File description and task list for 1996-97 LTER Met Files: o1=omit from level 1, ok= no changes to get to level 1, rclow= reverse temperatures to mV and apply clow subroutine to mV values using Steinhart-Hart equation, bad= normally would be included in level 1 but number is bogus, flag= reasonable number but needs a note attached concerning its collection:

No major changes were made from last season to the programs!!:

Array I.D. meaning:

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 East Submerged	
15 = Canada Gl. (with Eddy Sensors)	
16 = Bonney West Submerged	

Hardware Notes:

1) Continued service schedule.

Filename: boy97001.dat
Station: Lake Bonney met station
Date of Establishment: November 24, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: Jan 28/97 (28) @ 1115 to Aug 12/97 (224) @ 945
Sampling Frequency: wind speed every 1 sec, other 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
   rclow
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)
    rclow
16. mean soil temperature @ 5 cm in soil (C)
    rclow
17. mean soil temperature @ 10 cm in soil (C)
    rclow
18. sample precipitation (mm)
    ok
19. sample of battery voltage
    o1

Filename: boy97002.dat
Station: Lake Bonney met station
Date of Establishment: November 24, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: Aug 12/97 (224) @ 1000 to Nov 18/97 (322) @ 945
Sampling Frequency: wind speed every 1 sec, other 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
   rclow
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)
    rclow
16. mean soil temperature @ 5 cm in soil (C)
    rclow
17. mean soil temperature @ 10 cm in soil (C)
    rclow
18. sample precipitation (mm)
    ok
19. sample of battery voltage
    o1

notes: 1. Station down for 1.5 hours at end of this file for servicing
2. New program (sig 50130) loaded that changes wind speed interval from 1 sec to 4 sec

Filename: boy97801.dat
Station: Lake Bonney met station
Date of Establishment: November 24, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: Nov 18/97 (322) @ 1115
Sampling Frequency: wind speed every 4 sec, other every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: boy956-1 with change from 1 to 4 sec wind sampling?

1. array I.D.
   o1
2. day
   ok
3. time
   ok
4. mean air temp. @ 3 meters
   rclow
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 306.03
15. mean soil temperature @ 0 cm in soil (C)
    rclow
16. mean soil temperature @ 5 cm in soil (C)
    rclow
17. mean soil temperature @ 10 cm in soil (C)
    rclow
18. sample precipitation (mm)
    ok
19. sample of battery voltage
    o1

notes: 1. Station down for 1.5 hours at beginning of this file for servicing.
2. New program (sig 50130) loaded that changes wind speed interval from 1 sec to 4 sec
3. Old upward pyro (PY23277) and quantum (Q19469) swapped for new (PY28347 and Q23201)

Filename: boy97802.dat
Station: Lake Bonney met station
Date of Establishment: November 24, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: Nov 18/97 (322) @ 1130 to Nov 18/97 (322) @ 1145
Sampling Frequency: wind speed every 4 sec, other every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: boy956-1 with change from 1 to 4 sec wind sampling?

1. array I.D.
   o1
2. day
   ok
3. time
   ok
4. mean air temp. @ 3 meters
   rclow
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 306.03
15. mean soil temperature @ 0 cm in soil (C)
    rclow
16. mean soil temperature @ 5 cm in soil (C)
    rclow
17. mean soil temperature @ 10 cm in soil (C)
    rclow
18. sample precipitation (mm)
    ok
19. sample of battery voltage
    o1

notes:

Filename: boy97803.dat
Station: Lake Bonney met station
Date of Establishment: November 24, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: Nov 18/97 (322) @ 1200 to Nov 28/97 (332) @ 1300
Sampling Frequency: wind speed every 4 sec, other every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: boy956-1 with change from 1 to 4 sec wind sampling?

1. array I.D.
   o1
2. day
   ok
3. time
   ok
4. mean air temp. @ 3 meters
   rclow
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 306.03
15. mean soil temperature @ 0 cm in soil (C)
    rclow
16. mean soil temperature @ 5 cm in soil (C)
    rclow
17. mean soil temperature @ 10 cm in soil (C)
    rclow
18. sample precipitation (mm)
    ok
19. sample of battery voltage
    o1

notes: 1. Program change at end of this file
2. Station down for 1.5 hr servicing at end of file
3. last two arrays questionable
4. New RH chip at start of this file

Filename: boy97804.dat
Station: Lake Bonney met station
Date of Establishment: November 24, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: Nov 28/97 (332) @ 1430 to Jan 6/98 (6) @ 1700
Sampling Frequency: wind speed every 4 sec, other every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: boy978-1 or boy978-2

Output Array Definition:

1. array I.D.
   o1
2. day
   ok
3. time
   ok
4. mean air temp. @ 3 meters (C)
   rclow
5. mean RH @ 3 meters (C)
   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
    ok
11. standard deviation of wind direction
    o1
12. maximum wind speed (m/s)
    ok
13. minimum wind speed (m/s)
    ok
14. mean up pyrgeo, rad. comp.(A-B) (W/m2)
    bad
15. mean up pyrgeo hemisphere temp (F-G)
    bad
16. mean up pyrgeo thermopile (A-C)
    bad
17. mean up pyrgeo case temp (E-D)
    bad
18. ??tir or soil t1
    bad
19. ??soil t1 or soil t2
    bad
20. ??soil t2 or dup max speed
    bad
21. mean dTemp 1-3 meters (from t.c. wire)(C)
    bad
22. mean down pyrgeo, rad. comp. (A-B) (W/m2)

bad

23 mean down pyrgeo hemisphere temp (F-G)

bad

24 mean down pyrgeo thermopile (A-C)

bad

25 mean down pyrgeo case temp (E-D)

bad

26. sample battery voltage

o1

notes: 1. First array questionable

Filename: boy97805.dat
Station: Lake Bonney met station
Date of Establishment: November 24, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: Jan 6/98 (6) @ 1715 to Jan 15/98 (15) @900
Sampling Frequency: wind speed every 4 sec, other every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: boy978-1 or boy978-2

Output Array Definition:

1. array I.D.
   o1
2. day
   ok
3. time
   ok
4. mean air temp. @ 3 meters (C)
   rclow
5. mean RH @ 3 meters (C)
   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
    ok
11. standard deviation of wind direction
    o1
12. maximum wind speed (m/s)
    ok
13. minimum wind speed (m/s)
    ok
14. mean up pyrgeo, rad. comp.(A-B) (W/m2)
    bad
15. mean up pyrgeo hemisphere temp (F-G)
    bad
16. mean up pyrgeo thermopile (A-C)
    bad
17. mean up pyrgeo case temp (E-D)
    bad
18. ??tir or soil t1
    bad
19. ??soil t1 or soil t2
    bad
20. ??soil t2 or dup max speed
    bad
21. mean dTemp 1-3 meters (from t.c. wire)(C)
    bad
22. mean down pyrgeo, rad. comp. (A-B) (W/m2)

bad

23 mean down pyrgeo hemisphere temp (F-G)

bad

24 mean down pyrgeo thermopile (A-C)

bad

25 mean down pyrgeo case temp (E-D)

bad

26. sample battery voltage

o1

notes: 1. New program loaded at end of this file that should fix all that ails this station including the addition of PAR

2. IR will be fixed once we know which serial numbers are which after getting the information from the field

Filename: brh97f01.prn
Station: Lake Brownworth met station
Date of Establishment: November 13, 1996 by Peter Doran and D.J. Osborne
Author of this report: Peter Doran
File Period: Jan 25/97 (25) @ 1030 to Aug 20/97 (232) @ 1000
Sampling Frequency: wind speed every 1 sec.; others: every 30 secs.
Averaging and Output Interval: every 15 min
Program Name: brh967-1

1. array I.D.
   o1
2. day
   subtract 1
3. time
   ok
4. mean air temp. @ 3 meters
   rclow
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 342.07
15. mean soil temperature @ 0 cm in soil (C)
    rclow
16. mean soil temperature @ 5 cm in soil (C)
    Rclow
17. mean soil temperature @ 10 cm in soil (C)
    rclow
18. sample of battery voltage
    o1

Notes:

Filename: brh97f02.prn
Station: Lake Brownworth met station
Date of Establishment: November 13, 1996 by Peter Doran and D.J. Osborne
Author of this report: Peter Doran
File Period: Aug 20/97 (232) @ 1015 to Nov 26/97 (330) @ 945
Sampling Frequency: wind speed every 1 sec.; others: every 30 secs.
Averaging and Output Interval: every 15 min
Program Name: brh967-1

1. array I.D.
   o1
2. day
   subtract 1
3. time
   ok
4. mean air temp. @ 3 meters
   rclow
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 342.07
15. mean soil temperature @ 0 cm in soil (C)
    rclow
16. mean soil temperature @ 5 cm in soil (C)
    Rclow
17. mean soil temperature @ 10 cm in soil (C)
    rclow
18. sample of battery voltage
    o1

Notes: 1. Day is wrong. Actually 329 at end of file

Filename: brh97801.dat
Station: Lake Brownworth met station
Date of Establishment: November 13, 1996 by Peter Doran and D.J. Osborne
Author of this report: Peter Doran
File Period: Nov 26/97 (329) @ 1045 to Jan 13/98 (13) @ 1100
Sampling Frequency: wind speed every 1 sec.; others: every 30 secs.
Averaging and Output Interval: every 15 min
Program Name: brh967-1

1. array I.D.
   o1
2. day
   ok
3. time
   ok
4. mean air temp. @ 3 meters
   rclow
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 342.07
15. mean soil temperature @ 0 cm in soil (C)
    rclow
16. mean soil temperature @ 5 cm in soil (C)
    Rclow
17. mean soil temperature @ 10 cm in soil (C)
    rclow
18. sample of battery voltage
    o1

Notes: 1. wind speed sampling changed from 1 sec to 4 sec at the end of this file

Filename: caa97801.dat
File Period: Jan 12/98 (12) @ 21:15 to Jan 13/98 (13) @ 06:15
Station: Canada Glacier met station - CALIBRATION RUN IN CAMP
Date of Establishment: Nov 20, 1995 by Karen Lewis
Reinstalled on glacier: Jan 13, 1998 by Karen Lewis
Author of this report: Karen Lewis
Sampling Frequency: every 30 seconds
Averaging and Output Interval: every 15 minutes
Program name: caa978-2

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/m^2)
   ok
7. mean solar flux going up (W/m^2)
   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)
    bad
14. mean barometric pressure (mbar)
    ok
15. mean net radiation (W/m^2)
    ok
16. mean surface temperature from IRT (C)
    ok
17. sample battery voltage
    o1

*Notes:

1. Minimum windspeed wrong.
2. Running on local time.

Filename: caa97802.dat
File Period: Jan 13/98 (13) @ 11:30 to JD 16/98 (16) 15:45
Station: Canada Glacier met station
Date of Establishment: Nov 20, 1995 by Karen Lewis
Reinstalled on glacier: Jan 13, 1998 by Karen Lewis
Author of this report: Karen Lewis
Sampling Frequency: every 30 seconds
Averaging and Output Interval: every 15 minutes
Program name: caa978-2

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/m^2)
   ok
7. mean solar flux going up (W/m^2)
   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)
    bad
14. mean barometric pressure (mbar)
    ok
15. mean net radiation (W/m^2)
    ok
16. mean surface temperature from IRT (C)
    ok
17. sample battery voltage
    o1

Notes:

1. Wind sensor set to approx. north. Didn't have compass and wasn't at station at 2pm.
2. Minimum windspeed wrong.
3. Running on local time.

Filename: caa97803.dat
File Period: Jan 16/98 (16) @ 16:10 to JD 30/98 (30) 10:30
Station: Canada Glacier met station
Date of Establishment: Nov 20, 1995 by Karen Lewis
Reinstalled on glacier: Jan 13, 1998 by Karen Lewis
Author of this report: Karen Lewis
Sampling Frequency: every 30 seconds
Averaging and Output Interval: every 10 minutes
Program name: caa978-2

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/m^2)
   ok
7. mean solar flux going up (W/m^2)
   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 barometric pressure (mbar)
    ok
15. mean net radiation (W/m^2)
    ok
16. mean surface temperature from IRT (C)
    ok
17. sample battery voltage
    o1

Notes:
1. Wind sensor set to approx. north. Didn't have compass and wasn't at station at 2pm.
2. Running on local time.

Filename: co774b~1.prn
Station: Commonwealth Glacier Station
Date of Establishment: Nov 22, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: May 24/97 (144) @ 445 to Jun 19/97 (170) @ 1345
Sampling Frequency: wind 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
   rClow
5. mean R.H. @ 3 meters (%)
   ok
6. mean solar flux coming down (W/m2)
   divide by 100; multiply by 122.40
7. mean solar flux going up (W/m2)
   divide by 100; multiply by 119.62
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 288.18
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)
   bad

* 19. mean ice temp. @ 20 cm (C)
   flag; rclow

* 20. mean ice temp. @ 1 m (C)
   flag; rclow

* 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. Exact depth position of ice thermistors unknown (#19 and #20).
2. Thermocouple not wired; ignore #21
3. Everest thermal infrared sensor not wired (FS #18).
4. Missing lots of data before and after this file. Reason unknown.

Filename: coh97802.dat
Station: Commonwealth Glacier Station
Date of Establishment: Nov 22, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: Nov 25/97 (329) @ 1300 to Jan 16/98 (16) @ 945
Sampling Frequency: wind every 4 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: coh978-1

1. array I.D.
   o1
2. day
   ok
3. time
   ok
4. mean air temp. @ 3 meters
   rClow
5. mean R.H. @ 3 meters (%)
   ok
6. mean solar flux coming down (W/m2)
   divide by 100; multiply by 122.40
7. mean solar flux going up (W/m2)
   divide by 100; multiply by 119.62
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)
   divide by 250; multiply by 288.18
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)
   bad
* 19. mean ice temp. @ 20 cm (C)
   flag; rclow
* 20. mean ice temp. @ 1 m (C)
   flag; rclow
* 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. Exact depth position of ice thermistors unknown (#19 and #20).
2. Thermocouple not wired; ignore #21
3. Everest thermal infrared sensor not wired (FS #18).
4. Wind speed changed from 1 sec to 4 sec at start of this file
5. File coh97801.dat is only one line without a proper time stamp, so it will be ignored in processing

Filename: exe97801.dat
Station: Explorer□s Cove Station
Date of Establishment: Nov 21, 1997 by Peter Doran, D.J. Osborne and Keith Sauter
Author of this report: Peter Doran
File Period: Nov 21/97 (325) @ 1100
Sampling Frequency: wind every 4 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: exe978-1

Output Array Definition:
1. array I.D.
   o1
2. day
   ok
3. time
   ok
4. mean air temp. @ 3 meters (C)
   rclow
5. mean RH @ 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
   ok
11. standard deviation of wind direction
   o1
12. maximum wind speed (m/s)
   ok
13. minimum wind speed (m/s)
   ok
14. mean P.A.R. (micromols/s/m2)
   bad
15. mean soil temperature @ 0 cm (C)
   rclow
16. mean soil temperature @ 5 cm (C)
   bad
17. mean soil temperature @ 10 cm (C)
   bad
18. sample precipitation (mm)
   bad
19. sample battery voltage
   o1

notes: 1. New station with all new sensors mounted on Clow□s old tripod
2. Precip gage trashed over winter, but still programmed into this new station.
3. Quantum and downward-pointing pyranometer serial numbers not recorded. Quantum can□t be corrected for another year.

Filename: exe97802.dat
Station: Explorer□s Cove Station
Date of Establishment: Nov 21, 1997 by Peter Doran, D.J. Osborne and Keith Sauter
Author of this report: Peter Doran
File Period: Nov 21/97 (325) @ 1130
Sampling Frequency: wind every 4 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: exe978-1

Output Array Definition:
1. array I.D.
    o1
2. day
    ok
3. time
    ok
4. mean air temp. @ 3 meters (C)
    rclow
5. mean RH @ 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
    ok
11. standard deviation of wind direction
    o1
12. maximum wind speed (m/s)
    ok
13. minimum wind speed (m/s)
    ok
14. mean P.A.R. (micromols/s/m2)
    bad
15. mean soil temperature @ 0 cm (C)
    rclow
16. mean soil temperature @ 5 cm (C)
    bad
17. mean soil temperature @ 10 cm (C)
    bad
18. sample precipitation (mm)
    bad
19. sample battery voltage
    o1

notes: 1. New station with all new sensors mounted on Clow□s old tripod
2. Precip gage trashed over winter, but still programmed into this new station.
3. Quantum and downward-pointing pyranometer serial numbers not recorded. Quantum can□t be corrected for another year.

Filename: exe97803.dat
Station: Explorer□s Cove Station
Date of Establishment: Nov 21, 1997 by Peter Doran, D.J. Osborne and Keith Sauter
Author of this report: Peter Doran
File Period: Nov 21/97 (325) @ 1145 to Jan 13/98 (13) @ 930
Sampling Frequency: wind every 4 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: exe978-1

Output Array Definition:
1. array I.D.
   o1
2. day
   ok
3. time
   ok
4. mean air temp. @ 3 meters (C)
   rclow
5. mean RH @ 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
   ok
11. standard deviation of wind direction
   o1
12. maximum wind speed (m/s)
   ok
13. minimum wind speed (m/s)
   ok
14. mean P.A.R. (micromols/s/m2)
   bad
15. mean soil temperature @ 0 cm (C)
   rclow
16. mean soil temperature @ 5 cm (C)
   bad
17. mean soil temperature @ 10 cm (C)
   bad
18. sample precipitation (mm)
   bad
19. sample battery voltage
   o1

notes: 1. New station with all new sensors mounted on Clow□s old tripod
2. Precip gage trashed over winter, but still programmed into this new station.
3. Quantum and downward-pointing pyranometer serial numbers not recorded. Quantum can□t be corrected for another year.

Filename: frl97001.dat
Station: Lake Fryxell met station
Date of Establishment: Jan 6, 1994 by Peter Doran
Author of this report: Peter Doran
File Period: Jan 28/97 (28) @ 1045 to Aug 23/97 (235) @ 1030
Sampling Frequency: every 1 sec; 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
   rClow
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)
   rClow
16. mean soil temperature @ 5 cm in soil (C)
   rClow
17. mean soil temperature @ 10 cm in soil (C)
   rClow
18. sample of battery voltage
   o1

notes:

Filename: frl97002.dat
Station: Lake Fryxell met station
Date of Establishment: Jan 6, 1994 by Peter Doran
Author of this report: Peter Doran
File Period: Nov 17/97 (321) @ 1815 to Nov 17/97 (321) @ 1830
Sampling Frequency: every 1 sec; 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
   rClow
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)
   rClow
16. mean soil temperature @ 5 cm in soil (C)
   rClow
17. mean soil temperature @ 10 cm in soil (C)
   rClow
18. sample of battery voltage
   o1

notes:

Filename: frl97003.dat
Station: Lake Fryxell met station
Date of Establishment: Jan 6, 1994 by Peter Doran
Author of this report: Peter Doran
File Period: Aug 23/97 (235) @ 1045 to Nov 18/97 (322) @ 1600
Sampling Frequency: every 1 sec; 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
   rClow
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)
    rClow
16. mean soil temperature @ 5 cm in soil (C)
    rClow
17. mean soil temperature @ 10 cm in soil (C)
    rClow
18. sample of battery voltage
    o1

notes:

Filename: frl97802.dat
Station: Lake Fryxell met station
Date of Establishment: Jan 6, 1994 by Peter Doran
Author of this report: Peter Doran
File Period: Nov 18/97 (322) @ 1715 to Nov 28/97 (332) @ 1445
Sampling Frequency: every 4 sec; 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
   rClow
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 285.45
15. mean soil temperature @ 0 cm in soil (C)
   rClow
16. mean soil temperature @ 5 cm in soil (C)
   rClow
17. mean soil temperature @ 10 cm in soil (C)
   rClow
18. sample of battery voltage
   o1

notes: 1. frl97801.dat is only 1 line long with an incorrect time stamp so it has been ignored.
2. new light sensors and RH chip at start of this file

Filename: frl97803.dat
Station: Lake Fryxell met station
Date of Establishment: Jan 6, 1994 by Peter Doran
Author of this report: Peter Doran
File Period: Nov 28/97 (332) @ 1500 to Nov 28/97 (332) @ 1515
Sampling Frequency: every 4 sec; 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
   rClow
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 285.45
15. mean soil temperature @ 0 cm in soil (C)
    rClow
16. mean soil temperature @ 5 cm in soil (C)
    rClow
17. mean soil temperature @ 10 cm in soil (C)
    rClow
18. sample of battery voltage
    o1

notes:

Filename: frl97804.dat
Station: Lake Fryxell met station
Date of Establishment: Jan 6, 1994 by Peter Doran
Author of this report: Peter Doran
File Period: Nov 28/97 (332) @ 1530 to Jan 19/98 (19) @ 915
Sampling Frequency: every 4 sec; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: frl978-1

1. array I.D.
   o1
2. day
   ok
3. time
   ok
4. mean air temp. @ 3 meters
   rClow
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 285.45
15. mean soil temperature @ 0 cm in soil (C)
    rClow
16. mean soil temperature @ 5 cm in soil (C)
    rClow
17. mean soil temperature @ 10 cm in soil (C)
    rClow
18. sample of battery voltage
    o1

notes:

Filename: frl97805.dat
Station: Lake Fryxell met station
Date of Establishment: Jan 6, 1994 by Peter Doran
Author of this report: Peter Doran
File Period: Jan 19/98 (19) @ 930 to Jan 19/98 (19) @ 1015
Sampling Frequency: every 4 sec; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: frl978-1

1. array I.D.
   o1
2. day
   ok
3. time
   ok
4. mean air temp. @ 3 meters
   rClow
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 285.45
15. mean soil temperature @ 0 cm in soil (C)
    rClow
16. mean soil temperature @ 5 cm in soil (C)
    rClow
17. mean soil temperature @ 10 cm in soil (C)
    rClow
18. sample of battery voltage
    o1

notes:

Filename: hod97f04.prn
Station: Howard Glacier Station
Date of Establishment: Nov 20, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: Jan 27/97 (27) @ 1245 to Jan 27/97 (27) @ 1300
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
   rclow
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; rclow
* 15. mean ice temp. @ ~1 m (C)
   flag; rclow
* 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: hod97f05.prn
Station: Howard Glacier Station
Date of Establishment: Nov 20, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: Jan 27/97 (27) @ 1330 to Aug 11/97 (223) @ 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
   rclow
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; rclow
* 15. mean ice temp. @ ~1 m (C)
   flag; rclow
* 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: hod97f07.prn
Station: Howard Glacier Station
Date of Establishment: Nov 20, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: Aug 11/97 (223) @ 30 to Nov 25/97 (329) @ 1330
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
   rclow
5. mean R.H. @ 3 meters (%)
   ok
6. mean solar flux coming down (W/m2)
   divide by 100; multiply by ??
7. mean solar flux going up (W/m2)
   divide by 100; multiply by ??
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; rclow
* 15. mean ice temp. @ ~1 m (C)
   flag; rclow
* 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. file hod97f06.prn is nonsense, one line with a duplicate time stamp
1. Exact depth position of ice thermistors unknown (#14 & 15).
2. Thermocouple not installed, ignore #16

Filename: hod97801.dat
Station: Howard Glacier Station
Date of Establishment: Nov 20, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: Nov 25/97 (329) @ 1445 to Jan 10/98 (10) @ 1430
Sampling Frequency: every 4 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: hod978-1

1. array I.D.
   o1
2. day
   ok
3. time
   ok
4. mean air temp. @ 3 meters
   rclow
5. mean R.H. @ 3 meters (%)
   ok
6. mean solar flux coming down (W/m2)
   divide by 100; multiply by ??
7. mean solar flux going up (W/m2)
   divide by 100; multiply by ??
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; rclow
* 15. mean ice temp. @ ~1 m (C)
   flag; rclow
* 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. New Eppleys at start of this file??
2. New wind monitor and RH at 1 & 3 m
3. Exact depth position of ice thermistors unknown (#14 & 15).
4. Thermocouple not installed, ignore #16

Filename: hoe97001.dat
Station: Lake Hoare met station
Date of Establishment: Dec 1, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: Jan 26/97 (26) @ 1445 to Aug 21/97 (233) @ 1030
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
   rclow
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 289.95
15. sample precipitation (mm)
    ok
16. sample station barometric pressure (mbar)
    ok
17. mean temperature difference 1-3 m (C)
    Multiply by -1
18. sample of battery voltage
    o1

*Notes:

Filename: hoe97002.dat
Station: Lake Hoare met station
Date of Establishment: Dec 1, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: Aug 21/97 (233) @ 1030 to Nov 14/97 (318) @ 1145
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
   rclow
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 289.95
15. sample precipitation (mm)
    ok
16. sample station barometric pressure (mbar)
    ok
17. mean temperature difference 1-3 m (C)
    Multiply by -1
18. sample of battery voltage
    o1

*Notes:

Filename: hoe97801.dat
Station: Lake Hoare met station
Date of Establishment: Dec 1, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: Nov 14/97 (318) @ 1230 to Nov 14/97 (318) @ 1700
Sampling Frequency: every 4 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program Name: hoe956-1 with change to 4 sec table 2

1. array I.D.
   o1
2. day
   ok
3. time
   ok
4. mean air temp. @ 3 meters
   rclow
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
15. sample precipitation (mm)
    ok
16. sample station barometric pressure (mbar)
    ok
17. mean temperature difference 1-3 m (C)
    Multiply by -1
18. sample of battery voltage
    o1

*Notes:
1. Wind interval changed from 1 to 4 secs
2. replaced wind monitor
3. new rh chip
4. all new light sensors

Filename: hoe97802.dat
Station: Lake Hoare met station
Date of Establishment: Dec 1, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: Nov 14/97 (318) @ 1715
Sampling Frequency: every 4 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program Name: hoe956-1 with change to 4 sec table 2

1. array I.D.
   o1
2. day
   ok
3. time
   ok
4. mean air temp. @ 3 meters
   rclow
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
15. sample precipitation (mm)
   ok
16. sample station barometric pressure (mbar)
   ok
17. mean temperature difference 1-3 m (C)
   Multiply by -1
18. sample of battery voltage
   o1

*Notes:

Filename: hoe97803.dat
Station: Lake Hoare met station
Date of Establishment: Dec 1, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: Nov 14/97 (318) @ 1730 to Nov 20/97 (324) @ 1330
Sampling Frequency: every 4 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program Name: hoe956-1 with change to 4 sec table 2

1. array I.D.
   o1
2. day
   ok
3. time
   ok
4. mean air temp. @ 3 meters
   rclow
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
15. sample precipitation (mm)
    ok
16. sample station barometric pressure (mbar)
    ok
17. mean temperature difference 1-3 m (C)
    Multiply by -1
18. sample of battery voltage
    o1

*Notes:

Filename: hoe97804.dat
Station: Lake Hoare met station
Date of Establishment: Dec 1, 1993 by Peter Doran
Author of this report: Peter Doran
File Period: Nov 20/97 (324) @ 1445 to Jan 20/98 (20) @ 1100
Sampling Frequency: every 4 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program Name: hoe956-1 with change to 4 sec table 2

1. array I.D.
   o1
2. day
   ok
3. time
   ok
4. mean air temp. @ 3 meters
   rclow
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 294.07
15. sample precipitation (mm)
    ok
16. sample station barometric pressure (mbar)
    ok
17. mean temperature difference 1-3 m (C)
    Multiply by -1
18. sample of battery voltage
    o1

*Notes:

Filename: tar97001.dat
Station: Taylor Glacier Station
Date of Establishment: Nov 21, 1994 by Peter Doran
Author of this report: Peter Doran
File Period: Jan 28/97 (28) @ 1300 to Jul 2/97 (183) @ 1600
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
   rclow
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)
   rclow
15. mean RH @ 1 m (%)
   rclow
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; rclow

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

Filename: tar97002.dat
Station: Taylor Glacier Station
Date of Establishment: Nov 21, 1994 by Peter Doran
Author of this report: Peter Doran
File Period: Jul 2/97 (183) @ 1600 to Nov 17/97 (321) @ 1145
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
   rclow
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)
   rclow
15. mean RH @ 1 m (%)
   rclow
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; rclow

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

Filename: tar97801.dat
Station: Taylor Glacier Station
Date of Establishment: Nov 21, 1994 by Peter Doran
Author of this report: Peter Doran
File Period: Nov 17/97 (321) @ 1530 to Nov 28/97 (332) @ 1030
Sampling Frequency: every 4 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: tar956-3 with a 4 sec wind interval

1. array I.D.
   o1
2. day
   ok
3. time
   ok
4. mean air temp. @ 3 meters
   rclow
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)
   rclow
15. mean RH @ 1 m (%)
   rclow

* 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; rclow

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

flag; rclow

* 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. change to 4 sec wind from 1 sec
5. removed pyrgeometer

Filename: tar97802.dat
Station: Taylor Glacier Station
Date of Establishment: Nov 21, 1994 by Peter Doran
Author of this report: Peter Doran
File Period: Nov 28/97 (332) @ 1100 to Jan 12/98 (12) @ 1645
Sampling Frequency: every 4 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 minutes
Program name: tar978-1

1. array I.D.
   o1
2. day
   ok
3. time
   ok
4. mean air temp. @ 3 meters
   rclow
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 ice temp. @ 20 cm (C)
   flag; rclow
* 15. mean ice temp. @ 1 m (C)
   flag; rclow
* 16. mean dTemp 1-3 meters (from t.c. wire) (C)
   bad
17. mean air temp. @ 1 m (C)
   rclow
18. mean RH @ 1 m (%)
   rclow
19. sample of battery voltage
   o1

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

Filename: vaa97f01.prn
Station: Lake Vanda met station
Date of Establishment: November 24, 1994 by Peter Doran
Author of this report: Peter Doran
File Period: Jan 28/97 (28) @ 1500 to Aug 23/97 (235) @ 1430
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
   rclow
5. mean R.H. @ 3 meters (%)
   ok
* 6. mean solar flux coming down (W/m2)
   bad after day 166
* 7. mean solar flux going up (W/m2)
   bad after day 166
* 8. mean horizontal wind speed (m/s)
   bad after day 166
* 9. resultant mean wind speed (m/s)
   bad after day 166
* 10. resultant mean wind direction (degrees from north)
   bad after day 166
* 11. standard deviation of wind direction (degrees)
   bad after day 166
* 12. maximum wind speed (m/s)
   bad after day 166
* 13. minimum wind speed (m/s)
   bad after day 166
14. mean P.A.R. (micromols/s/m2)
   divide by 200, multiply by 282.53
15. mean soil temperature @ 0 cm in soil (C)
   rclow
16. mean soil temperature @ 10 cm in soil (C)
   convert to mV, then clow
17. mean Onyx River temperature (C)
   rclow
18. sample of battery voltage
   o1

notes:

1. wind storm damaged station. All wind and pyranometer data after day 166 is bad. Temperatures, RH, and PAR all appear ok

Filename: vaa97f02.prn
Station: Lake Vanda met station
Date of Establishment: November 24, 1994 by Peter Doran
Author of this report: Peter Doran
File Period: Aug 23/97 (235) @ 1445 to Oct 29/97 (302) @ 1015
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
   rclow
5. mean R.H. @ 3 meters (%)
   ok
* 6. mean solar flux coming down (W/m2)
   bad after day 166
* 7. mean solar flux going up (W/m2)
   bad after day 166
* 8. mean horizontal wind speed (m/s)
   bad after day 166
* 9. resultant mean wind speed (m/s)
   bad after day 166
* 10. resultant mean wind direction (degrees from north)
   bad after day 166
* 11. standard deviation of wind direction (degrees)
   bad after day 166
* 12. maximum wind speed (m/s)
   bad after day 166
* 13. minimum wind speed (m/s)
   bad after day 166
14. mean P.A.R. (micromols/s/m2)
   divide by 200, multiply by 282.53
15. mean soil temperature @ 0 cm in soil (C)
   rclow
16. mean soil temperature @ 10 cm in soil (C)
   convert to mV, then clow
17. mean Onyx River temperature (C)
   rclow
18. sample of battery voltage
   o1

notes:

2. All wind and pyranometer data is bad. Temperatures, RH, and PAR all appear ok
3. Missing data at end of this file

Filename: vaa97802.dat
Station: Lake Vanda met station
Date of Establishment: November 24, 1994 by Peter Doran
Author of this report: Peter Doran
File Period: Nov 22/97 (326) @ 1315 to Jan 13/98 (13) @ 1320
Sampling Frequency: every 4 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 min
Program Name: vaa978-1

1. array I.D.
   o1
2. day
   ok
3. time
   ok
4. mean air temp. @ 3 meters
   rclow
5. mean R.H. @ 3 meters (%)
   ok
6. mean solar flux coming down (W/m2)
   bad after day 166
7. mean solar flux going up (W/m2)
   bad after day 166
8. mean horizontal wind speed (m/s)
   bad after day 166
9. resultant mean wind speed (m/s)
   bad after day 166
10. resultant mean wind direction (degrees from north)
    bad after day 166
11. standard deviation of wind direction (degrees)
    bad after day 166
12. maximum wind speed (m/s)
    bad after day 166
13. minimum wind speed (m/s)
    bad after day 166
14. mean P.A.R. (micromols/s/m2)
    divide by 200, multiply by
15. mean soil temperature @ 0 cm in soil (C)
    rclow
16. mean soil temperature @ 10 cm in soil (C)
    convert to mV, then clow
17. mean Onyx River temperature (C)
    rclow
18. sample of battery voltage
    o1

notes:

4. Data missing before this file
2. All new sensors except for soil and river thermistors
3. file vaa978-1 is one line long with bad time stamp

Filename: via97f01.prn
Station: Lake Vida met station
Date of Establishment: November 24, 1995 by Peter Doran
Author of this report: Peter Doran
File Period: Jan 25/97 (25) @ 1315 to Aug 20/97 (232) @ 1300
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
   rclow
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)
    rclow
16. mean soil temperature @ 5 cm in soil (C)
    rclow
17. mean soil temperature @ 10 cm in soil (C)
    rclow
18. sample of battery voltage
    o1

notes:

Filename: via97f02.prn
Station: Lake Vida met station
Date of Establishment: November 24, 1995 by Peter Doran
Author of this report: Peter Doran
File Period: Aug 20/97 (232) @ 1315 to Nov 24/97 (328) @ 945
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
   rclow
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)
   rclow
16. mean soil temperature @ 5 cm in soil (C)
   rclow
17. mean soil temperature @ 10 cm in soil (C)
   rclow
18. sample of battery voltage
   o1

notes:

Filename: via97801.dat
Station: Lake Vida met station
Date of Establishment: November 24, 1995 by Peter Doran
Author of this report: Peter Doran
File Period: Nov 24/97 (328) @ 1000 to Nov 24/97 (328) @ 1015
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
   rclow
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)
    rclow
16. mean soil temperature @ 5 cm in soil (C)
    rclow
17. mean soil temperature @ 10 cm in soil (C)
    rclow
18. sample of battery voltage
    o1

notes:

Filename: via97802.dat
Station: Lake Vida met station
Date of Establishment: November 24, 1995 by Peter Doran
Author of this report: Peter Doran
File Period: Nov 24/97 (328) @ 1130 to Jan 13/98 (13) @ 1200
Sampling Frequency: every 4 secs.; others: every 30 secs.
Averaging and Output Interval: every 15 min
Program Name: via978-1

1. array I.D.
   o1
2. day
   ok
3. time
   ok
4. mean air temp. @ 3 meters
   rclow
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)
    rclow
16. mean soil temperature @ 5 cm in soil (C)
    rclow
17. mean soil temperature @ 10 cm in soil (C)
    rclow
18. sample of battery voltage
    o1

notes:
1. new rh chip
2. swapped light sensors but serial numbers not recorded.