File description and task list for 1995-96 LTER Met Files: o1=omit from level 1, ok= no changes to get to level 1, clow= apply clow subroutine to mV values, bad= normally would be included in level 1 but number is bogus, flag= reasonable number but needs a note attached concerning its collection:

General Changes for all programs loaded at beginning of 1995-96 season:

1. Wind speeds all shifted to 1 second sampling interval for better estimates of max's and min's (overall sampling remains at 30 seconds).
2. Employed new subroutine written for Colour Lake to get real instantaneous max and min wind speed. Over-winter data (i.e. 95 files) are still 30 second max and mins.
3. In order to get all dataloggers in the valleys going on the same interval, or at least the same mulitple, output arrays were stripped of stuff that could be calculated with a high degree of accuracy in the post-processing. Got rid of i) Bulk Richardson Number, ii) Water Vapor Density, iii) Max and Min temperature, iv) year. Base output interval is now 15 minutes.

4. Array I.D. meaning has changed:

First and Second Digit   Third Digit
01 = Hoare   Stations 1-14: program
02 = Fryxell   version # for season
03 = Bonney   Station 15: 1 = time and const
04 = Commonwealth   2 = surface flux
05 = Howard   3 = met and energy
06 = Taylor
07 = Vanda
08 = Brownsworth
09 = Explorer's Cove
10 = Canada Gl. (without Eddy Sensors)
11 = Vida
12 = Hoare Submerged
13 = Fryxell Submerged
14 = Bonney Submerged
15 = Canada Gl. (with Eddy Sensors)

Hardware Notes:
        1) Implemented service schedule to remove and calibrate certain sensors (e.g. pyranometers).
        2) Added 1 meter 207 probe to glacier stations
        3) Added multiplexers to glacier stations
        4) Moved HOD pyrgeometer to downward COH

General Notes for processing:
        1) Need to flag all unflagged max and min wind speeds up to the new 95/96 data generated with new 95/96 programs
        2) Max and Min temperature starting in the sumemr of 95/96 is calculated in post-processing of 15 minute numbers.
        3) Are dTemps standard?

Filename: boy95001.prn
Station: Lake Bonney met station
Date of Establishment: November 24, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: Jan 20/95 (20) @ 10:20 to Jul 29/95 (210) @ 21:00*
Sampling Frequency: every 30 secs.
Averaging and Output Interval: every 20 minutes
Program name: boy945-4

     1. array I.D.
         o1
     2. year
         ok
     3. day
         ok
     4. time
         ok
     5. mean P.A.R. (micromols/s/m2)
         ok
     6. mean 207 probe temp calculated from mV output using Steinhart-Hart equation and used in R.H. calculation
         (C)
         o1
     7. mean 207 probe temp. using Campbell command 11 (C)
         o1
     8. mean R.H. (%)
         ok
     9. mean solar flux coming down (W/m2)
         ok
     10. mean solar flux going up (W/m2)
         ok
     11. mean mV reading from thermistor 5 cm in soil
         clow
     12. mean water vapor density (g/m3)*100
         divide by 100 for g/m3
*   13. mean Bulk Richardson number (*1000)
         bad
     14. mean mV reading from surface soil thermistor
         clow
     15. mean mV reading from thermistor in 207 probe
         clow
     16. mean mV reading from thermistor 10 cm in soil
         clow
     17. sample of battery voltage
         o1
     18. mean liquid in Belfort precip gauge (mm)
         ok
     19. mean horizontal wind speed (m/s)
         ok
     20. resultant mean wind speed (m/s)
         o1
     21. resultant mean wind direction (degrees from north)
         ok

22. standard deviation of wind direction (degrees)

       ok

23. maximum wind speed (m/s)

       ok

24. minimum wind speed (m/s)

       ok

25. maximum mV from thermistor in 207 probe

       clow

26. minimum mV from thermistor in 207 probe.

       clow

notes: 1) no thermocouple wire for making dtemp measurements

       2) storage module error...loss of data between this file and next one.

Filename: boy95002.prn
Station: Lake Bonney met station
Date of Establishment: November 24, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: Nov 9/95 (313) @ 19:20 to Nov 22/95 (326) @ 16:20*
Sampling Frequency: every 30 secs.
Averaging and Output Interval: every 20 minutes
Program name: boy945-4

      1. array I.D.
         o1
      2. year
         ok
      3. day
         ok
      4. time
         ok
      5. mean P.A.R. (micromols/s/m2)
         ok
      6. mean 207 probe temp calculated from mV output using Steinhart-Hart equation and used in R.H. calculation
         (C)
         o1
      7. mean 207 probe temp. using Campbell command 11 (C)
         o1
      8. mean R.H. (%)
         ok
      9. mean solar flux coming down (W/m2)
         ok
      10. mean solar flux going up (W/m2)
         ok
      11. mean mV reading from thermistor 5 cm in soil
         clow
      12. mean water vapor density (g/m3)*100
         divide by 100 for g/m3
*   13. mean Bulk Richardson number (*1000)
         bad
      14. mean mV reading from surface soil thermistor
         clow
      15. mean mV reading from thermistor in 207 probe
         clow
      16. mean mV reading from thermistor 10 cm in soil
         clow
      17. sample of battery voltage
         o1
      18. mean liquid in Belfort precip gauge (mm)
         ok
      19. mean horizontal wind speed (m/s)
         ok
      20. resultant mean wind speed (m/s)
         o1
      21. resultant mean wind direction (degrees from north)
         ok

22. standard deviation of wind direction (degrees)
>ok
23. maximum wind speed (m/s)
>ok
24. minimum wind speed (m/s)
>ok
25. maximum mV from thermistor in 207 probe
>clow
26. minimum mV from thermistor in 207 probe.
>clow

notes: 1) no thermocouple wire for making dtemp measurements,
2) storage module error...loss of data between this file and previous one.

Filename: boy95601.dat
Station: Lake Bonney met station
Date of Establishment: November 24, 1993 by Peter Doran
Author of this report: Gayle Dana
File Period: Nov 22/95 (326) @ 16:45 to Jan 25/96 (25) @ 12:15
Sampling Frequency: wind: every 1 sec; precip: every one hour; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: boy956-1

        1. array I.D.
                o1
        2. day
                ok
        3. time
                ok
        4. mean air temp. @ 3 meters
                convert to mV, then Clow
        5. mean R.H. (%)
                ok
        6. mean solar flux coming down (W/m2)
                ok
        7. mean solar flux going up (W/m2)
                ok
        8. mean horizontal wind speed (m/s)
                ok
        9. resultant mean wind speed (m/s)
                o1
        10. resultant mean wind direction (degrees from north)
                ok
        11. standard deviation of wind direction (degrees)
                ok
        12. maximum wind speed (m/s)
                ok
        13. minimum wind speed (m/s)
                ok
        14. mean P.A.R. (micromols/s/m2)
                divide by 200, multiply by 331.13
        15. mean soil temperature @ 0 cm in soil (C)
                convert to mV, then Clow
        16. mean soil temperature @ 5 cm in soil (C)
                convert to mV, then clow
        17. mean soil temperature @ 10 cm in soil (C)
                convert to mV, then clow
        18. sample precipitation (mm)
                ok
        19. sample of battery voltage
                o1

Notes:
1) 2nd battery and diode wiring installed at end of file period.
2) Heads up for overwinter data: station powered down between 12:45 and 14:20 hours on 1/25/96 to install diodes
3) RH Campbell: 48%; RH Sling Pyschrometer: 54% on 1/25/96

Filename: brh95001.dat
Station: Lake Brownsworth met station
Date of Establishment: Dec 30, 1994 by Peter Doran and Ian Hawes
Author of this report: Peter Doran
File Period: Dec 30/94 (364) @ 22:00 to Jan 9/95 (9) @ 11:00
Sampling Frequency: every 30 secs.
Averaging and Output Interval: every hour
Program name: brh945-2

      1. array I.D.
           o1
      2. year
           ok
      3. day
           ok
      4. time
           ok
      5. mean mV reading from surface soil thermistor
           clow
*   6. mean mV reading from thermistor in 207 probe
           clow
*   7. mean R.H. (%)
           ok
      8. mean net radiometer output (W/m2)
           ok
      9. mean solar flux coming down (W/m2)
           ok
*   10. mean wind direction
           bad
      11. mean wind speed (m/s)
           ok
      12. mean UVA (w/m2)
           ok
      13. mean UVB (w/m2)
           ok
      14. mean battery volts
           o1
      15. mean soil temp. @ 5 cm (mV)
           clow
      16. mean soil temp. @ 10 cm (mV)
           clow
*   17. mean water vapor density (g/m3)*100
           bad
      18. max wind speed (m/s)
           ok
      19. min wind speed (m/s)
           ok
      20. max 207 temperature (mV)
           clow
      21. min 207 temperature (mV)
           clow

*notes: 1) 207 probe not wired properly, generating erroneous data in positions 6,7, and 17.
              2) Wind direction wrong for entire winter...@avg(dir)

Filename: brh95002.dat
Station: Lake Brownsworth met station
Date of Establishment: Dec 30, 1994 by Peter Doran and Ian Hawes
Author of this report: Peter Doran
File Period: Jan 9/95 (9) @ 12:00 to Aug 3/95 (215) @ 2:00
Sampling Frequency: every 30 secs.
Averaging and Output Interval: every hour
Program name: brh945-2

         1. array I.D.
            o1
         2. year
            ok
         3. day
            ok
         4. time
            ok
         5. mean mV reading from surface soil thermistor
            clow
         6. mean mV reading from thermistor in 207 probe
            clow
         7. mean R.H. (%)
            ok
         8. mean net radiometer output (W/m2)
            ok
         9. mean solar flux coming down (W/m2)
            ok
*   10. mean wind direction
            bad
        11. mean wind speed (m/s)
            ok
        12. mean UVA (w/m2)
            ok
        13. mean UVB (w/m2)
            ok
        14. mean battery volts
            o1
        15. mean soil temp. @ 5 cm (mV)
            clow
        16. mean soil temp. @ 10 cm (mV)
            clow
        17. mean water vapor density (g/m3)*100
            divide by 100 for g/m3
        18. max wind speed (m/s)
            ok
        19. min wind speed (m/s)
            ok
        20. max 207 temperature (mV)
            clow
        21. min 207 temperature (mV)
            clow

*notes: 1) Wind direction wrong for entire winter...@avg(dir)
            2) Battery voltage drops to mid 9's towards end of file beginning period of broken data collection.

Filename: brh95003.dat
Station: Lake Brownsworth met station
Date of Establishment: Dec 30, 1994 by Peter Doran and Ian Hawes
Author of this report: Peter Doran
File Period: Aug 3/95 (215) @ 3:00 to Aug 9/95 (221) @ 3:00
Sampling Frequency: every 30 secs.
Averaging and Output Interval: every hour
Program name: brh945-2

        1. array I.D.
            o1
        2. year
            ok
        3. day
            ok
        4. time
            ok
        5. mean mV reading from surface soil thermistor
            clow
        6. mean mV reading from thermistor in 207 probe
            clow
        7. mean R.H. (%)
            ok
        8. mean net radiometer output (W/m2)
            ok
        9. mean solar flux coming down (W/m2)
            ok
*   10. mean wind direction
            bad
        11. mean wind speed (m/s)
            ok
        12. mean UVA (w/m2)
            ok
        13. mean UVB (w/m2)
            ok
        14. mean battery volts
            o1
        15. mean soil temp. @ 5 cm (mV)
            clow
        16. mean soil temp. @ 10 cm (mV)
            clow
        17. mean water vapor density (g/m3)*100
            divide by 100 for g/m3
        18. max wind speed (m/s)
            ok
        19. min wind speed (m/s)
            ok
        20. max 207 temperature (mV)
            clow
        21. min 207 temperature (mV)
            clow

*notes: 1) Wind direction wrong for entire winter...@avg(dir)
                2) Battery voltage drops to high 8's. This machine was struggling to stay afloat.

Filename: brh95004.dat
Station: Lake Brownsworth met station
Date of Establishment: Dec 30, 1994 by Peter Doran and Ian Hawes
Author of this report: Peter Doran
File Period: Aug 9/95 (221) @ 4:00 to Aug 11/95 (223) @ 3:00
Sampling Frequency: every 30 secs.
Averaging and Output Interval: every hour
Program name: brh945-2

         1. array I.D.
             o1
         2. year
             ok
         3. day
             ok
         4. time
             ok
         5. mean mV reading from surface soil thermistor
             clow
         6. mean mV reading from thermistor in 207 probe
             clow
         7. mean R.H. (%)
             ok
         8. mean net radiometer output (W/m2)
             ok
         9. mean solar flux coming down (W/m2)
             ok
*   10. mean wind direction
             bad
         11. mean wind speed (m/s)
             ok
         12. mean UVA (w/m2)
             ok
         13. mean UVB (w/m2)
             ok
         14. mean battery volts
             o1
         15. mean soil temp. @ 5 cm (mV)
             clow
         16. mean soil temp. @ 10 cm (mV)
             clow
         17. mean water vapor density (g/m3)*100
             divide by 100 for g/m3
         18. max wind speed (m/s)
             ok
         19. min wind speed (m/s)
             ok
         20. max 207 temperature (mV)
             clow
         21. min 207 temperature (mV)
             clow

*notes: 1) Wind direction wrong for entire winter...@avg(dir)
2) Almost all data (except wind speed and dir) out of range (6999) by end of file (i.e. only speed).

Filename: brh95005.dat
Station: Lake Brownsworth met station
Date of Establishment: Dec 30, 1994 by Peter Doran and Ian Hawes
Author of this report: Peter Doran
File Period: Aug 11/95 (223) @ 4:00 to Aug 11/95 (223) @ 900
Sampling Frequency: every 30 secs.
Averaging and Output Interval: every hour
Program name: brh945-2

          1. array I.D.
                o1
          2. year
                ok
          3. day
                ok
          4. time
                ok
          5. mean mV reading from surface soil thermistor
                clow
          6. mean mV reading from thermistor in 207 probe
                clow
          7. mean R.H. (%)
                ok
          8. mean net radiometer output (W/m2)
                ok
          9. mean solar flux coming down (W/m2)
                ok
*   10. mean wind direction
                bad
          11. mean wind speed (m/s)
                ok
          12. mean UVA (w/m2)
                ok
          13. mean UVB (w/m2)
                ok
          14. mean battery volts
                o1
          15. mean soil temp. @ 5 cm (mV)
                clow
          16. mean soil temp. @ 10 cm (mV)
                clow
          17. mean water vapor density (g/m3)*100
                divide by 100 for g/m3
          18. max wind speed (m/s)
                ok
          19. min wind speed (m/s)
                ok
          20. max 207 temperature (mV)
                clow
          21. min 207 temperature (mV)
                clow

*notes: 1) Wind direction wrong for entire winter...@avg(dir)

2) Almost all data (except wind speed and dir) out of range (6999) (i.e. only speed is usable).

Filename: brh95006.dat
Station: Lake Brownsworth met station
Date of Establishment: Dec 30, 1994 by Peter Doran and Ian Hawes
Author of this report: Peter Doran
File Period: Aug 11/95 (223) @ 1000 to Aug 11/95 (223) @1100
Sampling Frequency: every 30 secs.
Averaging and Output Interval: every hour
Program name: brh945-2

            1. array I.D.
                    o1
            2. year
                    ok
*   3. day
                    ok
*   4. time
                    ok
            5. mean mV reading from surface soil thermistor
                    clow
            6. mean mV reading from thermistor in 207 probe
                    clow
            7. mean R.H. (%)
                    ok
            8. mean net radiometer output (W/m2)
                    ok
            9. mean solar flux coming down (W/m2)
                    ok
*   10. mean wind direction
                    bad
            11. mean wind speed (m/s)
                    ok
            12. mean UVA (w/m2)
                    ok
            13. mean UVB (w/m2)
                    ok
            14. mean battery volts
                    o1
            15. mean soil temp. @ 5 cm (mV)
                    clow
            16. mean soil temp. @ 10 cm (mV)
                    clow
            17. mean water vapor density (g/m3)*100
                    divide by 100 for g/m3
            18. max wind speed (m/s)
                    ok
            19. min wind speed (m/s)
                    ok
            20. max 207 temperature (mV)
                    clow
            21. min 207 temperature (mV)
                    clow

*notes: 1) Wind direction wrong for entire winter...@avg(dir)

          2) Almost all data (except wind speed and dir) out of range (6999) (i.e. only speed is usable).

          3) Total of 4 arrays in this file. Only first 2 have a proper time stamp.

Filename: brh95007.dat
Station: Lake Brownsworth met station
Date of Establishment: Dec 30, 1994 by Peter Doran and Ian Hawes
Author of this report: Peter Doran
File Period: ???????????????????
Sampling Frequency: every 30 secs.
Averaging and Output Interval: every hour
Program name: brh945-2

GARBAGE

Filename: brh95008.dat
Station: Lake Brownsworth met station
Date of Establishment: Dec 30, 1994 by Peter Doran and Ian Hawes
Author of this report: Peter Doran
File Period: ??????????????????
Sampling Frequency: every 30 secs.
Averaging and Output Interval: every hour
Program name: brh945-2

GARBAGE

Filename: brh95601.dat
Station: Lake Brownsworth met station
Date of Establishment: Dec 30, 1994 by Peter Doran and Ian Hawes
Author of this report: Gayle Dana
File Period: Nov 20/95 (324) @ 16:00 to Nov 24/95 (328) @ 13:00
Sampling Frequency: wind: every 2 secs.; others: every 30 secs.
Averaging and Output Interval: wind: every hour
Program name: brh945-2

        1. array I.D.
                o1
        2. year
                ok
        3. day
                ok
        4. time
                ok
        5. mean mV reading from surface soil thermistor
                clow
        6. mean mV reading from thermistor in 207 probe
                clow
        7. mean R.H. (%)
                ok
        8. mean net radiometer output (W/m2)
                ok
        9. mean solar flux coming down (W/m2)
                ok
        10. mean wind direction
                ok
        11. mean wind speed (m/s)
                ok
        12. mean UVA (w/m2)
                ok
        13. mean UVB (w/m2)
                ok
        14. mean battery volts
                o1
        15. mean soil temp. @ 5 cm (mV)
                clow
        16. mean soil temp. @ 10 cm (mV)
                clow
        17. mean water vapor density (g/m3)*100
                divide by 100 for g/3
        18. max wind speed (m/s)
                ok
        19. min wind speed (m/s)
                ok
        20. max 207 temperature (mV)
                clow
        21. min 207 temperature (mV)
                clow

Filename: brh95602.dat
Station: Lake Brownsworth met station
Date of Establishment: Dec 30, 1994 by Peter Doran and Ian Hawes
Author of this report: Gayle Dana
*File Period: Nov 24/95 (328) @ 16:45 to Jan 23/96 (23) @ 11:00
Sampling Frequency: every 2 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 min.
Program name: brh956-1

        1. array I.D.
                o1
        2. day
                ok
        3. time
                ok
        4. mean air temp. @ 3 meters calculated using Campbell instruction P11 (C)
                convert to mV, then Clow
        5. mean R.H. @ 3 m (%)
                ok
        6. mean solar flux coming down (W/m2)
                ok
        7. mean horizontal wind speed (m/s)
                ok
        8. resultant mean wind speed (m/s)
                o1
        9. resultant mean wind direction (degrees from north)
                ok
        10. standard deviation of wind direction (degrees)
                ok
        11. maximum wind speed (m/s)
                ok
        12. minimum wind speed (m/s)
                ok
        13. mean soil temperature @ 0 cm in soil (C)
                convert to mV, then clow
        14. mean soil temperature @ 5 cm in soil (C)
                convert to mV, then clow
        15. mean soil temperature @ 10 cm in soil (C)
                convert to mV, then clow
        16. sample of battery voltage
                o1
        17. mean net radiation (W/m2)
                ok
        18. mean UVA (W/m2)
                ok
        19. mean UVB (W/m2)
                ok

Notes:
1) Gap in data between 13:00 and 16:45 on Nov 24/95.
2) Diode wiring installed at end of file period
3) There is only one battery (new) at this station; diode wiring can accomodate 2nd battery.

Filename: coh95001.prn
Station: Commonwealth Glacier Station
Date of Establishment: Nov 22, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: Jan 23/95 (23) @ 14:20 to Aug 17/95 (230) @ 120
Sampling Frequency: every 30 secs.
Averaging and Output Interval: every 20 minutes
Program name: coh945-4

1. array I.D.
        o1
2. year
        ok
3. date
        ok
4. time
        ok
5. mean I.R. (W/m2)
        ok
6. mean 207 probe temp calculated from mV output using   Steinhart-Hart equation and used in R.H.
        calculation (C)
        o1
7. mean 207 probe temp. using Campbell command 11 (C)
        o1
8. mean R.H. (%)
        o1
9. mean solar flux coming down (W/m2)
        ok
10. mean solar flux coming up (W/m2)
        ok
11. mean water vapor density (g/m3)*100
        divide by 100 for g/m3
12. mean mV reading from thermistor in 207 probe
        clow
13. mean mV reading from shallow ice thermistor
        clow
14. mean mV reading from deep ice thermistor
        clow
15. sample of battery voltage
        o1
16. mean horizontal wind speed (m/s)
        o1
17. resultant mean wind speed (m/s)
        ok
18. resultant mean wind direction (degrees from north)
        ok
19. standard deviation of wind direction (degrees)
        ok
20. maximum wind speed (m/s)
        ok
21. minimum wind speed (m/s)
        ok

22. maximum mV from thermistor in 207 probe
   clow
23. minimum mV from thermistor in 207 probe
   clow
*   24. sample of thermal infrared (C)
   bad

*notes: 1) Thermal infrared sensor disconnected. Disregard 24.

Filename: coh95002.prn
Station: Commonwealth Glacier Station
Date of Establishment: Nov 22, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: Aug 17/95 (230) @ 140 to Nov 27/95 (331) @ 1020
Sampling Frequency: every 30 secs.
Averaging and Output Interval: every 20 minutes
Program name: coh945-4

1. array I.D.
        o1
2. year
        ok
3. date
        ok
4. time
        ok
5. mean I.R. (W/m2)
        ok
6. mean 207 probe temp calculated from mV output using   Steinhart-Hart equation and used in R.H.
        calculation (C)
        o1
7. mean 207 probe temp. using Campbell command 11 (C)
        o1
8. mean R.H. (%)
        o1
9. mean solar flux coming down (W/m2)
        ok
10. mean solar flux coming up (W/m2)
        ok
11. mean water vapor density (g/m3)*100
        divide by 100 for g/m3
12. mean mV reading from thermistor in 207 probe
        clow
13. mean mV reading from shallow ice thermistor
        clow
14. mean mV reading from deep ice thermistor
        clow
15. sample of battery voltage
        o1
16. mean horizontal wind speed (m/s)
        o1
17. resultant mean wind speed (m/s)
        ok
18. resultant mean wind direction (degrees from north)
        ok
19. standard deviation of wind direction (degrees)
        ok
20. maximum wind speed (m/s)
        ok
21. minimum wind speed (m/s)
        ok

22. maximum mV from thermistor in 207 probe
        clow
23. minimum mV from thermistor in 207 probe
        clow
*   24. sample of thermal infrared (C)
        bad

*notes: 1) Thermal infrared sensor disconnected. Disregard 24.

Filename: caa95601.dat
Station: Canada Glacier met station
Date of Establishment: Nov 20, 1995 by Karen Lewis
Author of this report: Gayle Dana
File Period: Nov 20/95 (324) @ 16:30 to Nov 22(326) @ 14:30
Sampling Frequency: every 2 secs.
Averaging and Output Interval: every 15 minutes
Program name: caa956-1

*   1. array I.D.
                    o1
           2. day
                    ok
           3. time
                    ok
           4. mean air temp. @ 2 meters (C)
                    convert to mV, then clow
           5. mean rh @ 2 meters (%)
                    ok
*   6. mean solar flux coming down (W/m2)
                    bad
*   7. mean solar flux going up (W/m2)
                    bad
           8. mean horizontal wind speed (m/s)
                    ok
           9. resultant mean wind speed (m/s)
                    o1
*   10. resultant mean wind direction (degrees from north)
                    correct wind directions by 180°
           11. standard deviation of wind direction (degrees)
                    ok
           12. maximum wind speed (m/s)
                    ok
           13. minimum wind speed (m/s)
                    ok
           14. mean air temp. @ 1 meter (C)
                    convert to mV, then clow
           15. mean rh @ 1 m (%)
                    ok
           16. mean thermal infrared-skin temp. (C)
                    ok
           17. mean barometric pressure (mbar)
                    ok
           18. mean net radiation (W/m2)
                    ok
           19. mean vapor pressure @ 2 m (kPa)
                    ok
           20. mean vapor pressure @ 1 m (kPa)
                    ok
           21. sample battery voltage
                    o1

*Notes
1. Process only arrays with ID # 153
2. Solar up and down sensors not installed
3. Wind monitor was oriented 180° from where it should have been.

Filename: caa95602.dat
Station: Canada Glacier met station
Date of Establishment: Nov 20, 1995 by Karen Lewis
Author of this report: Gayle Dana
*File Period: Nov 22/95 (326) @ 14:30 to Nov 25(329) @ 18:45
Sampling Frequency: every 2 secs.
Averaging and Output Interval: every 15 minutes
Program name: caa956-1

*   1. array I.D.
                   o1
           2. day
                   ok
           3. time
                   ok
           4. mean air temp. @ 2 meters (C)
                   convert to mV, then clow
           5. mean rh @ 2 meters (%)
                   ok
*   6. mean solar flux coming down (W/m2)
                   bad
*   7. mean solar flux going up (W/m2)
                   bad
           8. mean horizontal wind speed (m/s)
                   ok
           9. resultant mean wind speed (m/s)
                   o1
           10. resultant mean wind direction (degrees from north)
                   ok
           11. standard deviation of wind direction (degrees)
                   ok
           12. maximum wind speed (m/s)
                   ok
           13. minimum wind speed (m/s)
                   ok
           14. mean air temp. @ 1 meter (C)
                   convert to mV, then clow
           15. mean rh @ 1 m (%)
                   ok
           16. mean thermal infrared-skin temp.(C)
                   ok
           17. mean barometric pressure (mbar)
                   ok
           18. mean net radiation (W/m2)
                   ok
           19. mean vapor pressure @ 2 m (kPa)
                   ok
           20. mean vapor pressure @ 1 m (kPa)
                   ok
           21. sample battery voltage
                   o1

*Notes
1. Process only arrays with ID # 153
2. Drop data on day 326 @ 14:30; duplicates last data line in caa95601.dat. Start processing data on day 326 @ 14:45.
3. Solar up and down sensors not installed

Filename: caa95603.dat
Station: Canada Glacier met station
Date of Establishment: Nov 20, 1995 by Karen Lewis
Author of this report: Gayle Dana
File Period: Nov 25/95 (329) @ 19:00 to Nov 30(334) @ 18:15
Sampling Frequency: every 2 secs.
Averaging and Output Interval: every 15 minutes
Program name: caa956-1

*   1. array I.D.
                    o1
           2. day
                    ok
           3. time
                    ok
           4. mean air temp. @ 2 meters (C)
                    convert to mV, then clow
           5. mean rh @ 2 meters (%)
                    ok
           6. mean solar flux coming down (W/m2)
                    ok
           7. mean solar flux going up (W/m2)
                    ok
           8. mean horizontal wind speed (m/s)
                    ok
           9. resultant mean wind speed (m/s)
                    o1
           10. resultant mean wind direction (degrees from north)
                    ok
           11. standard deviation of wind direction (degrees)
                    ok
           12. maximum wind speed (m/s)
                    ok
           13. minimum wind speed (m/s)
                    ok
           14. mean air temp. @ 1 meter (C)
                    convert to mV, then clow
           15. mean rh @ 1 m (%)
                    ok
           16. mean thermal infrared-skin temp. (C)
                    ok
           17. mean barometric pressure (mbar)
                    ok
           18. mean net radiation (W/m2)
                    ok
           19. mean vapor pressure @ 2 m (kPa)
                    ok
           20. mean vapor pressure @ 1 m (kPa)
                    ok
           21. sample battery voltage
                    o1

*Notes:. Process only arrays with ID # 153

Filename: caa95604.dat
Station: Canada Glacier met station
Date of Establishment: Nov 20, 1995 by Karen Lewis
Author of this report: Gayle Dana
*File Period: Nov 30/95 (334) @ 18:15 to Dec 4/95(338) @ 16:30
Sampling Frequency: every 2 secs.
Averaging and Output Interval: every 15 minutes
Program name: caa956-1

*   1. array I.D.
                    o1
           2. day
                    ok
           3. time
                    ok
           4. mean air temp. @ 2 meters (C)
                    convert to mV, then clow
           5. mean rh @ 2 meters (%)
                    ok
           6. mean solar flux coming down (W/m2)
                    ok
           7. mean solar flux going up (W/m2)
                    ok
           8. mean horizontal wind speed (m/s)
                    ok
           9. resultant mean wind speed (m/s)
                    o1
           10. resultant mean wind direction (degrees from north)
                    ok
           11. standard deviation of wind direction (degrees)
                    ok
           12. maximum wind speed (m/s)
                    ok
           13. minimum wind speed (m/s)
                    ok
           14. mean air temp. @ 1 meter (C)
                    convert to mV, then clow
           15. mean rh @ 1 m (%)
                    ok
           16. mean thermal infrared-skin temp. (C)
                    ok
           17. mean barometric pressure (mbar)
                    ok
           18. mean net radiation (W/m2)
                    ok
           19. mean vapor pressure @ 2 m (kPa)
                    ok
           20. mean vapor pressure @ 1 m (kPa)
                    ok
           21. sample battery voltage
                    o1

*Notes
1. Process only arrays with ID # 153
2. Drop data on day 334 @ 18:15; duplicates last data line in caa95603.dat. Start processing data on day 334 @ 18:30.

Filename: caa95605.dat
Station: Canada Glacier met station
Date of Establishment: Nov 20, 1995 by Karen Lewis
Author of this report: Gayle Dana
File Period: Dec 4/95 (338) @ 16:45 to Dec 12/95(346) @ 19:00
Sampling Frequency: every 2 secs.
Averaging and Output Interval: every 15 minutes
Program name: caa956-1

*   1. array I.D.
                    o1
           2. day
                    ok
           3. time
                    ok
           4. mean air temp. @ 2 meters (C)
                    convert to mV, then clow
           5. mean rh @ 2 meters (%)
                    ok
           6. mean solar flux coming down (W/m2)
                    ok
           7. mean solar flux going up (W/m2)
                    ok
           8. mean horizontal wind speed (m/s)
                    ok
           9. resultant mean wind speed (m/s)
                    o1
           10. resultant mean wind direction (degrees from north)
                    ok
           11. standard deviation of wind direction (degrees)
                    ok
           12. maximum wind speed (m/s)
                    ok
           13. minimum wind speed (m/s)
                    ok
           14. mean air temp. @ 1 meter (C)
                    convert to mV, then clow
           15. mean rh @ 1 m (%)
                    ok
           16. mean thermal infrared-skin temp. (C)
                    ok
           17. mean barometric pressure (mbar)
                    ok
           18. mean net radiation (W/m2)
                    ok
           19. mean vapor pressure @ 2 m (kPa)
                    ok
           20. mean vapor pressure @ 1 m (kPa)
                    ok
           21. sample battery voltage

o1

*Notes:
1. Process only arrays with ID # 153
2. Data collection changed to high resolution mode, day 342,@ 14:30

Filename: caa95606.dat
Station: Canada Glacier met station
Date of Establishment: Nov 20, 1995 by Karen Lewis
Author of this report: Gayle Dana
File Period: Dec 12/95 (346) @ 19:15 to Dec 13/95(347) @ 19:45
Sampling Frequency: every 2 secs.
Averaging and Output Interval: every 15 minutes
Program name: caa956-1

*   1. array I.D.
                  o1
           2. day
                  ok
           3. time
                  ok
           4. mean air temp. @ 2 meters (C)
                  convert to mV, then clow
           5. mean rh @ 2 meters (%)
                  ok
           6. mean solar flux coming down (W/m2)
                  ok
           7. mean solar flux going up (W/m2)
                  ok
           8. mean horizontal wind speed (m/s)
                  ok
           9. resultant mean wind speed (m/s)
                  o1
           10. resultant mean wind direction (degrees from north)
                  ok
           11. standard deviation of wind direction (degrees)
                  ok
           12. maximum wind speed (m/s)
                  ok
           13. minimum wind speed (m/s)
                  ok
           14. mean air temp. @ 1 meter (C)
                  convert to mV, then clow
           15. mean rh @ 1 m (%)
                  ok
           16. mean thermal infrared-skin temp. (C)
                  ok
           17. mean barometric pressure (mbar)
                  ok
           18. mean net radiation (W/m2)
                  ok
           19. mean vapor pressure @ 2 m (kPa)
                  ok
           20. mean vapor pressure @ 1 m (kPa)
                  ok
           21. sample battery voltage
                  o1

*Notes
1. Process only arrays with ID # 153

Filename: caa95607.dat
Station: Canada Glacier met station
Date of Establishment: Nov 20, 1995 by Karen Lewis
Author of this report: Gayle Dana
File Period: Dec 13/95 (347) @ 20:00 to Dec 16/95(350) @ 20:00
Sampling Frequency: every 2 secs.
Averaging and Output Interval: every 15 minutes
Program name: caa956-1

*   1. array I.D.
                    o1
           2. day
                    ok
           3. time
                    ok
           4. mean air temp. @ 2 meters (C)
                    convert to mV, then clow
           5. mean rh @ 2 meters (%)
                    ok
           6. mean solar flux coming down (W/m2)
                    ok
           7. mean solar flux going up (W/m2)
                    ok
           8. mean horizontal wind speed (m/s)
                    ok
           9. resultant mean wind speed (m/s)
                    o1
           10. resultant mean wind direction (degrees from north)
                    ok
           11. standard deviation of wind direction (degrees)
                    ok
           12. maximum wind speed (m/s)
                    ok
           13. minimum wind speed (m/s)
                    ok
           14. mean air temp. @ 1 meter (C)
                    convert to mV, then clow
           15. mean rh @ 1 m (%)
                    ok
           16. mean thermal infrared-skin temp. (C)
                    ok
           17. mean barometric pressure (mbar)
                    ok
           18. mean net radiation (W/m2)
                    ok
           19. mean vapor pressure @ 2 m (kPa)
                    ok
           20. mean vapor pressure @ 1 m (kPa)
                    ok
           21. sample battery voltage
                    o1

*   1. array I.D.
            o1
      2. day
            ok
      3. time
            ok
      4. mean air temp. @ 2 meters (C)
            convert to mV, then clow
      5. mean rh @ 2 meters (%)
            ok
      6. mean solar flux coming down (W/m2)
            ok
      7. mean solar flux going up (W/m2)
            ok
      8. mean horizontal wind speed (m/s)
            ok
      9. resultant mean wind speed (m/s)
            o1
      10. resultant mean wind direction (degrees from north)
            ok
      11. standard deviation of wind direction (degrees)
            ok
      12. maximum wind speed (m/s)
            ok
      13. minimum wind speed (m/s)
            ok
      14. mean air temp. @ 1 meter (C)
            convert to mV, then clow
      15. mean rh @ 1 m (%)
            ok
      16. mean thermal infrared-skin temp. (C)
            ok
      17. mean barometric pressure (mbar)
            ok
      18. mean net radiation (W/m2)
            ok
      19. mean vapor pressure @ 2 m (kPa)
            ok
      20. mean vapor pressure @ 1 m (kPa)

ok
21. sample battery voltage

o1

*Notes
1. Process only arrays with ID # 153
Filename: caa95609.dat
Station: Canada Glacier met station
Date of Establishment: Nov 20, 1995 by Karen Lewis
Author of this report: Gayle Dana
File Period: Dec 26/95 (360) @ 14:15 to Jan 10/95(10) @ 21:00
Sampling Frequency: every 2 secs.
Averaging and Output Interval: every 15 minutes
Program name: caa956-1

*   1. array I.D.

o1
2. day

ok
3. time

ok
4. mean air temp. @ 2 meters (C)

convert to mV, then clow
5. mean rh @ 2 meters (%)

ok
6. mean solar flux coming down (W/m2)

ok
7. mean solar flux going up (W/m2)

ok
8. mean horizontal wind speed (m/s)

ok
9. resultant mean wind speed (m/s)

o1
10. resultant mean wind direction (degrees from north)

ok
11. standard deviation of wind direction (degrees)

ok
12. maximum wind speed (m/s)

ok
13. minimum wind speed (m/s)

ok
14. mean air temp. @ 1 meter (C)

convert to mV, then clow
15. mean rh @ 1 m (%)

ok
16. mean thermal infrared-skin temp (C)

ok
17. mean barometric pressure (mbar)

ok
18. mean net radiation (W/m2)

ok

19. mean vapor pressure @ 2 m (kPa)
    ok
20. mean vapor pressure @ 1 m (kPa)
    ok
21. sample battery voltage
    o1

*Notes
1. Process only arrays with ID # 153

Filename: caa95610.dat
Station: Canada Glacier met station
Date of Establishment: Nov 20, 1995 by Karen Lewis
Author of this report: Gayle Dana
File Period: Day 190 @ 24:00 to Day 190 @ 24:00 (Jan 10/96)
Sampling Frequency: every 2 secs.
Averaging and Output Interval: every 15 minutes
Program name: caa956-1

Garbage; do not process.

Data logger was powered down 2 times between 21:05 and 21:10. This file was the result of this.

Filename: caa95611.dat
Station: Canada Glacier met station
Date of Establishment: Nov 20, 1995 by Karen Lewis
Author of this report: Gayle Dana
*File Period: Day 190 @ 24:00 to Day 25 @ 16:15
                                    [Jan 10/96 (10) @ 21:15 to Jan 25/96 (25) @ 16:15]
Sampling Frequency: every 2 sec.
Averaging and Output Interval: every 15 minutes
Program name: caa956-1

*   1. array I.D.
                    o1
*   2. day
                    flag
*   3. time
                    flag
           4. mean air temp. @ 2 meters (C)
                    convert to mV, then clow
           5. mean rh @ 2 meters (%)
                    ok
           6. mean solar flux coming down (W/m2)
                    ok
           7. mean solar flux going up (W/m2)
                    ok
           8. mean horizontal wind speed (m/s)
                    ok
           9. resultant mean wind speed (m/s)
                    o1
           10. resultant mean wind direction (degrees from north)
                    ok
           11. standard deviation of wind direction (degrees)
                    ok
           12. maximum wind speed (m/s)
                    ok
           13. minimum wind speed (m/s)
                    ok
           14. mean air temp. @ 1 meter (C)
                    convert to mV, then clow
           15. mean rh @ 1 m (%)
                    ok
*   16. mean thermal infrare-skin temp (C)
                    bad
           17. mean barometric pressure (mbar)
                    ok
           18. mean net radiation (W/m2)
                    ok
           19. mean vapor pressure @ 2 m (kPa)
                    ok
           20. mean vapor pressure @ 1 m (kPa)
                    ok
           21. sample battery voltage

o1

*Notes
1. Process only arrays with ID # 153
2. Day and time incorrect for first part of data file (~half a day of data). Day and time in brackets is correct timestamp as inferred from when CR10 clock was reset. Day and time reset on Jan 11/96 (11) @ 10:15. Change day and time as follows:
 -day 190 @ 24:00 to day 191 @ 1245 in file corresponds to correct day 10 @ 21:15 to day 11 @ 10:00.
 -line after day 191 @ 12:45 in file reads day 111 @ 1015 and should be changed to day 11 @ 1015.
-day and time for remainder of data file is ok:
        day 11 @ 10:30 to day 25 @ 1615.
3. Thermal infrared (IRT) sensor removed from station to be used elsewhere.
4. Battery diode wiring installed (two batteries present).

Heads up for 1996 Canada Met station overwinter data:

1. Station powered down on day 25 between 16:34 and 17:21 to install diodes.

2. Between day 25 @ 17:30 to day 26 @ 17:15, 207 probe @ 1 m was moved up to 205.5 cm to compare with 207 probe at 2 m.   It was returned to 1m on day 26 @ 17:15.

3. During power-down mentioned in 1) above removed both uplooking (SN 20568) and downlooking (SN PY20561) licor 200X pyranometers to send in for calibration. Installed up looking Licor 200X pyranometer (SN 20567).

4. On day 26 @ ~1630, installed downlooking Licor 200X pyranometer (SN 20222).

5. Krypton hygrometer power source and wiring was removed to ship back with sensor for calibration.

Filename: coh95601.dat
Station: Commonwealth Glacier Station
Date of Establishment: Nov 22, 1993 by Peter Doran
Author of this report: Gayle Dana
File Period: Nov 27/95 @ 12:15 (331) to Dec 13/95 (347) @ 14:00
Sampling Frequency: every 1 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: coh956-1

    1. array I.D.
       o1
    2. day
       ok
    3. time
       ok
    4. mean air temp. @ 3 meters
       convert to mV, then Clow
    5. mean R.H. @ 3 meters (%)
       ok
    6. mean solar flux coming down (W/m2)
       divide by 100; multiply by 115.47
    7. mean solar flux going up (W/m2)
       divide by 100; multiply by 120.19
    8. mean horizontal wind speed (m/s)
       ok
    9. resultant mean wind speed (m/s)
       o1
    10. resultant mean wind direction (degrees from north)
       ok
    11. standard deviation of wind direction (degrees)
       ok
    12. maximum wind speed (m/s)
       ok
    13. minimum wind speed (m/s)
       ok
*   14. mean incoming IR pyrgeometer output (pins A-B) (W/m2)
       bad
*   15. mean incoming IR hemisphere temp. (pins A-C) (mv)
       bad
*   16. mean incoming IR thermopile output (pins F-G)(W/m2)
       bad
*   17. mean incoming IR case temp. (pins E-D)(mv)
       bad
    18. mean thermal infrared-skin temperature(C)
       ok
*   19. mean ice temp. @ 20 cm (C)
       flag; convert to mv, then clow
*   20. mean ice temp. @ 1 m (C)
       flag; convert to mv, then clow
*   21. mean dTemp 1-3 meters (from t.c. wire) (C)
       bad
*   22. mean outgoing IR(pyrgeo output) (W/m2)

        bad
23. sample of battery voltage
        o1

*Notes:
1.   Up-looking Pyrgeometer not wired; ignore # 14-17
2.   Exact depth position of ice thermistors unknown (#18 & 19).
3.   Thermocouple not wired; ignore #21
4.   Down-looking pyrgeometer not wired; ignore # 22

Filename: coh95602.dat
Station: Commonwealth Glacier Station
Date of Establishment: Nov 22, 1993 by Peter Doran
Author of this report: Gayle Dana
*File Period: Dec 13/95 (347) @ 16:30 to Dec 19/95 @ 13:00
Sampling Frequency: every 1 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: coh956-1

       1. array I.D.
           o1
       2. day
           ok
       3. time
           ok
       4. mean air temp. @ 3 meters
           convert to mV, then Clow
       5. mean R.H. @ 3 meters (%)
           ok
       6. mean solar flux coming down (W/m2)
           divide by 100; multiply by 115.47
       7. mean solar flux going up (W/m2)
           divide by 100; multiply by 120.19
       8. mean horizontal wind speed (m/s)
           ok
       9. resultant mean wind speed (m/s)
           o1
       10. resultant mean wind direction (degrees from north)
           ok
       11. standard deviation of wind direction (degrees)
           ok
       12. maximum wind speed (m/s)
           ok
       13. minimum wind speed (m/s)
           ok
*   14. mean incoming IR pyrgeometer output (pins A-B) (W/m2)
           bad
*   15. mean incoming IR hemisphere temp. (pins A-C) (mv)
           bad
*   16. mean incoming IR thermopile output (pins F-G)(W/m2)
           bad
*   17. mean incoming IR case temp. (pins E-D)(mv)
           bad
       18. mean thermal infrared-skin temperature(C)
           ok
*   19. mean ice temp. @ 20 cm (C)
           flag; convert to mv, then clow
*   20. mean ice temp. @ 1 m (C)
           flag; convert to mv, then clow
*   21. mean dTemp 1-3 meters (from t.c. wire) (C)
           bad
*   22. mean outgoing infrared (pyrgeo output) (W/m2)

bad
23. sample of battery voltage
o1

*Notes:
1.   Gap in data between coh95601.dat and coh95602.dat at 14:00 and 16:30 on Dec 13/95 (347)
2.   Up-looking Pyrgeometer not wired; ignore # 14-17
3.   Exact depth position of ice thermistors unknown (#18 & 19).
4.   Thermocouple not wired; ignore #21
5.   Down-looking pyrgeometer not wired; ignore # 22

Filename: coh95603.dat
Station: Commonwealth Glacier Station
Date of Establishment: Nov 22, 1993 by Peter Doran
Author of this report: Gayle Dana
*File Period: Dec 19/95 @ 13:30 (353) to Dec 19/95 (353) @ 14:30
Sampling Frequency: every 1 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: coh956-2

        1. array I.D.
            o1
        2. day
            ok
        3. time
            ok
        4. mean air temp. @ 3 meters
            convert to mV, then Clow
        5. mean R.H. @ 3 meters (%)
            ok
        6. mean solar flux coming down (W/m2)
            divide by 100; multiply by 115.47
        7. mean solar flux going up (W/m2)
            divide by 100; multiply by 120.19
        8. mean horizontal wind speed (m/s)
            ok
        9. resultant mean wind speed (m/s)
            o1
        10. resultant mean wind direction (degrees from north)
            ok
        11. standard deviation of wind direction (degrees)
            ok
        12. maximum wind speed (m/s)
            ok
        13. minimum wind speed (m/s)
            ok
*   14. mean incoming IR pyrgeometer output (pins A-B) (W/m2)
            bad
*   15. mean incoming IR hemisphere temp. (pins A-C) (mv)
            bad
*   16. mean incoming IR thermopile output (pins F-G)(W/m2)
            bad
*   17. mean incoming IR case temp. (pins E-D)(mv)
            bad
        18. mean thermal infrared-skin temperature(C)
            ok
*   19. mean ice temp. @ 20 cm (C)
            flag; convert to mv, then clow
*   20. mean ice temp. @ 1 m (C)
            flag; convert to mv, then clow
*   21. mean dTemp 1-3 meters (from t.c. wire) (C)
            bad
*   22. mean outgoing IR pyrgeometer output (pins A-B)(W/m2)

bad
*   23. mean outgoing IR hemisphere temp. (pins F-G) (mv)
                     bad
*   24. mean outgoing IR thermopile (pins A-C) (W/m2)
                     bad
*   25. mean outgoing IR case temp. (pins E-D) (mv)
                     bad
             26. sample of battery voltage
                     o1

*Notes:
1.   Gap in data between coh95602.dat and coh95602.dat 13:00 and 13:30 on Dec 19/95 (353)
2.   Up-looking Pyrgeometer not wired; ignore # 14-17
3.   Exact depth position of ice thermistors unknown (#18 & 19).
4.   Thermocouple not wired; ignore #21
5.   Down-looking pyrgeometer not wired; ignore # 22-25

Filename: coh95604.dat
Station: Commonwealth Glacier Station
Date of Establishment: Nov 22, 1993 by Peter Doran
Author of this report: Gayle Dana
File Period: Dec 19/95 @ 14:45 (353) to Dec 19/95 (353) @ 15:00
Sampling Frequency: every 1 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: coh956-2

       1. array I.D.
          o1
       2. day
          ok
       3. time
          ok
       4. mean air temp. @ 3 meters
          convert to mV, then Clow
       5. mean R.H. @ 3 meters (%)
          ok
       6. mean solar flux coming down (W/m2)
          divide by 100; multiply by 115.47
       7. mean solar flux going up (W/m2)
          divide by 100; multiply by 120.19
       8. mean horizontal wind speed (m/s)
          ok
       9. resultant mean wind speed (m/s)
          o1
       10. resultant mean wind direction (degrees from north)
          ok
       11. standard deviation of wind direction (degrees)
          ok
       12. maximum wind speed (m/s)
          ok
       13. minimum wind speed (m/s)
          ok
*   14. mean incoming IR pyrgeometer output (pins A-B) (W/m2)
          bad
*   15. mean incoming IR hemisphere temp. (pins A-C) (mv)
          bad
*   16. mean incoming IR thermopile output (pins F-G)(W/m2)
          bad
*   17. mean incoming IR case temp. (pins E-D)(mv)
          bad
       18. mean thermal infrared-skin temperature(C)
          ok
*   19. mean ice temp. @ 20 cm (C)
          flag; convert to mv, then clow
*   20. mean ice temp. @ 1 m (C)
          flag; convert to mv, then clow
*   21. mean dTemp 1-3 meters (from t.c. wire) (C)
          bad

*   22. mean outgoing IR pyrgeometer output (pins A-B)(W/m2)
              bad
*   23. mean outgoing IR hemisphere temp. (pins F-G) (mv)
              bad
*   24. mean outgoing IR thermopile (pins A-C) (W/m2)
              bad
*   25. mean outgoing IR case temp. (pins E-D) (mv)
              bad
     26. sample of battery voltage
              o1

*Notes:
1.   Up-looking Pyrgeometer not wired; ignore # 14-17
2.   Exact depth position of ice thermistors unknown (#18 & 19).
3.   Thermocouple not wired; ignore #21
4.   Down-looking pyrgeometer not wired; ignore # 22-25

Filename: coh95605.dat
Station: Commonwealth Glacier Station
Date of Establishment: Nov 22, 1993 by Peter Doran
Author of this report: Gayle Dana
File Period: Dec 19/95 @ 15:15 (353) to Jan 24/96 (24) @ 10:15
Sampling Frequency: every 1 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: coh956-2

        1. array I.D.
            o1
        2. day
            ok
        3. time
            ok
        4. mean air temp. @ 3 meters
            convert to mV, then Clow
        5. mean R.H. @ 3 meters (%)
            ok
        6. mean solar flux coming down (W/m2)
            divide by 100; multiply by 115.47
        7. mean solar flux going up (W/m2)
            divide by 100; multiply by 120.19
        8. mean horizontal wind speed (m/s)
            ok
        9. resultant mean wind speed (m/s)
            o1
*   10. resultant mean wind direction (degrees from north)
            flag
       11. standard deviation of wind direction (degrees)
            ok
       12. maximum wind speed (m/s)
            ok
       13. minimum wind speed (m/s)
            ok
       14. mean incoming IR pyrgeometer output (pins A-B) (W/m2)
            divide by 250; multiply by 256.41
       15. mean incoming IR hemisphere temp. (pins A-C) (mv)
            Eppley
       16. mean incoming IR thermopile output (pins F-G)(W/m2)
            Eppley
       17. mean incoming IR case temp. (pins E-D)(mv)
            Eppley
       18. mean thermal infrared-skin temperature(C)
            ok
*   19. mean ice temp. @ 20 cm (C)
            flag; convert to mv, then clow
*   20. mean ice temp. @ 1 m (C)
            flag; convert to mv, then clow
*   21. mean dTemp 1-3 meters (from t.c. wire) (C)
            bad
       22. mean outgoing IR pyrgeometer output (pins A-B)(W/m2)

divide by 250; multiply by 249.38
23. mean outgoing IR hemisphere temp. (pins F-G) (mv)
    Eppley
24. mean outgoing IR thermopile (pins A-C) (W/m2)
    Eppley
25. mean outgoing IR case temp. (pins E-D) (mv)
    Eppley
26. sample of battery voltage
    o1

*Notes:
1.   X arm loose; wind direction adjusted 13° counterclockwise
2.   Exact depth position of ice thermistors unknown (#18 & 19).
3.   Thermocouple not wired; ignore #21
4.   2nd battery and diode wiring installed at end of file period.

Heads up for Winter 1996 Commonwealth data

1.   Station powered down between 10:36 and 11:10 on Jan 24/96 to install battery diode wiring.

2.   Everest thermal infrared sensor not wired (FS #18) during winter.

Filename: exe95601.dat
Station: Explorer's Cove met station
Date of Establishment: Jan 10 1995 by Peter Doran
Author of this report: Gayle Dana
*File Period: Nov 24/95 (328) @ 11:00 to Nov24/95 (328) @ 11:00
Sampling Frequency: every 1 hour
Averaging and Output Interval: every 1 hour
Program name: exe956-1

      1. array I.D.
          o1
      2. day
          ok
      3. time
          ok
      4. sample precipitation (mm)
          ok
      5. sample battery voltage
          o1

*Notes: this file has only one line of data

Filename: exe95602.dat
Station: Explorer's Cove met station
Date of Establishment: Jan 10 1995 by Peter Doran
Author of this report: Gayle Dana
File Period: Nov 24/95 (328) @ 12:00 to Jan 24/96 (24) @ 09:00
Sampling Frequency: every 1 hour
Averaging and Output Interval: every 1 hour
Program name: exe956-1

       1. array I.D.
           o1
       2. day
           ok
       3. time
           ok
       4. sample precipitation (mm)
           ok
       5. sample battery voltage
           o1

Filename: exe95603.dat
Station: Explorer's Cove met station
Date of Establishment: Jan 10 1995 by Peter Doran
Author of this report: Gayle Dana
File Period: Jan 24/96 (24) @ 10:00 to Jan 26/96 (25) @ 14:00
Sampling Frequency: every 1 hour
Averaging and Output Interval: every 1 hour
*Program name: exe956-2

     1. array I.D.
        o1
     2. day
        ok
     3. time
        ok
     4. sample precipitation (mm)
        ok
     5. sample battery voltage
        o1

*Notes: exe956-2 program and output essentially the same as exe956-1

Filename: frl9501.prn
Station: Lake Fryxell met station
Date of Establishment: Jan 6, 1994 by Peter Doran
Author of this report: Peter Doran
File Period: Jan 11/95 (11) @10:20 to Jul 20/95 (201) @ 4:20
Sampling Frequency: every 30 secs.
Averaging and Output Interval: every 20 minutes
Program name: frl945-2

       1. array I.D.
          o1
       2. year
          ok
       3. day
          ok
       4. time
          ok
*   5. mean P.A.R. (see note)
          divide by 1.9008 and then multiply by 290.97 for W/m2
       6. mean 207 probe temp calculated from mV output using Steinhart-Hart equation and used in R.H. calculation
          (C)
          o1
       7. mean 207 probe temp. using Campbell command 11 (C)
          o1
       8. mean R.H. (%)
          ok
       9. mean solar flux coming down (W/m2)
          ok
      10. mean solar flux going up (W/m2)
          ok
      11. mean mV reading from thermistor 5 cm in soil
          clow
      12. mean mast dT 1-3 m (C)
          ok
      13. mean water vapor density (g/m3)*100
          divide by 100 for g/m3
      14. bulk Richardson number * 1000
          ok
      15. mean mV reading from surface soil thermistor
          clow
      16. mean mV reading from thermistor in 207 probe
          clow
      17. mean mV reading from thermistor 10 cm in soil
          clow
      18. sample of battery voltage
          o1
      19. mean horizontal wind speed (m/s)
          ok
      20. resultant mean wind speed (m/s)
          o1
      21. resultant mean wind direction (degrees from north)
          ok

22. standard deviation of wind direction (degrees)

      ok

23. maximum wind speed (m/s)

      ok

24. minimum wind speed (m/s)

      ok

25. maximum mV from thermistor in 207 probe

      clow

26. minimum mV from thermistor in 207 probe.

      clow

*Notes: 1) Multiplier for P.A.R. is 1.9008 & should be 290.97 for W/m2

Filename: frl9502.prn
Station: Lake Fryxell met station
Date of Establishment: Jan 6, 1994 by Peter Doran
Author of this report: Peter Doran
File Period: Jul 20/95 (201) @ 4:40 to Nov 21/95 (325) @ 12:40
Sampling Frequency: every 30 secs.
Averaging and Output Interval: every 20 minutes
Program name: frl945-2

          1. array I.D.
              o1
          2. year
              ok
          3. day
              ok
          4. time
              ok
*   5. mean P.A.R. (see note)
              divide by 1.9008 and then multiply by 290.97 for W/m2
          6. mean 207 probe temp calculated from mV output using Steinhart-Hart equation and used in R.H. calculation
              (C)
              o1
          7. mean 207 probe temp. using Campbell command 11 (C)
              o1
          8. mean R.H. (%)
              ok
          9. mean solar flux coming down (W/m2)
              ok
          10. mean solar flux going up (W/m2)
              ok
          11. mean mV reading from thermistor 5 cm in soil
              clow
          12. mean mast dT 1-3 m (C)
              ok
          13. mean water vapor density (g/m3)*100
              divide by 100 for g/m3
          14. bulk Richardson number * 1000
              ok
          15. mean mV reading from surface soil thermistor
              clow
          16. mean mV reading from thermistor in 207 probe
              clow
          17. mean mV reading from thermistor 10 cm in soil
              clow
          18. sample of battery voltage
              o1
          19. mean horizontal wind speed (m/s)
              ok
          20. resultant mean wind speed (m/s)
              o1
          21. resultant mean wind direction (degrees from north)
              ok

22. standard deviation of wind direction (degrees)
    ok
23. maximum wind speed (m/s)
    ok
24. minimum wind speed (m/s)
    ok
25. maximum mV from thermistor in 207 probe
    clow
26. minimum mV from thermistor in 207 probe.
    clow

*Notes: 1) Multiplier for P.A.R. is 1.9008 & should be 290.97 for W/m2

Filename: frl95601.dat
Station: Lake Fryxell met station
Date of Establishment: Jan 6, 1994 by Peter Doran
Author of this report: Gayle Dana
File Period: Nov 21/95 (325) @14:30 to Nov 30/95 (334) @ 11:45
Sampling Frequency: every 1 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: frl956-1

       1. array I.D.
            o1
       2. day
            ok
       3. time
            ok
       4. mean air temp. @ 3 meters
            convert to mV, then Clow
       5. mean R.H. @ 3 meters (%)
            ok
       6. mean solar flux coming down (W/m2)
            ok
       7. mean solar flux going up (W/m2)
            ok
       8. mean horizontal wind speed (m/s)
            ok
       9. resultant mean wind speed (m/s)
            o1
       10. resultant mean wind direction (degrees from north)
            ok
       11. standard deviation of wind direction (degrees)
            ok
       12. maximum wind speed (m/s)
            ok
       13. minimum wind speed (m/s)
            ok
       14. mean P.A.R. (micromols/s/m2)
            divide by 200, multiply by 277.32
       15. mean soil temperature @ 0 cm in soil (C)
            convert to mV, then Clow
       16. mean soil temperature @ 5 cm in soil (C)
            convert to mV, then clow
       17. mean soil temperature @ 10 cm in soil (C)
            convert to mV, then clow
       18. sample of battery voltage
            o1

Filename: frl95602.dat
Station: Lake Fryxell met station
Date of Establishment: Jan 6, 1994 by Peter Doran
Author of this report: Gayle Dana
*File Period: Nov 30/95 (334) @12:00 to Nov 30/95 (334) @ 12:00
Sampling Frequency: every 1 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: frl956-1

       1. array I.D.
            o1
       2. day
            ok
       3. time
            ok
       4. mean air temp. @ 3 meters
            convert to mV, then Clow
       5. mean R.H. @ 3 meters (%)
            ok
       6. mean solar flux coming down (W/m2)
            ok
       7. mean solar flux going up (W/m2)
            ok
       8. mean horizontal wind speed (m/s)
            ok
       9. resultant mean wind speed (m/s)
            o1
       10. resultant mean wind direction (degrees from north)
            ok
       11. standard deviation of wind direction (degrees)
            ok
       12. maximum wind speed (m/s)
            ok
       13. minimum wind speed (m/s)
            ok
       14. mean P.A.R. (micromols/s/m2)
            divide by 200, multiply by 277.32
       15. mean soil temperature @ 0 cm in soil (C)
            convert to mV, then Clow
       16. mean soil temperature @ 5 cm in soil (C)
            convert to mV, then clow
       17. mean soil temperature @ 10 cm in soil (C)
            convert to mV, then clow
       18. sample of battery voltage
            o1

*Notes: there is only one line of data in this file

Filename: frl95603.dat
Station: Lake Fryxell met station
Date of Establishment: Jan 6, 1994 by Peter Doran
Author of this report: Gayle Dana
File Period: Nov 30/95 (325) @12:15 to Jan 24/96 (24) @ 12:15
Sampling Frequency: every 1 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: frl956-1

     1. array I.D.
          o1
     2. day
          ok
     3. time
          ok
     4. mean air temp. @ 3 meters
          convert to mV, then Clow
     5. mean R.H. @ 3 meters (%)
          ok
     6. mean solar flux coming down (W/m2)
          ok
     7. mean solar flux going up (W/m2)
          ok
     8. mean horizontal wind speed (m/s)
          ok
     9. resultant mean wind speed (m/s)
          o1
*   10. resultant mean wind direction (degrees from north)
          ok
     11. standard deviation of wind direction (degrees)
          ok
     12. maximum wind speed (m/s)
          ok
     13. minimum wind speed (m/s)
          ok
     14. mean P.A.R. (micromols/s/m2)
          divide by 200, multiply by 277.32
     15. mean soil temperature @ 0 cm in soil (C)
          convert to mV, then Clow
     16. mean soil temperature @ 5 cm in soil (C)
          convert to mV, then clow
     17. mean soil temperature @ 10 cm in soil (C)
          convert to mV, then clow
     18. sample of battery voltage
          o1

*Notes:

1) 2nd battery and diode wiring installed at end of file period.
2) Wind vane adjusted 13° clockwise at ~12:30 on 1/24/96
3) Heads up for overwinter data: station powered down between 12:48 and 13:10 hours on 1/24/96 to install diodes

Filename: hoe95001.prn
Station: Lake Hoare met station
Date of Establishment: Dec 1, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: Jan 23 (23) @ 01:00 to Jan 27/95 (27) @ 16:40
Sampling Frequency: every 30 secs.
Averaging and Output Interval: every 20 minutes
Program Name: hoe945-3

       1. array I.D.
          o1
       2. year
          ok
       3. day
          ok
       4. time
          ok
       5. mean P.A.R. ((mMoles/s/m2))*10
          ok
       6. mean 207 probe temp calculated from mV output using   Steinhart-Hart equation and used in R.H.
          calculation (C)
          o1
       7. mean 207 probe temp. using Campbell command 11 (C)
          o1
       8. mean R.H. (%)
          ok
*   9. mean wind speed
          bad
*   10. mean wind direction
          bad
       11. mean solar flux coming down (kW/m2)*10
          ok
       12. mean solar flux going up (kW/m2)*10
          ok
       13. station barometric pressure (mbars)
          ok
       14. dTemp 1-3m (C)
          ok
       15. mean water vapor density (g/m3)*100
          divide by 100 for g/m3
       16. bulk Richardson number * 1000
          ok
       17. mean mV reading from surface soil thermistor
          clow
       18. mean mV reading from thermistor in 207 probe
          clow
       19. mean mV reading from soil thermistor at 10 cm depth
          clow
       20. sample of battery voltage
          o1
       21. mean liquid in Belfort precip gage (mm)
          ok

22. mean horizontal wind speed (m/s)
    ok
23. resultant mean wind speed (m/s)
    o1
24. resultant mean wind direction (degrees from north)
    ok
25. standard deviation of wind direction (degrees)
    ok
26. maximum wind speed (m/s)
    ok
27. minimum wind speed (m/s)
    ok
28. maximum mV from thermistor in 207 probe
    clow
29. minimum mV from thermistor in 207 probe.
    clow

*Notes: 1) Wind speed and direction (#9 and #10) should be disregarded. They are not supposed to appear in those positions (programming error)

Filename: hoe95002.prn
Station: Lake Hoare met station
Date of Establishment: Dec 1, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: Jan 27/95 (27) @ 17:20 to Jul 12/95 (193) @ 19:00*
Sampling Frequency: every 30 secs.
Averaging and Output Interval: every 20 minutes
Program Name: hoe945-3

      1. array I.D.
          o1
      2. year
          ok
      3. day
          ok
      4. time
          ok
      5. mean P.A.R. ((mMoles/s/m2))*10
          ok
      6. mean 207 probe temp calculated from mV output using   Steinhart-Hart equation and used in R.H.
          calculation (C)
          o1
      7. mean 207 probe temp. using Campbell command 11 (C)
          o1
      8. mean R.H. (%)
          ok
*   9. mean wind speed
          bad
*   10. mean wind direction
          bad
      11. mean solar flux coming down (kW/m2)*10
          ok
      12. mean solar flux going up (kW/m2)*10
          ok
      13. station barometric pressure (mbars)
          ok
      14. dTemp 1-3m (C)
          ok
      15. mean water vapor density (g/m3)*100
          divide by 100 for g/m3
      16. bulk Richardson number * 1000
          ok
      17. mean mV reading from surface soil thermistor
          clow
      18. mean mV reading from thermistor in 207 probe
          clow
      19. mean mV reading from soil thermistor at 10 cm depth
          clow
      20. sample of battery voltage
          o1
      21. mean liquid in Belfort precip gage (mm)
          ok

22. mean horizontal wind speed (m/s)
>   ok
23. resultant mean wind speed (m/s)
>   o1
24. resultant mean wind direction (degrees from north)
>   ok
25. standard deviation of wind direction (degrees)
>   ok
26. maximum wind speed (m/s)
>   ok
27. minimum wind speed (m/s)
>   ok
28. maximum mV from thermistor in 207 probe
>   clow
29. minimum mV from thermistor in 207 probe.
>   clow

*Notes: 1) Wind speed and direction (#9 and #10) should be disregarded. They are not supposed to appear in those positions (programming error)

2) For some reason day 27 @ 1700 appears as the first line in hoe95003.prn

Filename: hoe95003.prn
Station: Lake Hoare met station
Date of Establishment: Dec 1, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: Jul 12/95 (193) @ 19:20* to (330) Nov 26/95 @ 18:00
Sampling Frequency: every 30 secs.
Averaging and Output Interval: every 20 minutes
Program Name: hoe945-3

       1. array I.D.
          o1
       2. year
          ok
       3. day
          ok
       4. time
          ok
       5. mean P.A.R. ((mMoles/s/m2))*10
          ok
       6. mean 207 probe temp calculated from mV output using   Steinhart-Hart equation and used in R.H.
          calculation (C)
          o1
       7. mean 207 probe temp. using Campbell command 11 (C)
          o1
       8. mean R.H. (%)
          ok
*   9. mean wind speed
          bad
*   10. mean wind direction
          bad
       11. mean solar flux coming down (kW/m2)*10
          ok
       12. mean solar flux going up (kW/m2)*10
          ok
       13. station barometric pressure (mbars)
          ok
       14. dTemp 1-3m (C)
          ok
       15. mean water vapor density (g/m3)*100
          divide by 100 for g/m3
       16. bulk Richardson number * 1000
          ok
       17. mean mV reading from surface soil thermistor
          clow
       18. mean mV reading from thermistor in 207 probe
          clow
       19. mean mV reading from soil thermistor at 10 cm depth
          clow
       20. sample of battery voltage
          o1
       21. mean liquid in Belfort precip gage (mm)
          ok

22. mean horizontal wind speed (m/s)
        ok
23. resultant mean wind speed (m/s)
        o1
24. resultant mean wind direction (degrees from north)
        ok
25. standard deviation of wind direction (degrees)
        ok
26. maximum wind speed (m/s)
        ok
27. minimum wind speed (m/s)
        ok
28. maximum mV from thermistor in 207 probe
        clow
29. minimum mV from thermistor in 207 probe.
        clow

*Notes: 1) Wind speed and direction (#9 and #10) should be disregarded. They are not supposed to appear in those
                positions (programming error)
            2) First line of data belongs in hoe95002.prn

Filename: hoe95601.dat
Station: Lake Hoare met station
Date of Establishment: Dec 1, 1993 by Peter Doran
Author of this report: Gayle Dana
File Period: Nov 26/95 (330) @ 18:20 to Nov 28/95 (332) @ 15:20
Sampling Frequency: every 30 secs.
Averaging and Output Interval: every 20 minutes
Program Name: hoe945-3

       1. array I.D.
          o1
       2. year
          ok
       3. day
          ok
       4. time
          ok
       5. mean P.A.R. ((mMoles/s/m2))*10
          ok
       6. mean 207 probe temp calculated from mV output using   Steinhart-Hart equation and used in R.H.
          calculation (C)
          o1
       7. mean 207 probe temp. using Campbell command 11 (C)
          o1
       8. mean R.H. (%)
          ok
*   9. mean wind speed
          bad
*   10. mean wind direction
          bad
       11. mean solar flux coming down (kW/m2)*10
          ok
       12. mean solar flux going up (kW/m2)*10
          ok
       13. station barometric pressure (mbars)
          ok
       14. dTemp 1-3m (C)
          ok
       15. mean water vapor density (g/m3)*100
          divide by 100 for g/m3
       16. bulk Richardson number * 1000
          ok
       17. mean mV reading from surface soil thermistor
          clow
       18. mean mV reading from thermistor in 207 probe
          clow
       19. mean mV reading from soil thermistor at 10 cm depth
          clow
       20. sample of battery voltage
          o1
       21. mean liquid in Belfort precip gage (mm)
          ok

22. mean horizontal wind speed (m/s)
      ok
23. resultant mean wind speed (m/s)
      o1
24. resultant mean wind direction (degrees from north)
      ok
25. standard deviation of wind direction (degrees)
      ok
26. maximum wind speed (m/s)
      ok]
27. minimum wind speed (m/s)
      ok
28. maximum mV from thermistor in 207 probe
      clow
29. minimum mV from thermistor in 207 probe.
      clow

*Notes: 1) Wind speed and direction (#9 and #10) should be disregarded. They are not supposed to appear in those
                positions (programming error)

Filename: hoe95602.dat
Station: Lake Hoare met station
Date of Establishment: Dec 1, 1993 by Peter Doran
Author of this report: Gayle Dana
File Period: Day 0 @ 00:05 to Day 10 @ 23:15
                              [Nov 28/95 (332) 16:02 to Dec 9/95 (343) 15:02]
Sampling Frequency: every 1 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program Name: hoe956-1

        1. array I.D.
                o1
*   2. day
                flag
*   3. time
                flag
        4. mean air temp. @ 3 meters
                convert to mV, then Clow
        5. mean R.H. @ 3 meters (%)
                ok
        6. mean solar flux coming down (W/m2)
                ok
        7. mean solar flux going up (W/m2)
                ok
        8. mean horizontal wind speed (m/s)
                ok
        9. resultant mean wind speed (m/s)
                o1
        10. resultant mean wind direction (degrees from north)
                ok
        11. standard deviation of wind direction (degrees)
                ok
        12. maximum wind speed (m/s)
                ok
        13. minimum wind speed (m/s)
                ok
        14. mean P.A.R. (micromols/s/m2)
                divide by 200, multiply by 290.97
        15. sample precipitation (mm)
                ok
        16. sample station barometric pressure (mbar)
                ok
        17. mean temperature difference 1-3 m (C)
                convert to mV, then clow
        18. sample of battery voltage
                o1

*Notes:
1. Time and date were not reset after downloading new program. Date and time are as listed in data file; time and date in brackets are thought to be the correct values as inferred from known date and time when clock was reset on 12/10/95 (see notes under hoe95605.dat).

2. There is a between hoe95601.dat and hoe95602.dat, 15:20-16:00.

Filename: hoe95603.dat
Station: Lake Hoare met station
Date of Establishment: Dec 1, 1993 by Peter Doran
Author of this report: Gayle Dana
*File Period: Day 10 @ 23:30 to Day 10 @ 24:00
                                   (Dec 9/95 (343) @ 15:17 to Dec 9/95 (343) @ 15:47]
Sampling Frequency: every 1 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program Name: hoe956-1

        1. array I.D.
              o1
*   2. day
              flag
*   3. time
              flag
        4. mean air temp. @ 3 meters
              convert to mV, then Clow
        5. mean R.H. @ 3 meters (%)
              ok
        6. mean solar flux coming down (W/m2)
              ok
        7. mean solar flux going up (W/m2)
              ok
        8. mean horizontal wind speed (m/s)
              ok
        9. resultant mean wind speed (m/s)
              o1
        10. resultant mean wind direction (degrees from north)
              ok
        11. standard deviation of wind direction (degrees)
              ok
        12. maximum wind speed (m/s)
              ok
        13. minimum wind speed (m/s)
              ok
        14. mean P.A.R. (micromols/s/m2)
              divide by 200, multiply by 290.97
        15. sample precipitation (mm)
              ok
        16. sample station barometric pressure (mbar)
              ok
        17. mean temperature difference 1-3 m (C)
              convert to mV, then clow
        18. sample of battery voltage
              o1

Notes:
*1. Time and date were not reset after downloading new program. Date and time are as listed in data file; time and date in brackets are thought to be the correct values as inferred from known date and time when clock was reset on 12/10/95 (see notes under hoe95605.dat).

Filename: hoe95604.dat
Station: Lake Hoare met station
Date of Establishment: Dec 1, 1993 by Peter Doran
Author of this report: Gayle Dana
*File Period: Day 11 @ 00:15 to Day 11 @ 19:00
                                   [Dec 9/95 (343) @ 16:02 to Dec 10/95 (343) @ 10:47]
Sampling Frequency: every 1 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program Name: hoe956-1

          1. array I.D.
                    o1
*   2. day
                    flag
*   3. time
                    flag
          4. mean air temp. @ 3 meters
                    convert to mV, then Clow
          5. mean R.H. @ 3 meters (%)
                    ok
          6. mean solar flux coming down (W/m2)
                    ok
          7. mean solar flux going up (W/m2)
                    ok
          8. mean horizontal wind speed (m/s)
                    ok
          9. resultant mean wind speed (m/s)
                    o1
          10. resultant mean wind direction (degrees from north)
                    ok
          11. standard deviation of wind direction (degrees)
                    ok
          12. maximum wind speed (m/s)
                    ok
          13. minimum wind speed (m/s)
                    ok
          14. mean P.A.R. (micromols/s/m2)
                    divide by 200, multiply by 290.97
          15. sample precipitation (mm)
                    ok
          16. sample station barometric pressure (mbar)
                    ok
          17. mean temperature difference 1-3 m (C)
                    convert to mV, then clow
          18. sample of battery voltage
                    o1

*Notes:
1. Time and date were not reset after downloading new program. Date and time are as listed in data file; time and date in brackets are thought to be the correct values as inferred from known date and time when clock was reset on 12/10/95 (see notes under hoe95605.dat).

*Filename: hoe95606.dat
Station: Lake Hoare met station
Date of Establishment: Dec 1, 1993 by Peter Doran
Author of this report: Gayle Dana
*File Period: Day 11 @ 19:15 to Day 11 @ 19:15
                                    [Dec 10/95 (344) @ 11:02 to Dec 10/95 (344) @ 11:02]
Sampling Frequency: every 1 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program Name: hoe956-1

         1. array I.D.
                  o1
*   2. day
                  flag
*   3. time
                  flag
         4. mean air temp. @ 3 meters
                  convert to mV, then Clow
         5. mean R.H. @ 3 meters (%)
                  ok
         6. mean solar flux coming down (W/m2)
                  ok
         7. mean solar flux going up (W/m2)
                  ok
         8. mean horizontal wind speed (m/s)
                  ok
         9. resultant mean wind speed (m/s)
                  o1
         10. resultant mean wind direction (degrees from north)
                  ok
         11. standard deviation of wind direction (degrees)
                  ok
         12. maximum wind speed (m/s)
                  ok
         13. minimum wind speed (m/s)
                  ok
         14. mean P.A.R. (micromols/s/m2)
                  divide by 200, multiply by 290.97
         15. sample precipitation (mm)
                  ok
         16. sample station barometric pressure (mbar)
                  ok
         17. mean temperature difference 1-3 m (C)
                  convert to mV, then clow
         18. sample of battery voltage
                  o1

*Notes:
1. Note that file number is out of sequence; the proper sequence is hoe95604.dat, hoe95606.dat, hoe95605.dat, hoe95607.dat.
2. Time and date were not reset after downloading new program. Date and time are as listed in data file; time and date in brackets are thought to be the correct values as inferred from known date and time when clock was reset on

12/10/95 (see notes under hoe95605.dat).

Filename: hoe95605.dat
Station: Lake Hoare met station
Date of Establishment: Dec 1, 1993 by Peter Doran
Author of this report: Gayle Dana
File Period: Dec 10/95 (344) @ 11:15 to Jan 22/96 (22) @19:45
Sampling Frequency: every 1 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program Name: hoe956-1

      1. array I.D.
           o1
      2. day
           ok
      3. time
           ok
      4. mean air temp. @ 3 meters
           convert to mV, then Clow
      5. mean R.H. @ 3 meters (%)
           ok
      6. mean solar flux coming down (W/m2)
           ok
      7. mean solar flux going up (W/m2)
           ok
      8. mean horizontal wind speed (m/s)
           ok
      9. resultant mean wind speed (m/s)
           o1
      10. resultant mean wind direction (degrees from north)
           ok
      11. standard deviation of wind direction (degrees)
           ok
      12. maximum wind speed (m/s)
           ok
      13. minimum wind speed (m/s)
           ok
      14. mean P.A.R. (micromols/s/m2)
           divide by 200, multiply by 290.97
      15. sample precipitation (mm)
           ok
      16. sample station barometric pressure (mbar)
           ok
      17. mean temperature difference 1-3 m (C)
           convert to mV, then clow
      18. sample of battery voltage
           o1

*Notes:

1. Year, day and time on CR10 reset to local time: year changed from 00 to 95; day changed from 11 to 344; time changed from 19:19 to 11:06 (local time).

Filename: hoe95607.dat
Station: Lake Hoare met station
Date of Establishment: Dec 1, 1993 by Peter Doran
Author of this report: Gayle Dana
File Period: Jan 22/96 (344) @ 20:00 to Jan 24/96 (24) @ 18:00
Sampling Frequency: every 1 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program Name: hoe956-1

        1. array I.D.
                o1
        2. day
                ok
        3. time
                ok
        4. mean air temp. @ 3 meters
                convert to mV, then Clow
        5. mean R.H. @ 3 meters (%)
                ok
        6. mean solar flux coming down (W/m2)
                ok
        7. mean solar flux going up (W/m2)
                ok
        8. mean horizontal wind speed (m/s)
                ok
        9. resultant mean wind speed (m/s)
                o1
*   10. resultant mean wind direction (degrees from north)
                flag
        11. standard deviation of wind direction (degrees)
                ok
        12. maximum wind speed (m/s)
                ok
        13. minimum wind speed (m/s)
                ok
        14. mean P.A.R. (micromols/s/m2)
                divide by 200, multiply by 290.97
        15. sample precipitation (mm)
                ok
        16. sample station barometric pressure (mbar)
                ok
        17. mean temperature difference 1-3 m (C)
                convert to mV, then clow
        18. sample of battery voltage
                o1

*Notes:

1. 2nd battery and diode wiring added at end of file period.
2. Crossarm easily pivoting; tightened down. After tightening, wind vane required a 20° clockwise adjustment.

Lake Hoare Station: Heads-up Notes for 1996 Overwinter data

1. Station powered down between ~18:15 to 18:45 on Jan 24/96 (24) to install battery diode wiring.

2. No program running between ~18:45 and 23:00 on Jan 24/96 (24).

3. Day and time improperly set at 23:00 on Jan24/96. Proper time and day reset on Jan 27/96. At time of reset these values were noted:

	CR10 (not correct)	Reset to Local time
Day	26	27
Time	21:37	09:37

Filename: hod95001.prn
Station: Howard Glacier Station
Date of Establishment: Nov 20, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: Jan 23/95 (23) @ 13:20 to Aug 18/95 (230) @ 00:20
Sampling Frequency: every 30 secs.
Averaging and Output Interval: every 20 minutes
Program name: hod945-2

    1. array I.D.
        o1
    2. year
        ok
    3. date
        ok
    4. time
        ok
    5. mean I.R. (W/m2)
        ok
    6. mean 207 probe temp calculated from mV output using Steinhart-Hart equation and used in R.H. calculation
        (C)
        o1
    7. mean 207 probe temp. using Campbell command 11 (C)
        o1
    8. mean R.H. (%)
        ok
    9. mean solar flux coming down (W/m2)
        ok
    10. mean solar flux coming up (W/m2)
        ok
    11. mean water vapor density (g/m3)*100
        divide by 100 for g/m3
    12. mean mV reading from thermistor in 207 probe
        clow
    13. mean mV reading from shallow ice thermistor
        clow
    14. mean mV reading from deep ice thermistor
        clow
    15. sample of battery voltage
        o1
    16. mean horizontal wind speed (m/s)
        ok
    17. resultant mean wind speed (m/s)
        o1
    18. resultant mean wind direction (degrees from north)
        ok
    19. standard deviation of wind direction (degrees)
        ok
    20. maximum wind speed (m/s)
        ok
    21. minimum wind speed (m/s)
        ok

22. maximum mV from thermistor in 207 probe

        clow
23. minimum mV from thermistor in 207 probe
        clow
*   24. sample of thermal infrared (C)
        bad

*Notes: 1) Thermal infrared sensor not working, ignore #24

Filename: hod95002.prn
Station: Howard Glacier Station
Date of Establishment: Nov 20, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: Aug 18/95 (230) @ 00:40 to Nov 27/95 (331) @ 13:40
Sampling Frequency: every 30 secs.
Averaging and Output Interval: every 20 minutes
Program name: hod945-2

     1. array I.D.
          o1
     2. year
          ok
     3. date
          ok
     4. time
          ok
     5. mean I.R. (W/m2)
          ok
     6. mean 207 probe temp calculated from mV output using Steinhart-Hart equation and used in R.H. calculation
          (C)
          o1
     7. mean 207 probe temp. using Campbell command 11 (C)
          o1
     8. mean R.H. (%)
          ok
     9. mean solar flux coming down (W/m2)
          ok
     10. mean solar flux coming up (W/m2)
          ok
     11. mean water vapor density (g/m3)*100
          divide by 100 for g/m3
     12. mean mV reading from thermistor in 207 probe
          clow
     13. mean mV reading from shallow ice thermistor
          clow
     14. mean mV reading from deep ice thermistor
          clow
     15. sample of battery voltage
          o1
     16. mean horizontal wind speed (m/s)
          ok
     17. resultant mean wind speed (m/s)
          o1
     18. resultant mean wind direction (degrees from north)
          ok
     19. standard deviation of wind direction (degrees)
          ok
     20. maximum wind speed (m/s)
          ok
     21. minimum wind speed (m/s)
          ok

22. maximum mV from thermistor in 207 probe

       clow
23. minimum mV from thermistor in 207 probe
       clow
*   24. sample of thermal infrared (C)
       bad

*Notes: 1) Thermal infrared sensor not working, ignore #24

Filename: hod95003.prn
Station: Howard Glacier Station
Date of Establishment: Nov 20, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: Nov 27/95 (331) @ 14:00 to Nov 27/95 (331) @ 15:00
Sampling Frequency: every 30 secs.
Averaging and Output Interval: every 20 minutes
Program name: hod945-2

       1. array I.D.
            o1
       2. year
            ok
       3. date
            ok
       4. time
            ok
       5. mean I.R. (W/m2)
            ok
       6. mean 207 probe temp calculated from mV output using Steinhart-Hart equation and used in R.H. calculation
            (C)
            o1
       7. mean 207 probe temp. using Campbell command 11 (C)
            o1
       8. mean R.H. (%)
            ok
       9. mean solar flux coming down (W/m2)
            ok
       10. mean solar flux coming up (W/m2)
            ok
       11. mean water vapor density (g/m3)*100
            divide by 100 for g/m3
       12. mean mV reading from thermistor in 207 probe
            clow
       13. mean mV reading from shallow ice thermistor
            clow
       14. mean mV reading from deep ice thermistor
            clow
       15. sample of battery voltage
            o1
       16. mean horizontal wind speed (m/s)
            ok
       17. resultant mean wind speed (m/s)
            o1
       18. resultant mean wind direction (degrees from north)
            ok
       19. standard deviation of wind direction (degrees)
            ok
       20. maximum wind speed (m/s)
            ok
       21. minimum wind speed (m/s)
            ok

22. maximum mV from thermistor in 207 probe

clow
23. minimum mV from thermistor in 207 probe
clow
* 24. sample of thermal infrared (C)
bad

*Notes: 1) Thermal infrared sensor not working, ignore #24

Filename: hod95601.dat
Station: Howard Glacier Station
Date of Establishment: Nov 20, 1993 by Peter Doran
Author of this report: Gayle Dana
File Period: Nov 27/95 (331) @ 15:30 to Dec 15/95 (349) @ 10:15
Sampling Frequency: every 1 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: hod956-1

        1. array I.D.
                o1
        2. day
                ok
        3. time
                ok
        4. mean air temp. @ 3 meters
                convert to mV, then Clow
        5. mean R.H. @ 3 meters (%)
                ok
        6. mean solar flux coming down (W/m2)
                divide by 100; multiply by 115.61
        7. mean solar flux going up (W/m2)
                divide by 100; multiply by 116.41
        8. mean horizontal wind speed (m/s)
                ok
        9. resultant mean wind speed (m/s)
                o1
        10. resultant mean wind direction (degrees from north)
                ok
        11. standard deviation of wind direction (degrees)
                ok
        12. maximum wind speed (m/s)
                ok
        13. minimum wind speed (m/s)
                ok
*   14. mean ice temp. near surface (C)
                flag; convert to mv, then clow
*   15. mean ice temp. @ ~1 m (C)
                flag; convert to mv, then clow
*   16. mean dTemp 1-3 meters (C)
                bad
        17. mean air temp @ 1 meter m (C)
                convert to mV, then clow
        18. mean rh @ 1 meter (c)
                ok
        19. sample of battery voltage
                o1

*Notes:
1. Exact depth position of ice thermistors unknown (#14 & 15).
2) Thermocouple not installed, ignore #16

Filename: hod95602.dat
Station: Howard Glacier Station
Date of Establishment: Nov 20, 1993 by Peter Doran
Author of this report: Gayle Dana
File Period: Dec 15/95 (349) @ 10:30 to Dec 15/95 (349) @ 10:45
Sampling Frequency: every 1 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: hod956-2

         1. array I.D.
            o1
         2. day
            ok
         3. time
            ok
         4. mean air temp. @ 3 meters
            convert to mV, then Clow
         5. mean R.H. @ 3 meters (%)
            ok
*   6. mean solar flux coming down (W/m2)
            bad
*   7. mean solar flux going up (W/m2)
            bad
         8. mean horizontal wind speed (m/s)
            ok
         9. resultant mean wind speed (m/s)
            o1
         10. resultant mean wind direction (degrees from north)
            ok
         11. standard deviation of wind direction (degrees)
            ok
         12. maximum wind speed (m/s)
            ok
         13. minimum wind speed (m/s)
            ok
*   14. mean ice temp. near surface (C)
            flag; convert to mv, then clow
*   15. mean ice temp. @ ~1 m (C)
            flag; convert to mv, then clow
*   16. mean dTemp 1-3 meters (C)
            bad
         17. mean air temp @ 1 meter m (C)
            convert to mV, then clow
         18. mean rh @ 1 meter (c)
            ok
         19. sample of battery voltage
            o1

*Notes: 1. There are only two lines of data in this file
2. Solar up and down sensors in process of being moved from multiplexor to CR10 wiring panel, ignore # 6 & 7
3. Exact depth position of ice thermistors unknown (#14 & 15).
4. Thermocouple not installed, ignore #16

5. Multiplexor removed for diagnostic purposes; does not affect final storage output

Filename: hod95603.dat
Station: Howard Glacier Station
Date of Establishment: Nov 20, 1993 by Peter Doran
Author of this report: Gayle Dana
File Period: Dec 15/95 (349) @ 11:15 to Dec 15/95 (349) @ 11:15
Sampling Frequency: every 1 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: hod956-2

          1. array I.D.
               o1
          2. day
               ok
          3. time
               ok
          4. mean air temp. @ 3 meters
               convert to mV, then Clow
          5. mean R.H. @ 3 meters (%)
               ok
          6. mean solar flux coming down (W/m2)
               divide by 100; multiply by 115.61
          7. mean solar flux going up (W/m2)
               divide by 100; multiply by 116.41
          8. mean horizontal wind speed (m/s)
               ok
          9. resultant mean wind speed (m/s)
               o1
          10. resultant mean wind direction (degrees from north)
               ok
          11. standard deviation of wind direction (degrees)
               ok
          12. maximum wind speed (m/s)
               ok
          13. minimum wind speed (m/s)
               ok
*   14. mean ice temp. near surface (C)
               flag; convert to mv, then clow
*   15. mean ice temp. @ ~1 m (C)
               flag; convert to mv, then clow
 *   16. mean dTemp 1-3 meters (C)
               bad
          17. mean air temp @ 1 meter m (C)
               convert to mV, then clow
          18. mean rh @ 1 meter (c)
               ok
          19. sample of battery voltage
               o1

*Notes:

1. There is only one line of data in this file
2. Exact depth position of ice thermistors unknown (#14 & 15).

3. Thermocouple not installed, ignore #16

Filename: hod95604.dat
Station: Howard Glacier Station
Date of Establishment: Nov 20, 1993 by Peter Doran
Author of this report: Gayle Dana
File Period: Dec 15/95 (349) @ 11:30 to Jan 24/95 (24) @ 14:30
Sampling Frequency: every 1 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: hod956-2

       1. array I.D.
          o1
       2. day
          ok
       3. time
          ok
       4. mean air temp. @ 3 meters
          convert to mV, then Clow
       5. mean R.H. @ 3 meters (%)
          ok
       6. mean solar flux coming down (W/m2)
          divide by 100; multiply by 115.61
       7. mean solar flux going up (W/m2)
          divide by 100; multiply by 116.41
       8. mean horizontal wind speed (m/s)
          ok
       9. resultant mean wind speed (m/s)
          o1
       10. resultant mean wind direction (degrees from north)

       11. standard deviation of wind direction (degrees)
          ok
       12. maximum wind speed (m/s)
          ok
       13. minimum wind speed (m/s)
          ok
*   14. mean ice temp. near surface (C)
          flag; convert to mv, then clow
*   15. mean ice temp. @ ~1 m (C)
          flag; convert to mv, then clow
*   16. mean dTemp 1-3 meters (C)
          bad
       17. mean air temp @ 1 meter m (C)
          convert to mV, then clow
       18. mean rh @ 1 meter (c)
          ok
       19. sample of battery voltage
          o1

*Notes:

1. Exact depth position of ice thermistors unknown (#14 & 15).
1. Thermocouple not installed, ignore #16

3. 2nd battery and diode wiring added at end of file period.
4. Heads up for 1996 overwinter data: station powered down between @ 15:00 and 15:38 to install battery diodes.

Filename: tar95001.prn
Station: Taylor Glacier Station
Date of Establishment: Nov 21, 1994 by Peter Doran
Author of this report: Peter Doran
File Period: Jan 23/95 (23) @ 11:00 to Aug 17/95 (229) @ 22:00
Sampling Frequency: every 30 secs.
Averaging and Output Interval: every 20 minutes
Program name: tar945-2

    1. array I.D.
     o1
    2. year
     ok
    3. date
     ok
    4. time
     ok
*   5. mean I.R. (W/m2)
     bad
    6. mean 207 probe temp calculated from mV output using Steinhart-Hart equation and used in R.H. calculation
     (C)
     o1
    7. mean 207 probe temp. using Campbell command 11 (C)
     o1
    8. mean R.H. (%)
     ok
    9. mean solar flux coming down (W/m2)
     ok
    10. mean solar flux coming up (W/m2)
     ok
    11. mean water vapor density (g/m3)*100
     divide by 100 for g/m3
    12. mean mV reading from thermistor in 207 probe
     clow
    13. mean mV reading from shallow ice thermistor
     clow
    14. mean mV reading from deep ice thermistor
     clow
    15. sample of battery voltage
     o1
    16. mean horizontal wind speed (m/s)
     ok
    17. resultant mean wind speed (m/s)
     o1
    18. resultant mean wind direction (degrees from north)
     ok
    19. standard deviation of wind direction (degrees)
     ok
    20. maximum wind speed (m/s)
     ok, flag
    21. minimum wind speed (m/s)
     ok, flag

22. maximum mV from thermistor in 207 probe
        clow
23. minimum mV from thermistor in 207 probe
        clow
*   24. sample of thermal infrared (C)
        bad

Notes: :1) No thermal infrared sensor wired. Ignore # 24
            2) No purgeometer wired. Ignore # 5

Filename: tar95002.prn
Station: Taylor Glacier Station
Date of Establishment: Nov 21, 1994 by Peter Doran
Author of this report: Peter Doran
File Period: Aug 17/95 (229) @ 22:20 to Nov 17/95 (321) @ 12:00
Sampling Frequency: every 30 secs.
Averaging and Output Interval: every 20 minutes
Program name: tar945-2

           1. array I.D.
               o1
           2. year
               ok
           3. date
               ok
           4. time
               ok
*   5. mean I.R. (W/m2)
               bad
6. mean 207 probe temp calculated from mV output using Steinhart-Hart equation and used in R.H. calculation
               (C)
               o1
7. mean 207 probe temp. using Campbell command 11 (C)
               o1
8. mean R.H. (%)
               ok
9. mean solar flux coming down (W/m2)
               ok
10. mean solar flux coming up (W/m2)
               ok
11. mean water vapor density (g/m3)*100
               divide by 100 for g/m3
12. mean mV reading from thermistor in 207 probe
               clow
13. mean mV reading from shallow ice thermistor
               clow
14. mean mV reading from deep ice thermistor
               clow
15. sample of battery voltage
               o1
16. mean horizontal wind speed (m/s)
               ok
17. resultant mean wind speed (m/s)
               o1
18. resultant mean wind direction (degrees from north)
               ok
19. standard deviation of wind direction (degrees)
               ok
20. maximum wind speed (m/s)
               ok, flag
21. minimum wind speed (m/s)
               ok, flag

22. maximum mV from thermistor in 207 probe
      clow
23. minimum mV from thermistor in 207 probe
      clow
*   24. sample of thermal infrared (C)
      bad

Notes: :1) No thermal infrared sensor wired. Ignore # 24
              2) No purgeometer wired. Ignore # 5

Filename: tar95003.prn
Station: Taylor Glacier Station
Date of Establishment: Nov 21, 1994 by Peter Doran
Author of this report: Peter Doran
File Period: Nov 17/95 (321) @ 12:20
Sampling Frequency: every 30 secs.
Averaging and Output Interval: every 20 minutes
Program name: tar945-2

          1. array I.D.
               o1
          2. year
               ok
          3. date
               ok
          4. time
               ok
*   5. mean I.R. (W/m2)
               bad
          6. mean 207 probe temp calculated from mV output using Steinhart-Hart equation and used in R.H. calculation
               (C)
               o1
          7. mean 207 probe temp. using Campbell command 11 (C)
               o1
          8. mean R.H. (%)
               ok
          9. mean solar flux coming down (W/m2)
               ok
          10. mean solar flux coming up (W/m2)
               ok
          11. mean water vapor density (g/m3)*100
               divide by 100 for g/m3
          12. mean mV reading from thermistor in 207 probe
               clow
          13. mean mV reading from shallow ice thermistor
               clow
          14. mean mV reading from deep ice thermistor
               clow
          15. sample of battery voltage
               o1
          16. mean horizontal wind speed (m/s)
               ok
          17. resultant mean wind speed (m/s)
               o1
          18. resultant mean wind direction (degrees from north)
               ok
          19. standard deviation of wind direction (degrees)
               ok
          20. maximum wind speed (m/s)
               ok, flag
          21. minimum wind speed (m/s)
               ok, flag

22. maximum mV from thermistor in 207 probe
    clow
23. minimum mV from thermistor in 207 probe
    clow
*   24. sample of thermal infrared (C)
    bad

Notes: :1) No thermal infrared sensor wired. Ignore # 24
           2) No purgeometer wired. Ignore # 5

1. array I.D.
   o1
2. day
   ok
3. time
   ok
4. mean air temp. @ 3 meters
   convert to mV, then Clow
5. mean R.H. @ 3 meters (%)
   ok
* 6. mean solar flux coming down (W/m2)
   multiply by 2
* 7. mean solar flux going up (W/m2)
   multiply by 2
8. mean horizontal wind speed (m/s)
   ok
9. resultant mean wind speed (m/s)
   o1
10. resultant mean wind direction (degrees from north)
   ok
11. standard deviation of wind direction (degrees)
   ok
12. maximum wind speed (m/s)
   ok
13. minimum wind speed (m/s)
   ok
14. mean air temp. @ 1 m (C)
   convert to mv, then clow
15. mean RH @ 1 m (%)
   convert to mv, then clow
* 16. mean incoming IR pyrgeometer output (pins A-B) (W/m2)
   bad
* 17. mean incoming IR hemisphere temp. (pins A-C) (mv)
   bad
* 18. mean incoming IR thermopile output (pins F-G)(W/m2)
   bad
* 19. mean incoming IR case temp. (pins E-D)(mv)
   bad
* 20. mean thermal infrared-skin temperature(C)
   bad
* 21. mean ice temp. @ 20 cm (C)

flag; convert to mv, then clow
* 22. mean ice temp. @ 1 m (C)
        bad
* 23. mean dTemp 1-3 meters (from t.c. wire) (C)
        bad
24. sample of battery voltage
        o1

*Notes:
1.   Station powered down b/t 12:40 and 13:49 on Nov 17/95; results in data gap.
2.   Pyrgeometer not wired; ignore # 16, 17, 18, 19
3.   Thermal Infrared not wired; ignore # 20
4.   Exact depth position of ice thermistors unknown (#21 & 22).
5.   Ice temp. @ 1 meter: improper input channel specified in program: ignore #22
6.   Thermocouple not wired; ignore #23

Filename: tar95602.dat
Station: Taylor Glacier Station
Date of Establishment: Nov 21, 1994 by Peter Doran
Author of this report: Gayle Dana
File Period: Nov 28/95 (332) @ 10:45 to Dec 1/95 (335) @ 09:45
Sampling Frequency: every 1 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: tar956-2

        1. array I.D.
                o1
        2. day
                ok
        3. time
                ok
        4. mean air temp. @ 3 meters
                convert to mV, then Clow
        5. mean R.H. @ 3 meters (%)
                ok
*   6. mean solar flux coming down (W/m2)
                multiply by 2
*   7. mean solar flux going up (W/m2)
                multiply by 2
        8. mean horizontal wind speed (m/s)
                ok
        9. resultant mean wind speed (m/s)
                o1
        10. resultant mean wind direction (degrees from north)
                ok
        11. standard deviation of wind direction (degrees)
                ok
        12. maximum wind speed (m/s)
                ok
        13. minimum wind speed (m/s)
                ok
        14. mean air temp. @ 1 m (C)
                convert to mv, then clow
        15. mean RH @ 1 m (%)
                convert to mv, then clow
*   16. mean incoming IR pyrgeometer output (pins A-B) (W/m2)
                bad
*   17. mean incoming IR hemisphere temp. (pins A-C) (mv)
                bad
*   18. mean incoming IR thermopile output (pins F-G)(W/m2)
                bad
*   19. mean incoming IR case temp. (pins E-D)(mv)
                bad
*   20. mean thermal infrared-skin temperature(C)
                bad
*   21. mean ice temp. @ 20 cm (C)

          flag; convert to mv, then clow
*   22. mean ice temp. @ 1 m (C)
          flag; convert to mv, then clow
*   23. mean dTemp 1-3 meters (from t.c. wire) (C)
          bad
       24. sample of battery voltage
          o1

*Notes:
1.   Pyrgeometer not wired; ignore # 16, 17, 18, 19
2.   Thermal Infrared not wired; ignore # 20
3.   Exact depth position of ice thermistors unknown (#21 & 22).
4.   Thermocouple not wired; ignore #23

Filename: tar95603.dat
Station: Taylor Glacier Station
Date of Establishment: Nov 21, 1994 by Peter Doran
Author of this report: Gayle Dana
File Period: Dec 1/95 (335) @ 10:00 to Dec 1/95 (335) @ 10:30
Sampling Frequency: every 1 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: tar956-2

            1. array I.D.
                o1
            2. day
                ok
            3. time
                ok
            4. mean air temp. @ 3 meters
                convert to mV, then Clow
            5. mean R.H. @ 3 meters (%)
                ok
*   6. mean solar flux coming down (W/m2)
                bad
*   7. mean solar flux going up (W/m2)
                bad
            8. mean horizontal wind speed (m/s)
                ok
            9. resultant mean wind speed (m/s)
                o1
            10. resultant mean wind direction (degrees from north)
                ok
            11. standard deviation of wind direction (degrees)
                ok
            12. maximum wind speed (m/s)
                ok
            13. minimum wind speed (m/s)
                ok
            14. mean air temp. @ 1 m (C)
                convert to mv, then clow
            15. mean RH @ 1 m (%)
                convert to mv, then clow
*   16. mean incoming IR pyrgeometer output (pins A-B) (W/m2)
                bad
*   17. mean incoming IR hemisphere temp. (pins A-C) (mv)
                bad
*   18. mean incoming IR thermopile output (pins F-G)(W/m2)
                bad
*   19. mean incoming IR case temp. (pins E-D)(mv)
                bad
*   20. mean thermal infrared-skin temperature(C)
                bad
*   21. mean ice temp. @ 20 cm (C)

               flag; convert to mv, then clow
*   22. mean ice temp. @ 1 m (C)
               flag; convert to mv, then clow
*   23. mean dTemp 1-3 meters (from t.c. wire) (C)
               bad
         24. sample of battery voltage
               o1

*Notes:
1.   Pyranometers (up and down) not wired; Eppleys pyranometers being installed; ignore # 6 & 7
2.   Pyrgeometer not wired; ignore # 16, 17, 18, 19
3.   Thermal Infrared not wired; ignore # 20
4.   Exact depth position of ice thermistors unknown (#21 & 22).
5.   Thermocouple not wired; ignore #23

Filename: tar95604.dat
Station: Taylor Glacier Station
Date of Establishment: Nov 21, 1994 by Peter Doran
Author of this report: Gayle Dana
File Period: Dec 1/95 (335) @ 10:45 to Dec 19/95 (353) @ 16:15
Sampling Frequency: every 1 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: tar956-2

        1. array I.D.
             o1
        2. day
             ok
        3. time
             ok
        4. mean air temp. @ 3 meters
             convert to mV, then Clow
        5. mean R.H. @ 3 meters (%)
             ok
        6. mean solar flux coming down (W/m2)
             divide by 100; multiply by 116.01
        7. mean solar flux going up (W/m2)
             divide by 100; multiply by 116.96
        8. mean horizontal wind speed (m/s)
             ok
        9. resultant mean wind speed (m/s)
             o1
        10. resultant mean wind direction (degrees from north)
             ok
        11. standard deviation of wind direction (degrees)
             ok
        12. maximum wind speed (m/s)
             ok
        13. minimum wind speed (m/s)
             ok
        14. mean air temp. @ 1 m (C)
             convert to mv, then clow
        15. mean RH @ 1 m (%)
             convert to mv, then clow
*   16. mean incoming IR pyrgeometer output (pins A-B) (W/m2)
             bad
*   17. mean incoming IR hemisphere temp. (pins A-C) (mv)
             bad
*   18. mean incoming IR thermopile output (pins F-G)(W/m2)
             bad
*   19. mean incoming IR case temp. (pins E-D)(mv)
             bad
*   20. mean thermal infrared-skin temperature(C)
             bad
*   21. mean ice temp. @ 20 cm (C)

         flag; convert to mv, then clow
*   22. mean ice temp. @ 1 m (C)
         flag; convert to mv, then clow
*   23. mean dTemp 1-3 meters (from t.c. wire) (C)
         bad
      24. sample of battery voltage
         o1

*Notes:

1.   Pyrgeometer not wired; ignore # 16, 17, 18, 19
2.   Thermal Infrared not wired; ignore # 20
3.   Exact depth position of ice thermistors unknown (#21 & 22).
4.   Thermocouple not wired; ignore #23

Filename: tar95605.dat
Station: Taylor Glacier Station
Date of Establishment: Nov 21, 1994 by Peter Doran
Author of this report: Gayle Dana
File Period: Dec 19/95 (353) @ 16:30 to Dec 19/95 (353) @ 17:45
Sampling Frequency: every 1 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: tar956-2

        1. array I.D.
                o1
        2. day
                ok
        3. time
                ok
        4. mean air temp. @ 3 meters
                convert to mV, then Clow
        5. mean R.H. @ 3 meters (%)
                ok
        6. mean solar flux coming down (W/m2)
                divide by 100; multiply by 116.01
        7. mean solar flux going up (W/m2)
                divide by 100; multiply by 116.96
        8. mean horizontal wind speed (m/s)
                ok
        9. resultant mean wind speed (m/s)
                o1
        10. resultant mean wind direction (degrees from north)
                ok
        11. standard deviation of wind direction (degrees)
                ok
        12. maximum wind speed (m/s)
                ok
        13. minimum wind speed (m/s)
                ok
        14. mean air temp. @ 1 m (C)
                convert to mv, then clow
        15. mean RH @ 1 m (%)
                convert to mv, then clow
*   16. mean incoming IR pyrgeometer output (pins A-B) (W/m2)
                bad
*   17. mean incoming IR hemisphere temp. (pins A-C) (mv)
                bad
*   18. mean incoming IR thermopile output (pins F-G)(W/m2)
                bad
*   19. mean incoming IR case temp. (pins E-D)(mv)
                bad
*   20. mean thermal infrared-skin temperature(C)
                bad
*   21. mean ice temp. @ 20 cm (C)

              flag; convert to mv, then clow
*   22. mean ice temp. @ 1 m (C)
              flag; convert to mv, then clow
*   23. mean dTemp 1-3 meters (from t.c. wire) (C)
              bad
          24. sample of battery voltage
              o1

*Notes:
1.   Pyrgeometer not wired; ignore # 16, 17, 18, 19
2.   Thermal Infrared not wired; ignore # 20
3.   Exact depth position of ice thermistors unknown (#21 & 22).
4.   Thermocouple not wired; ignore #23

Filename: tar95606.dat
Station: Taylor Glacier Station
Date of Establishment: Nov 21, 1994 by Peter Doran
Author of this report: Gayle Dana
*File Period: Dec 19/95 (353) @ 19:00 (one line of data only)
Sampling Frequency: every 1 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: tar956-3

        1. array I.D.
                o1
        2. day
                ok
        3. time
                ok
        4. mean air temp. @ 3 meters
                convert to mV, then Clow
        5. mean R.H. @ 3 meters (%)
                ok
        6. mean solar flux coming down (W/m2)
                divide by 100; multiply by 116.01
        7. mean solar flux going up (W/m2)
                divide by 100; multiply by 116.96
        8. mean horizontal wind speed (m/s)
                ok
        9. resultant mean wind speed (m/s)
                o1
        10. resultant mean wind direction (degrees from north)
                ok
        11. standard deviation of wind direction (degrees)
                ok
        12. maximum wind speed (m/s)
                ok
        13. minimum wind speed (m/s)
                ok
        14. mean air temp. @ 1 m (C)
                convert to mv, then clow
        15. mean RH @ 1 m (%)
                convert to mv, then clow
        16. mean infrared pyrgeometer output (pins A-B)) (W/m2)
                divide by 250; multiply by 248.76
        17. mean incoming IR hemisphere temp. (pins A-C) (mv)
                Eppley
        18. mean incoming IR thermopile output (pins F-G)(W/m2)
                Eppley
        19. mean incoming IR case temp. (pins E-D)(mv)
                Eppley
        20. mean thermal infrared-skin temperature(C)
                Eppley
*   21. mean ice temp. @ 20 cm (C)

            flag; convert to mv, then clow
*   22. mean ice temp. @ 1 m (C)
            flag; convert to mv, then clow
*   23. mean dTemp 1-3 meters (from t.c. wire) (C)
            bad
       24. sample of battery voltage
            o1

*Notes:
1.   Station powered down b/t ~17:50 and 18:50 on Dec 19/95; results in data gap
2.   Thermal Infrared not wired; ignore # 20
3.   Exact depth position of ice thermistors unknown (#21 & 22).
4.   Thermocouple not wired; ignore #23

Filename: tar95607.dat
Station: Taylor Glacier Station
Date of Establishment: Nov 21, 1994 by Peter Doran
Author of this report: Gayle Dana
File Period: Dec 19/95 (353) @ 19:15 to Jan 25/96 (25) @ 0930
Sampling Frequency: every 1 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: tar956-3

          1. array I.D.
                    o1
          2. day
                    ok
          3. time
                    ok
          4. mean air temp. @ 3 meters
                    convert to mV, then Clow
          5. mean R.H. @ 3 meters (%)
                    ok
          6. mean solar flux coming down (W/m2)
                    divide by 100; multiply by 116.01
          7. mean solar flux going up (W/m2)
                    divide by 100; multiply by 116.96
          8. mean horizontal wind speed (m/s)
                    ok
          9. resultant mean wind speed (m/s)
                    o1
          10. resultant mean wind direction (degrees from north)
                    flag
          11. standard deviation of wind direction (degrees)
                    ok
          12. maximum wind speed (m/s)
                    ok
          13. minimum wind speed (m/s)
                    ok
          14. mean air temp. @ 1 m (C)
                    convert to mv, then clow
          15. mean RH @ 1 m (%)
                    convert to mv, then clow
          16. mean incoming IR pyrgeometer output (pins A-B) (W/m2)
                    divide by 250; multiply by 248.76
          17. mean incoming IR hemisphere temp. (pins A-C) (mv)
                    Eppley
          18. mean incoming IR thermopile output (pins F-G)(W/m2)
                    Eppley
          19. mean incoming IR case temp. (pins E-D)(mv)
                    Eppley
*   20. mean thermal infrared-skin temperature(C)
                    bad
*   21. mean ice temp. @ 20 cm (C)

flag; convert to mv, then clow

*   22. mean ice temp. @ 1 m (C)

                 flag; convert to mv, then clow

*   23. mean dTemp 1-3 meters (from t.c. wire) (C)

                 bad

        24. sample of battery voltage

                 o1

*Notes:

1.   Thermal Infrared not wired; ignore # 20
2.   Exact depth position of ice thermistors unknown (#21 & 22).
3.   Thermocouple not wired; ignore #23
4.   Diode wiring and 2nd battery installed.
5.   Heads up for 1996 winter data: station powered down between 09:55 and 10:20 on Jan 25/96 to install battery diodes.

Filename: vaa95001.prn
Station: Lake Vanda met station
Date of Establishment: November 24, 1994 by Peter Doran
Author of this report: Peter Doran
File Period: Jan 20/95 (20) @ 17:00 to Nov 21/95 (325) @ 11:00
Sampling Frequency: every 30 secs.
Averaging and Output Interval: every hour
Program Name: vaa945-2

    1. array I.D.
        o1
    2. year
        ok
    3. day
        ok
    4. time
        ok
    5. mean P.A.R. (micromols/s/m2)
        ok
    6. mean 207 probe temp calculated from mV output using Steinhart-Hart equation and used in R.H. calculation
        (C)
        o1
    7. mean 207 probe temp. using Campbell command 11 (C)
        o1
    8. mean R.H. (%)
        ok
    9. mean solar flux coming down (W/m2)
        ok
    10. mean solar flux going up (W/m2)
        ok
    11. mean mV reading from thermistor 5 cm in soil
        clow
    12. mean water vapor density (g/m3)*100
        divide by 100 for g/m3
    13. mean mV reading from surface soil thermistor
        clow
    14. mean mV reading from thermistor in 207 probe
        clow
    15. mean mV reading from thermistor 10 cm in soil
        clow
    16. sample of battery voltage
        o1
    17. mean horizontal wind speed (m/s)
        ok, flag
    18. resultant mean wind speed (m/s)
        o1
    19. resultant mean wind direction (degrees from north)
        ok
    20. standard deviation of wind direction (degrees)
        ok
    21. maximum wind speed (m/s)
        ok, flag

22. minimum wind speed (m/s)

       ok, flag
23. maximum mV from thermistor in 207 probe
       clow
24. minimum mV from thermistor in 207 probe.
       clow

*notes: 1) Moved position of river thermistor to closer location on Jan 20.
        2) Keypad changes made to vaa945-1 did not get transfered to .doc file. Therefore, new file loaded with claus that zeros wind speeds < 0.9 m/s. Data should be flagged. This will continue through winters data.

Filename: vaa95601.dat
Station: Lake Vanda met station
Date of Establishment: November 24, 1994 by Peter Doran
Author of this report: Gayle Dana
File Period: Nov 21/95 (325) @ 11:30 to Jan 23/96 (23) @ 13:00
Sampling Frequency: every 1 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 min
Program Name: vaa956-1

      1. array I.D.
          o1
      2. day
          ok
      3. time
          ok
      4. mean air temp. @ 3 meters
          convert to mV, then Clow
      5. mean R.H. @ 3 meters (%)
          ok
      6. mean solar flux coming down (W/m2)
          ok
      7. mean solar flux going up (W/m2)
          ok
      8. mean horizontal wind speed (m/s)
          ok
      9. resultant mean wind speed (m/s)
          o1
      10. resultant mean wind direction (degrees from north)
          ok
      11. standard deviation of wind direction (degrees)
          ok
      12. maximum wind speed (m/s)
          ok
      13. minimum wind speed (m/s)
          ok
      14. mean P.A.R. (micromols/s/m2)
          divide by 200, multiply by 282.53
      15. mean soil temperature @ 0 cm in soil (C)
          convert to mV, then Clow
      16. mean soil temperature @ 10 cm in soil (C)
          convert to mV, then clow
      17. mean Onyx River temperature (C)
          convert to mv, then clow
      18. sample of battery voltage
          o1

Notes:

1) 2nd battery and diode wiring installed at end of file period.
2) Heads up for overwinter data: station powered down between 13:25 and 14:10 hours on 1/23/96 to install diodes.
3) RH Campbell: 21%; RH Sling Pyschrometer: 28% on 1/23/96

Filename: via95601.dat
Station: Lake Vida met station
Date of Establishment: November 24, 1995 by Peter Doran
Author of this report: Gayle Dana
File Period: Nov 24/95 (328) @ 15:00 to Jan 23/96 (23) @ 15:00
Sampling Frequency: every 1 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 min
Program Name: via956-1

      1. array I.D.
          o1
      2. day
          ok
      3. time
          ok
      4. mean air temp. @ 3 meters
          convert to mV, then Clow
      5. mean R.H. @ 3 meters (%)
          ok
      6. mean solar flux coming down (W/m2)
          ok
      7. mean solar flux going up (W/m2)
          ok
      8. mean horizontal wind speed (m/s)
          ok
      9. resultant mean wind speed (m/s)
          o1
      10. resultant mean wind direction (degrees from north)
          ok
      11. standard deviation of wind direction (degrees)
          ok
      12. maximum wind speed (m/s)
          ok
      13. minimum wind speed (m/s)
          ok
      14. mean P.A.R. (micromols/s/m2)
          divide by 200, multiply by 291.00
      15. mean soil temperature @ 0 cm in soil (C)
          convert to mV, then Clow
      16. mean soil temperature @ 5 cm in soil (C)
          convert to mV, then clow
      17. mean soil temperature @ 10 cm in soil (C)
          convert to mV, then clow
      18. sample of battery voltage
          o1

Notes:

1) 2nd battery and diode wiring installed at end of file period.
2) Solar panel was not connected when we arrived on 1/23/96 visit; it is now connected.