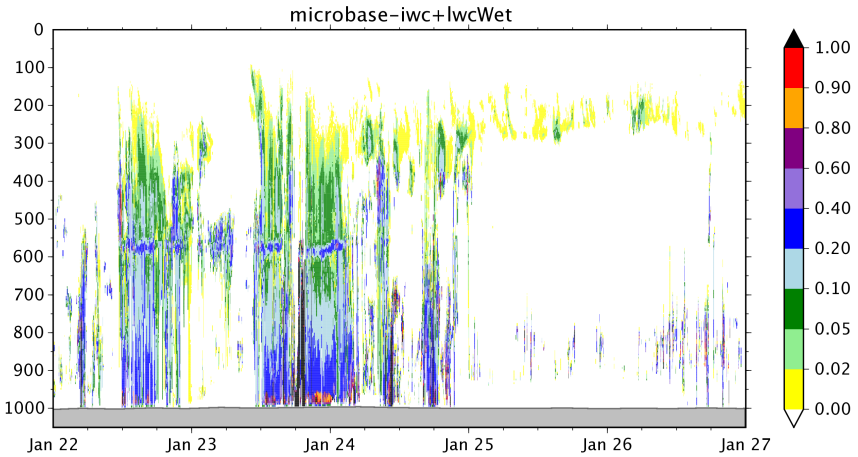


(b) MG

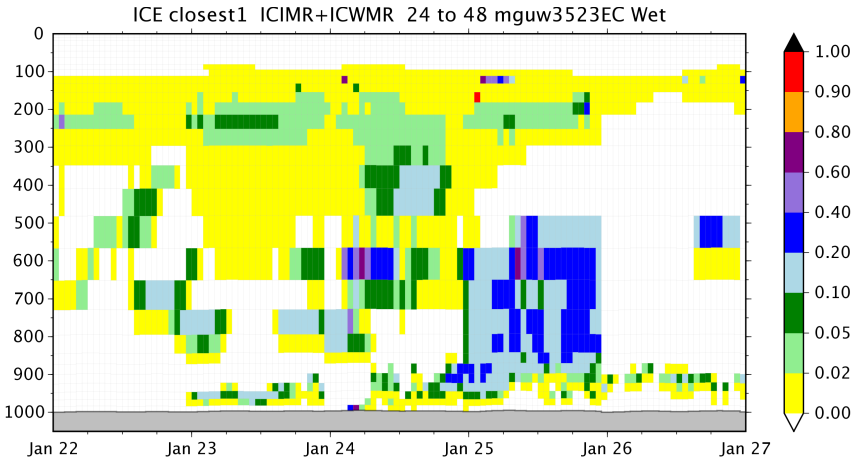


(d) 1x1 MG

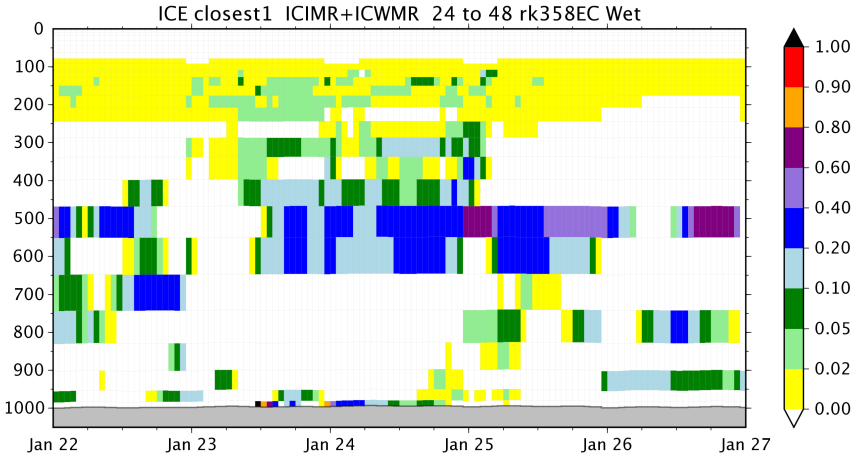
Cloud Ice and Liquid at Darwin Wet Period



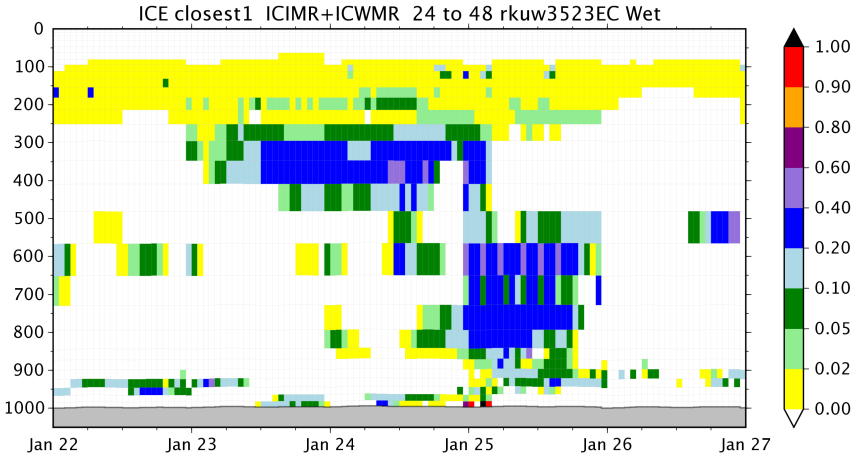
(a) microBase



(c) UWMG

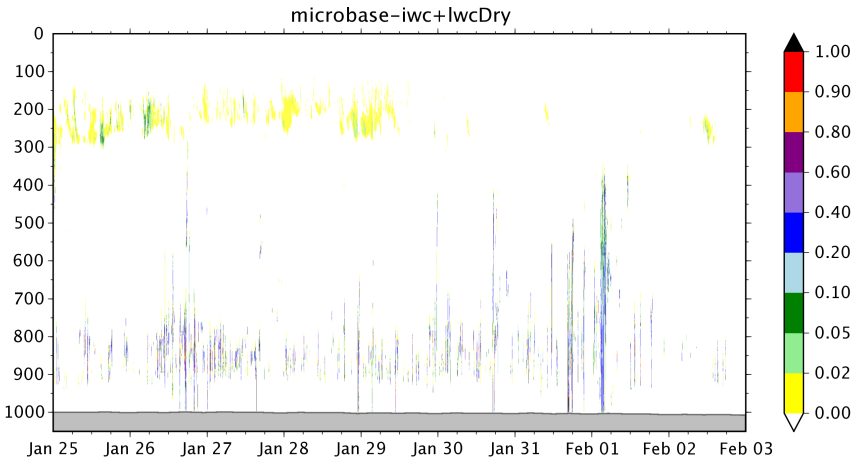


(b) RK

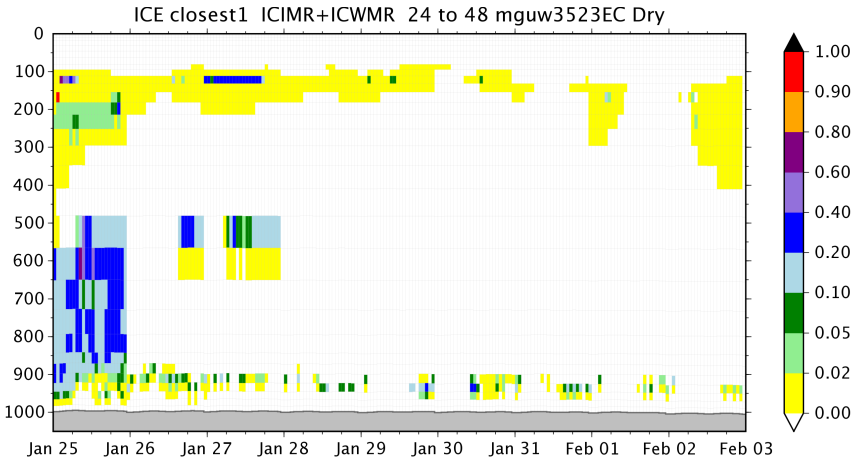


(d) UWRK

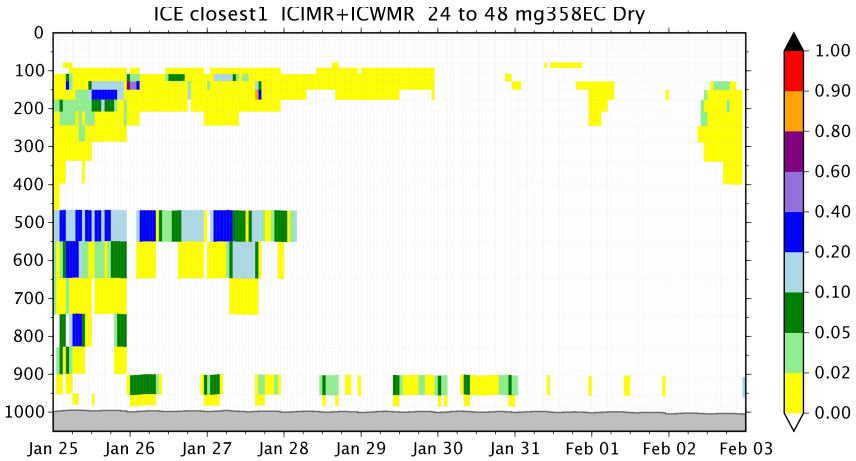
Cloud Ice and Liquid at Darwin Dry Period



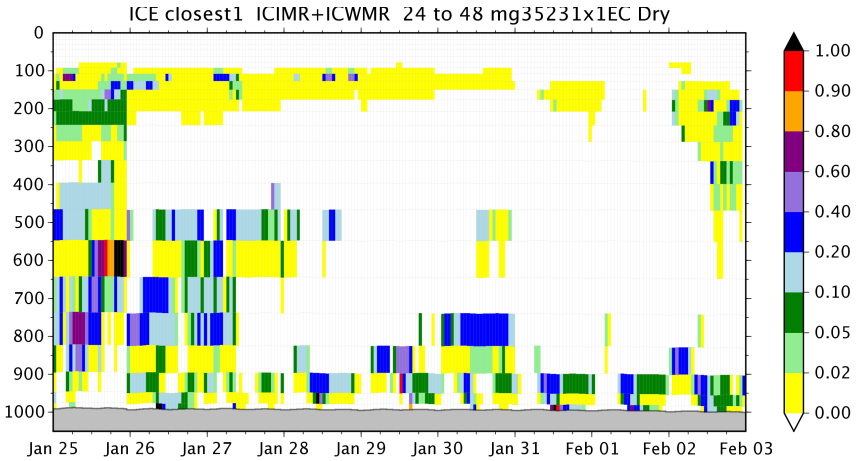
(a) microBase



(c) UWMG

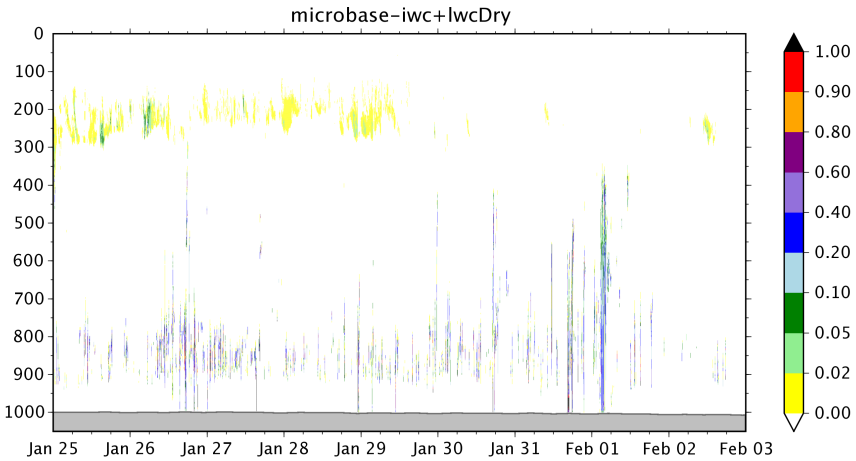


(b) MG

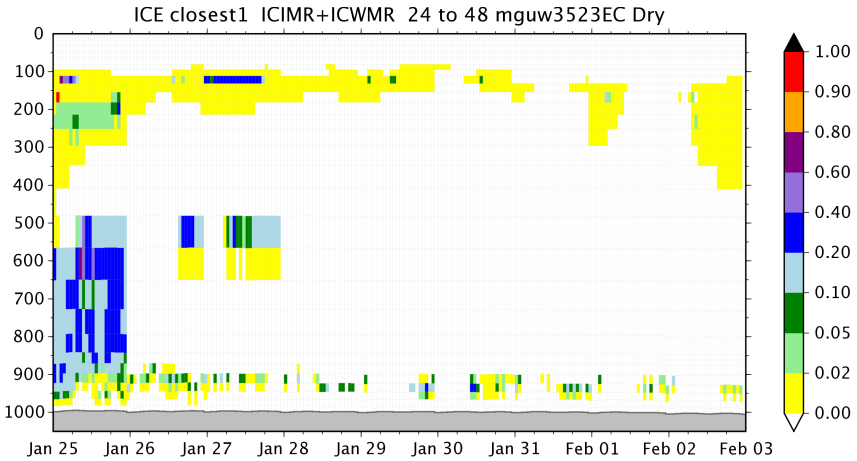


(d) 1x1 MG

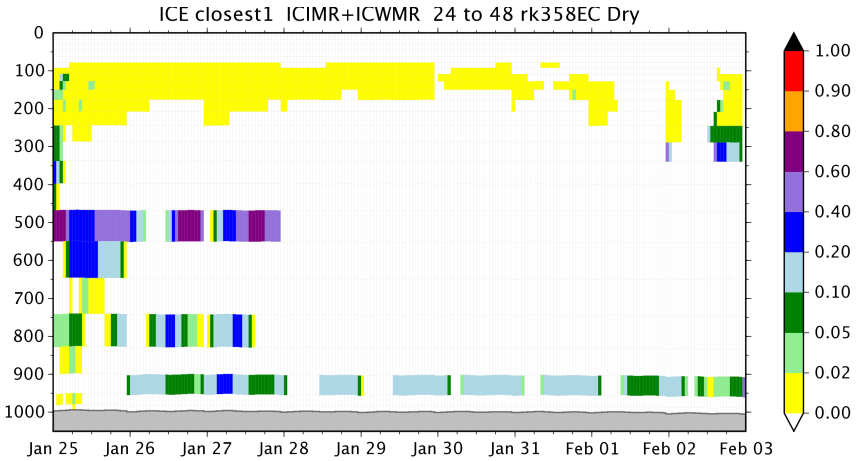
Cloud Ice and Liquid at Darwin Dry Period



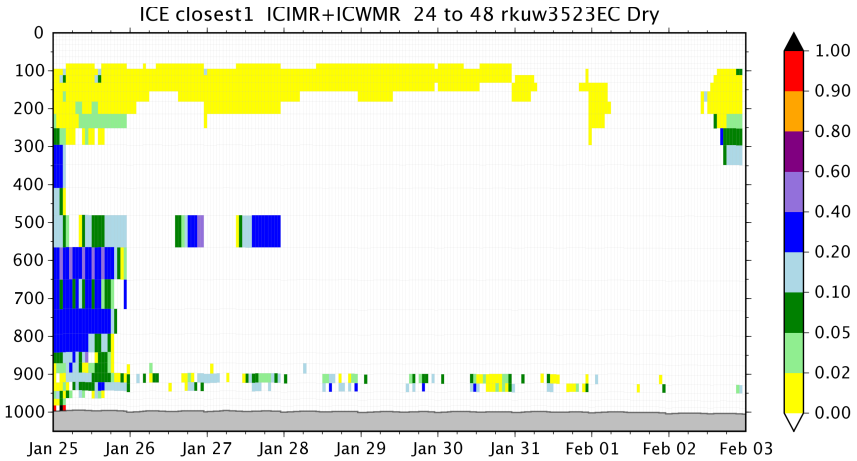
(a) microBase



(c) UWMG

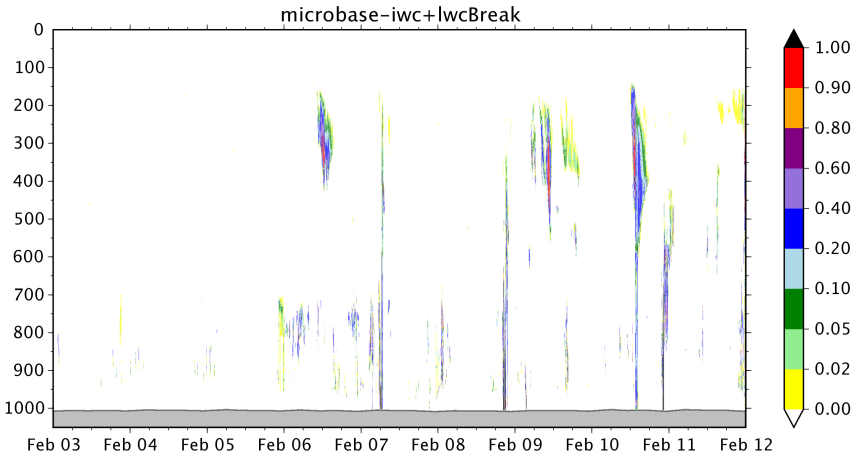


(b) RK

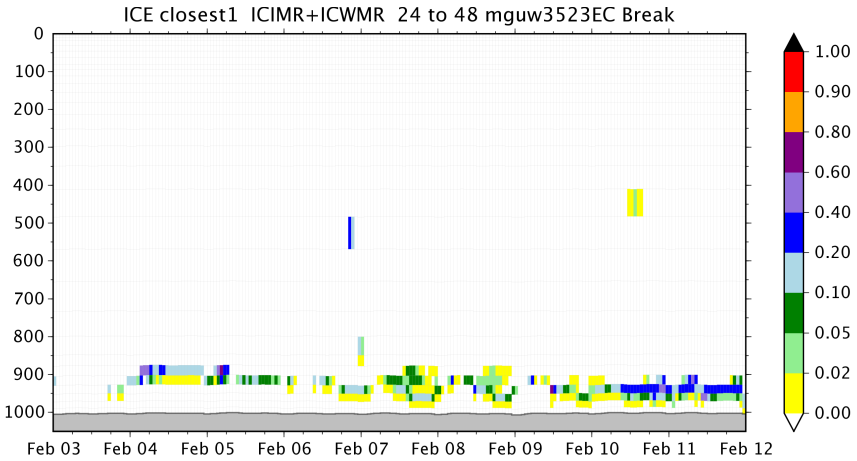


(d) UWRK

Cloud Ice and Liquid at Darwin Break Period



(a) microBase



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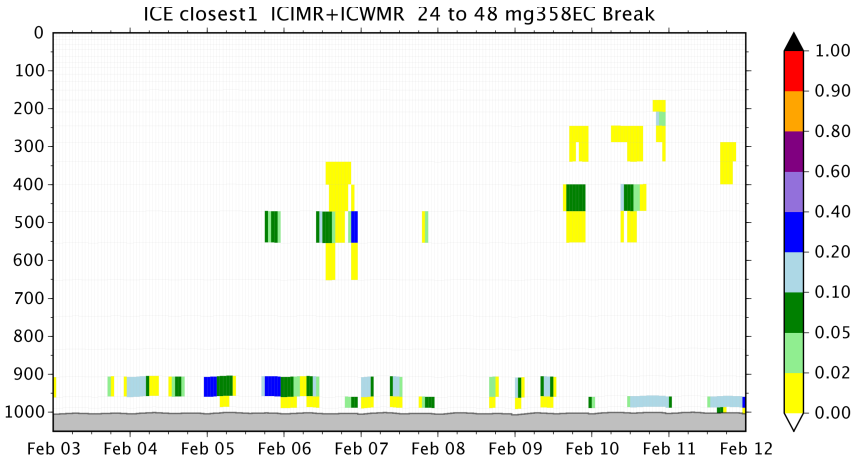
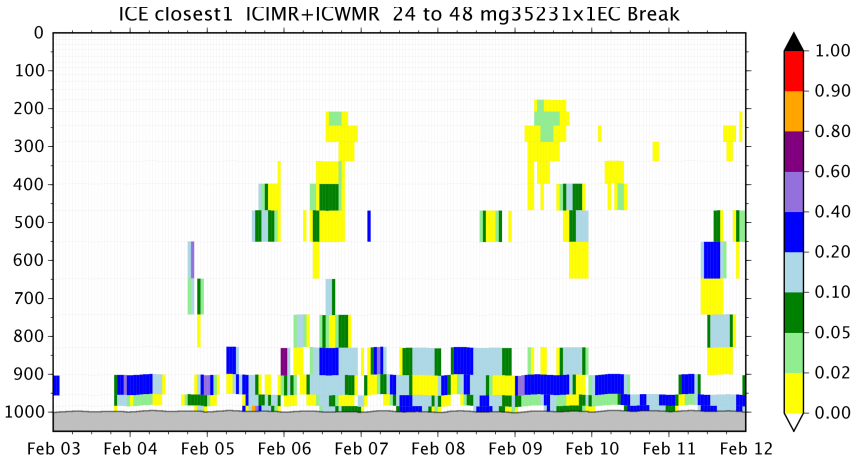
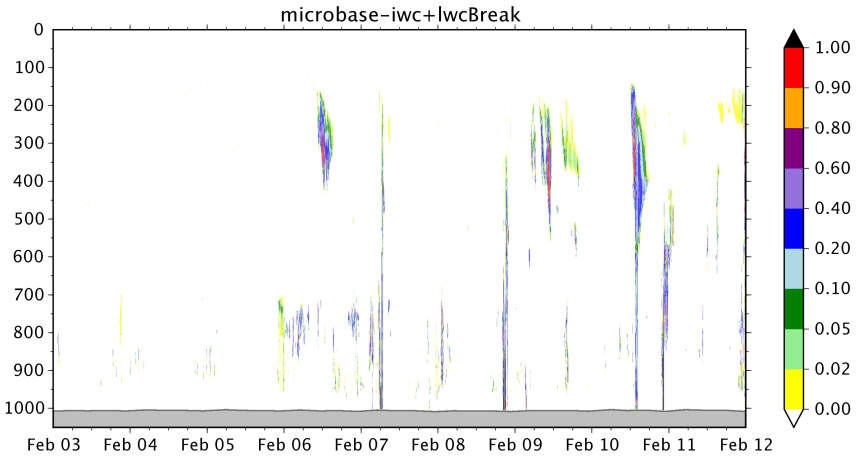


(b) MG

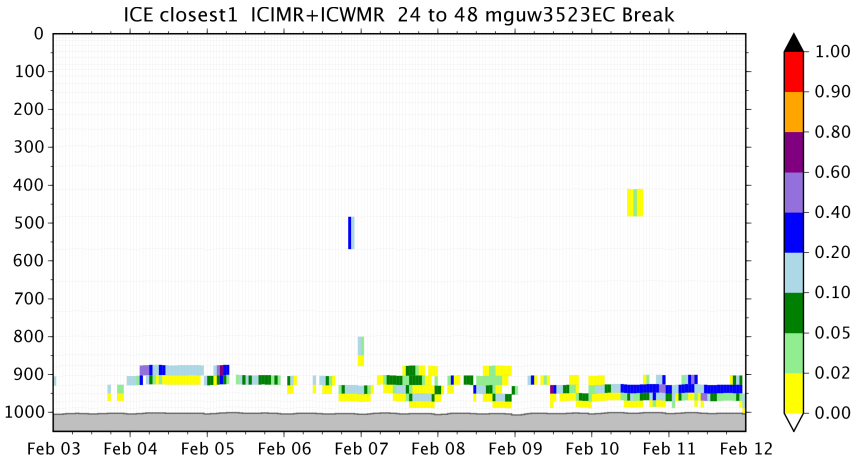


(d) 1x1 MG

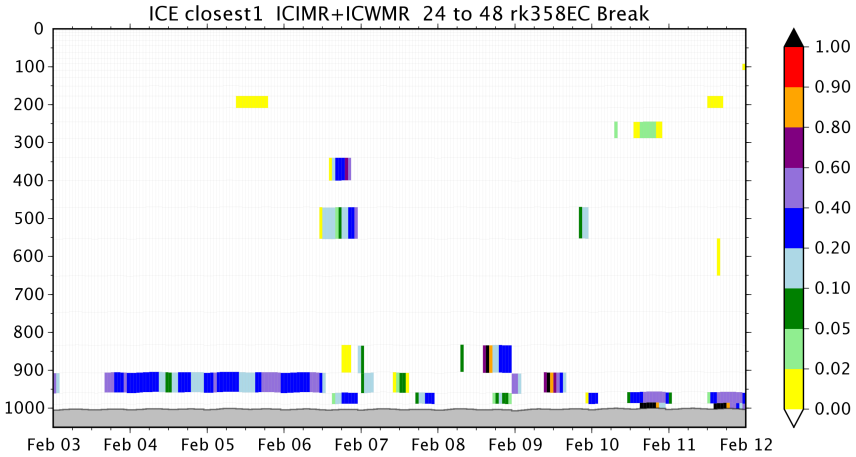
Cloud Ice and Liquid at Darwin Break Period



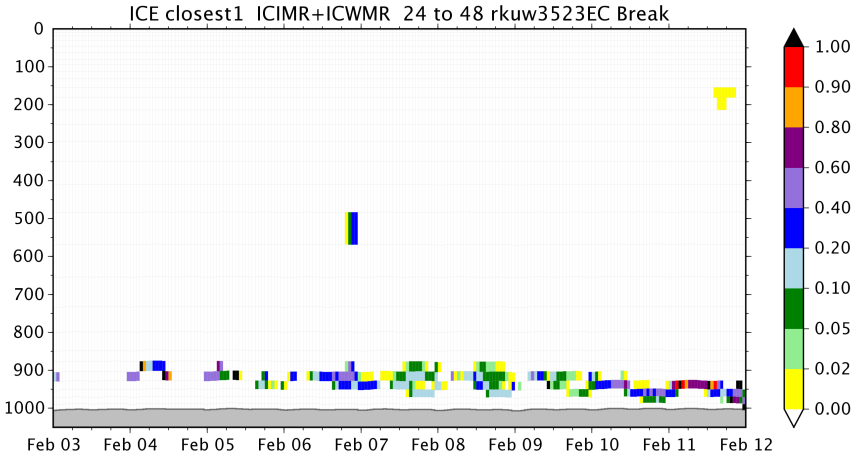
(a) microBase



(c) UWMG



(b) RK



(d) UWRK