

NILU
OPPDRAGSRAPPORT NR: 8/83
REFERANSE:
DATO: JANUAR 1983

METEOROLOGISKE DATA FRA
NEDRE TELEMARK, VÅREN 1982
AV
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POSTBOKS 130, 2001 LILLESTRØM
NORGE

ISBN-82-7247-365-8

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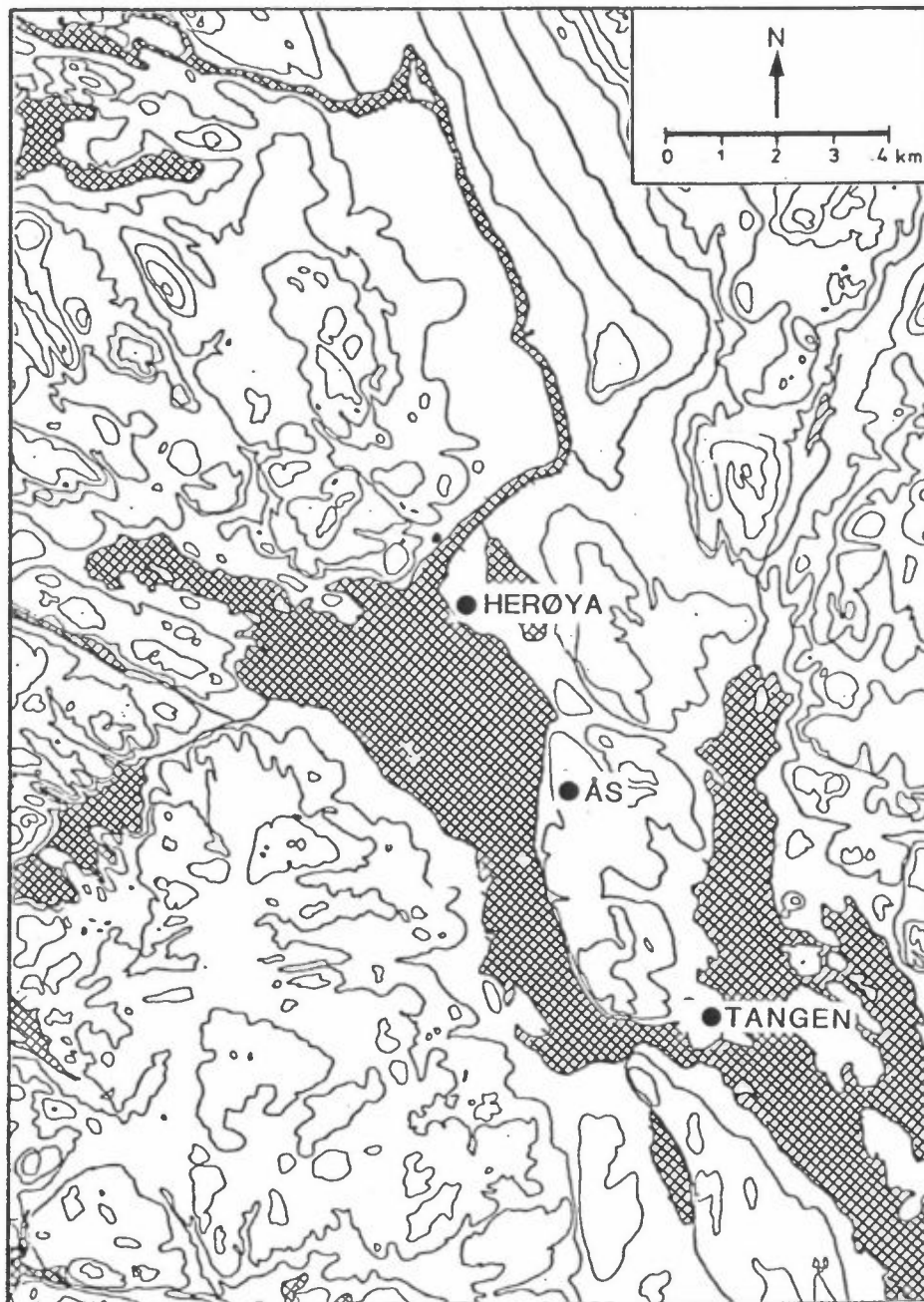
METEOROLOGISKE DATA FRA
NEDRE TELEMAR, VÅREN 1982

1 INNLEDNING

Denne presentasjonen av meteorologiske data fra nedre Telemark i perioden 1.3.82-31.5.82 (vår), er et ledd i det koordinerte måleprogram av meteorologi og spredningsforhold i området. Bearbeidelsen er utført på oppdrag fra Porsgrunn Fabrikker Herøya og Statens forurensningstilsyn, kontrollseksjonen nedre Telemark, og er en videreføring av tidligere tilsendte data (se Referanselisten).

2 INSTRUMENTERING, STASJONSPLOSSERING

Målestasjonenes plassering er angitt i figur 1.



Figur 1: Lokalisering av meteorologiske målestasjoner i nedre Telemark.

Følgende instrumentering er anvendt ved de forskjellige stasjonene:

- Ås : NILU automatiske værstasjon (AWS) med 25 m høy mast hvor det timevis måles: vindretning og vindstyrke (i 25 m), temperatur og relativ fuktighet (i 3 m), stabilitet (temperaturforskjell mellom 25 og 10 m). Stasjonene er plassert 90 m o.h.
- Herøya : Vindskriver av type Lambrecht nach Woelfle ca 30 m o.h., inne på industriområdet.
- Tangen
Brevik : Pluviograf av type Fuess nr. 95 nach Hellmann (hevert-pluviograf) plassert ca 20 m o.h.

3 DATAKVALITET

Datatilgjengeligheten fra Ås for perioden var følgende:

- 86.5% for vindhastighet
- 83.8% for temperaturdifferens
- ca 85% for temperatur
- 88.1% for vindretning
- 88.0% for relativ fuktighet.

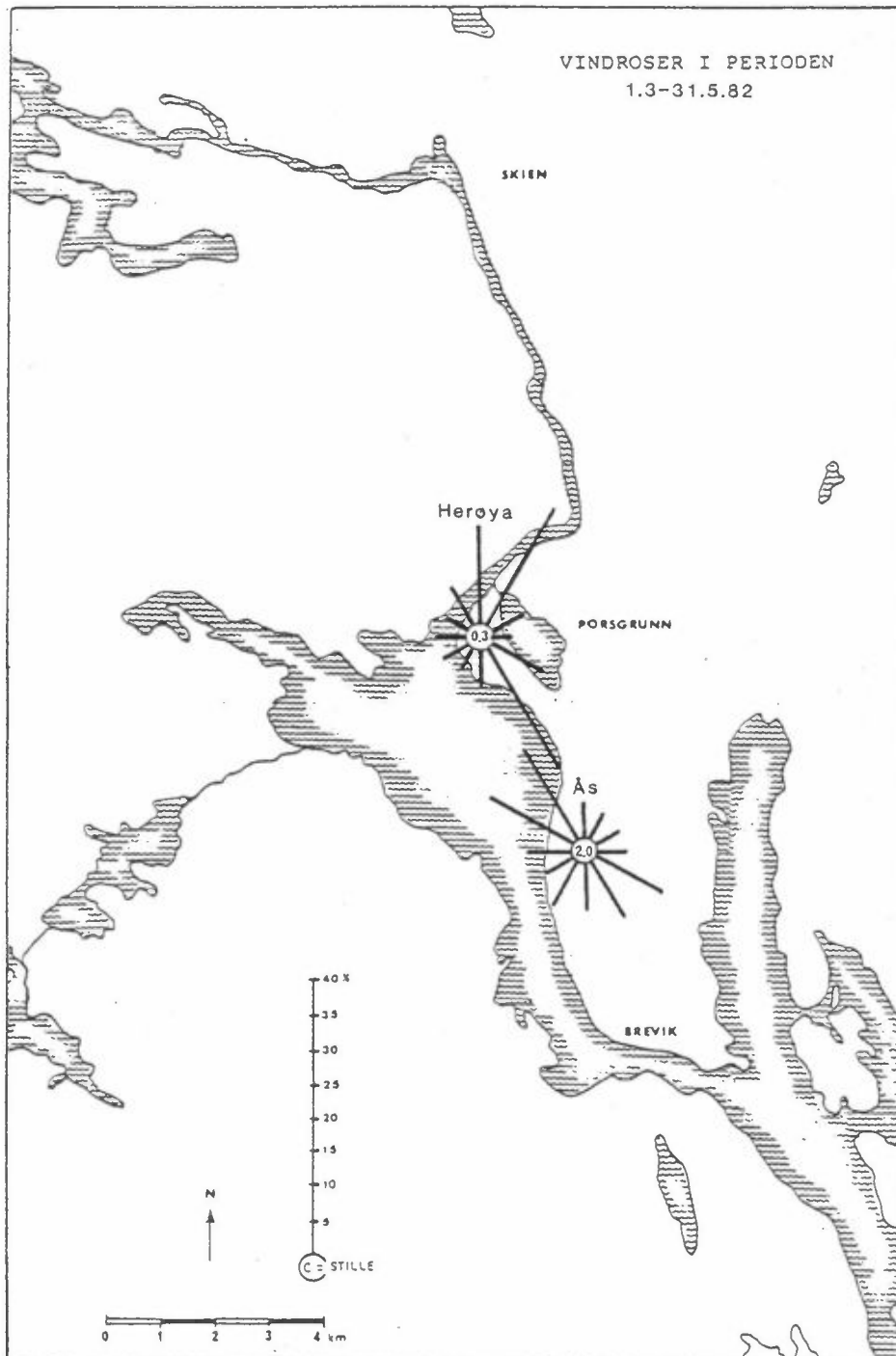
Denne forholdsvis lave datatilgjengeligheten skyldes en feil ved koderen i perioden 8.3.-18.3.82. Alle parametrene mangler i denne perioden. Ellers finnes det sporadiske mangler, og årsaken er sannsynligvis coderfeil.

Ved Herøya var datatilgjengeligheten 86% for både vindhastighet og vindretning.

For nedbørmålingene på Tangen, Brevik var tilgjengeligheten 89.9%. Data mangler i perioden 1.3.-10.3.82.

4 VINDFORHOLDENE

Vindroser fra alle stasjonene for våren 1982 er vist i figur 2.



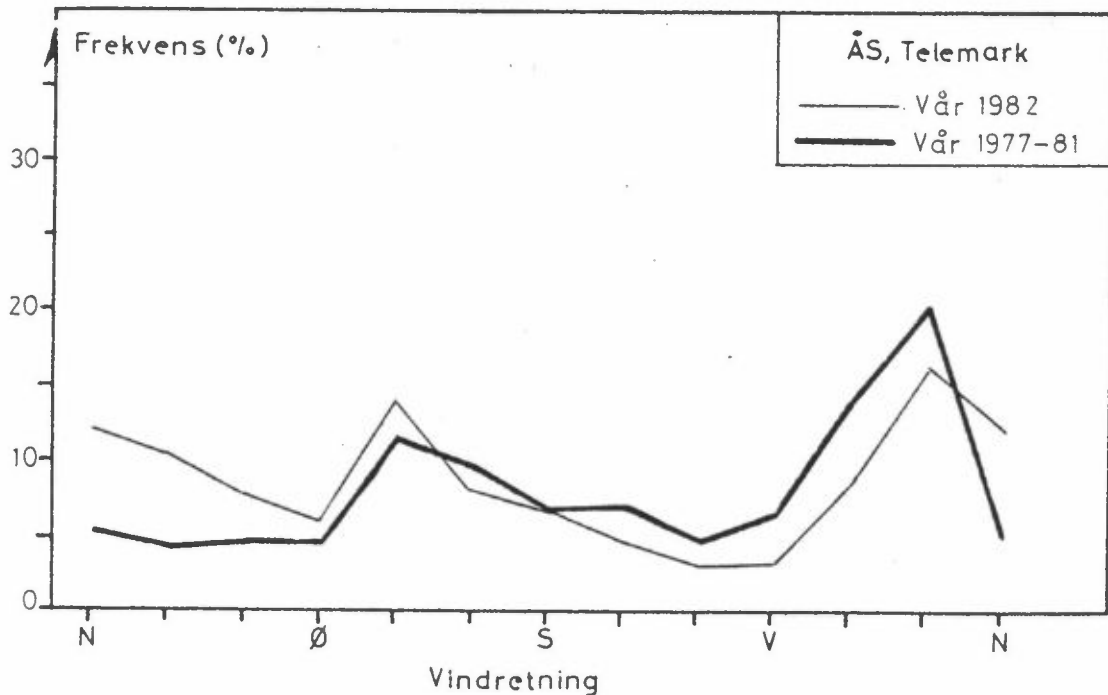
Figur 2: Vindroser (frekvens av vind i % i 12 sektorer) fra nedre Telemark for perioden 1.3.82-31.5.82.

Kvartalsvise vindfrekvensfordelinger (i %) er også presentert i tabellene 1-3. Vindobservasjoner fra Ås er dessuten presentert som månedsvise frekvensfordelinger i tabellene 7-9.

Det blåste ofte fra nord-nordvest, vest-nordvest og omkring sørøst ($S\pm 45^\circ$) ved Ås i denne perioden. Kanaliseringen er ikke så utpreget som vinter og sommer, derfor er også andre vindretninger godt representert. Den lokale kanalisering ved Herøya blåste det som vanlig oftest fra nord-nordøst og nord i perioden. Vind fra sør-sørøst var også hyppig forekommende.

Middelvindstyrken ved Ås var 3.0 m/s, og ved Herøya 2.8 m/s.

I figur 3 er frekvensfordelingen av forskjellige vindretninger våren 1982 sammenstilt med tilsvarende målinger for vårsesongene 1977-1981 fra Ås.



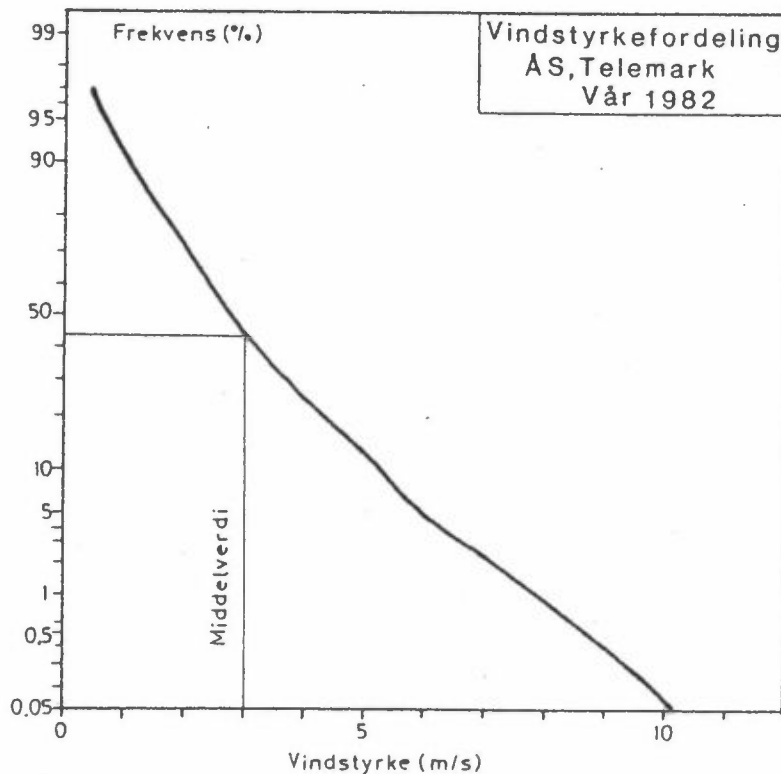
Figur 3: Frekvensfordeling av vindretninger (i 30°-sektorer) ved Ås for våren 1982, sammenholdt med middelfordeling for vårsesongene 1977-81 ved Ås.

Figur 3 viser av frekvensfordelingen av vindsretninger ved Ås for våren 1982 stemmer bra overens med middelfordelingene for vårsesongene 1977-81. Våren 1982 blåste det noe oftere fra omkring nord og noe sjeldnere fra vest og vestnordvest.

Figur 4 viser vindstyrkefordelingen ved Ås. Vindstyrker over 6 m/s ved Ås forekom i 5.0% av tiden, mens vind sterkere enn 10 m/s forekom i en time; kl. 19 den 15.5.82. Svake vinder, mindre enn 2 m/s forekom i 30% av tiden. I gjennomsnitt blåste det svakest fra sør-sørøst og sterkest fra sør-sørvest.

Ås hadde 2% vindstille, mens det på Herøya bare ble registrert vindstille i 0.3% av tiden. Dette kan skyldes forskjeller i registrering av svake vinder for Ås og Herøya.

Herøya hadde gjennomsnittlig svakest vind fra østlig retning og sterkest vind fra nord-nordvest.



Figur 4: Kumulativ frekvensfordeling av vindstyrke ved Ås våren 1982. Figuren viser frekvens av vindstyrke større enn verdiene angitt på x-aksen.

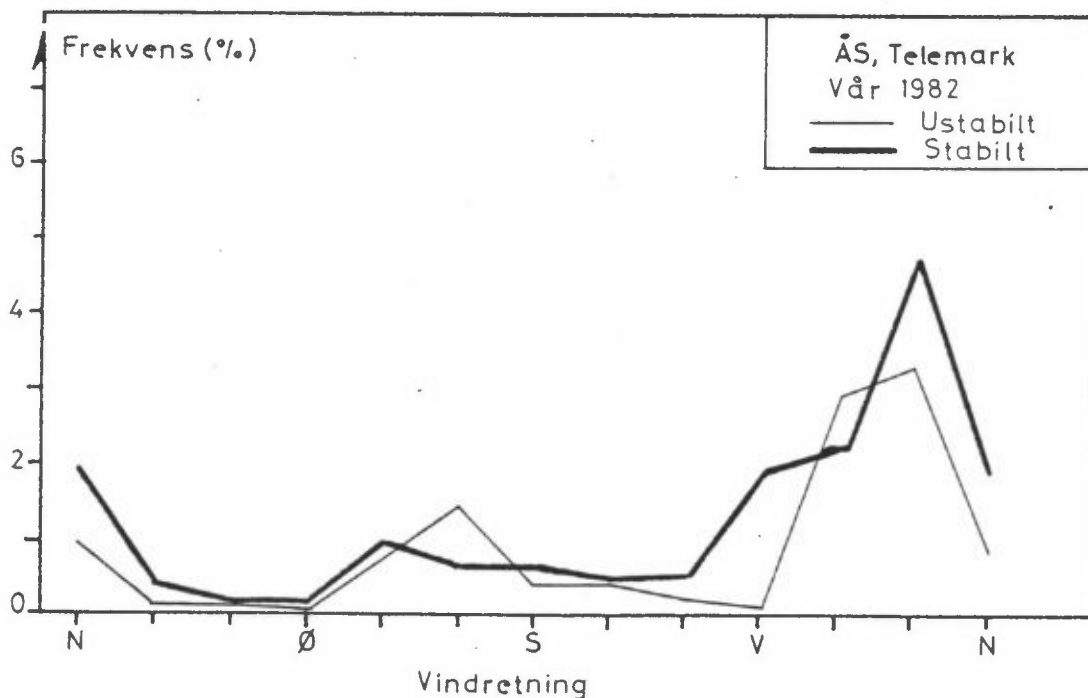
5 STABILITETSFORHOLDENE

Stabilitetsforholdene i fire klasser er fordelt over døgnet i tabell 6, basert på temperaturdifferansen 25-10 m på Ås. Våren 1982 var det 14% stabil, 37% lett stabil, 39% nøytral og 10% instabil temperatursjiktning. Dette stemmer godt med det som er målt tidligere vårsesonger.

6 FREKVENNS AV VIND/STABILITET

Tabell 4 gir frekvensen (i %) i 196 klasser av vind og stabilitet, basert på stabilitetsdata og vinddata fra 25 m masta på Ås.

Figur 5 viser frekvensen av stabil sjiktning (inversjoner) og ustabil sjiktning som funksjon av vindretningen.



Figur 5: Frekvens av stabil og ustabil sjiktning som funksjon av vindretningen ved Ås våren 1982.

Figur 5 viser at stabile tilfeller våren 1982 oftest forekom ved vind fra nord-nordvest på Ås. Dette representerer vanligvis de stabile nattsituasjonene. Instabil sjikting har også en topp på dagtid ved vind fra omkring sør-sørøst. Toppen ved nord-nordvestlig retning skyldes at dette er den klart dominerende vindretningen. Tabell 9 viser at de fleste instabile tilfellene forekom ved vindhastigheter på 2-4 m/s.

7 TEMPERATUR VED ÅS

Tabell 5 viser månedsvise temperaturstatistikk for Ås i perioden 1.3.82-31.5.82. Middelsestemperaturen for mars var 2.3°C , april 6.1°C og for mai 9.6°C . Mars og april var noe varmere enn normalt, mens mai var noe kaldere enn normalt. Den høyeste temperaturen ble målt den 30.5.82, kl 12 til 22.7°C , den laveste temperaturen ble målt den 6.3.82 kl 07 til -6.4°C .

8 RELATIV FUKTIGHET VED ÅS

Tabell 6 viser en statistisk fordeling av den relative fuktigheten ved Ås for våren 1982. Månedsmiddelerverdiene viser relativ fuktighet på 68% i mars, 59% i april og 65% i mai. Våren 1982 synes å ha vært en del tørrere enn vanlig de siste årene. Mot slutten av vårsesongen får vi en klar døgnlig variasjon i relativ fuktighet. I mai var midlere relative fuktighet 54% kl 16, mens den kl 04 var 78%.

9 NEDBØR

Kontinuerlige nedbørmålinger fra NILUs målestasjon Tangen ved Brevik er rapportert sammen med nedbørmengder fra Meteorologisk institutts klimastasjon ved Jomfruland (hvor det også er etablert en 30-års normal som en kan sammenlikne med).

Registreringene fra den kontinuerlige prøvetakeren ved Brevik er presentert i tabell 12, mens månedsnedbøren er gitt i tabell 13.

Mars og mai måned 1982 hadde omtrent tre ganger så mye nedbør som normalt, mens april måned var tørr. Det falt kunn 19.8 mm nedbør ved Tangen i løpet av 26 timer. I mars var det nedbør i 120 timer (over 15 døgn), i april regnet det i 26 timer (over 6 døgn) og i mai regnet det i 126 timer (fordelt over 15 døgn).

Avviket mellom nedbørmengden for Tangen, Brevik og Jomfruland for mars 1982 skyldes antagelig at nedbørdata fra Tangen mangler for de 9 første dagene i mars.

10 TABELLER

- Tabell 1: Vindfrekvenser (vindrose) fra Ås 1.3.82-31.5.82.
- Tabell 2: Vindfrekvenser fra Herøya 1.3.82-31.5.82
- Tabell 3: Fire klasser av stabiliteter fordelt over døgnet basert på målinger av temperaturforskjellen mellom 25 m og 10 m i masta på Ås 1.3.82-31.5.82.
- Tabell 4: Frekvens (i %) av vind og stabilitet fordelt på:
fire vindstyrkeklasser
fire stabilitetsklasser (1 = instabilt, 2 = nøytralt, 3 = lett stabilt, 4 = stabilt)
vindstille (vind < 0.2 m/s)
basert på data fra Ås i perioden 1.3.82-31.5.82.
- Tabell 5: Månedsvise temperaturstatistikk fra Ås for mars, april og mai 1982: middel-, maksimum- og minimums-temperaturer, antall observasjoner og temperatur under gitte grenser, samt midlere døgnfordeling av temperatur.
- Tabell 6: Månedsvise relativ fuktighets-statistikk fra Ås for mars, april og mai 1982. Middel-, maksimum og minimumsverdier, antall observasjoner av relativ fuktighet under gitte grenser, samt midlere døgnfordeling.
- Tabell 7: Vindfrekvenser fra Ås for mars 1982.
- Tabell 8: Vindfrekvenser fra Ås for april 1982.
- Tabell 9: Vindfrekvenser fra Ås for mai 1982.
- Tabell 10: Månedsvise stabilitetsfrekvens (i fire klasser) fordelt over døgnet, basert på målinger av temperaturforskjellen mellom 25 m og 10 m i masta på Ås: a) mars 1982, b) april 1982, c) mai 1982.
- Tabell 11: Frekvens (i %) av vind og stabilitet fra Ås (klassifisering som tabell 6) i
a) mars 1982, b) april 1982, c) mai 1982.
- Tabell 12: Nedbørmålinger fra Tangen, Brevik i
a) mars 1982, b) april 1982, c) mai 1982.
- Tabell 13: Månedsvise nedbørmengder.

Tabell 1:

VINDROSE FRA RS

1/ 3-82 - 31/ 5-82

SEKTOR	VINDROSE KL.									
	1	4	7	10	13	16	19	22	DØGN	
20- 40	7.4	2.4	6.2	6.3	3.8	5.0	1.3	2.5	4.2	
50- 70	2.5	4.9	4.9	7.5	2.5	2.5	7.5	3.3	4.5	
80-100	7.4	3.7	2.5	2.5	3.8	5.0	6.3	7.5	4.6	
110-130	4.9	2.4	4.9	7.5	27.5	17.5	17.5	16.3	11.4	
140-160	4.9	6.1	7.4	6.3	12.5	19.8	15.0	5.0	9.4	
170-190	2.5	2.4	3.7	6.3	10.0	13.8	8.8	6.3	6.7	
200-220	6.2	7.3	4.9	6.3	6.3	6.3	8.8	5.0	7.0	
230-250	7.4	8.5	1.2	7.5	1.3	1.3	2.5	6.3	4.5	
260-280	8.6	4.9	9.9	8.8	6.3	2.5	5.0	7.5	6.4	
290-310	9.9	17.1	18.5	15.8	12.5	12.5	12.5	18.8	13.3	
320-340	27.2	31.7	25.9	20.0	6.3	10.0	12.5	16.3	20.2	
350- 10	8.6	7.3	7.4	6.3	6.3	3.8	5.0	3.8	5.1	
STILLE	2.5	1.2	2.5	1.3	1.3	1.3	2.5	1.3	2.0	
ANT. OBS.	81	82	81	80	80	80	80	80	1924	
MIDL.VIND	2.6	2.9	2.5	2.7	3.4	3.8	3.4	2.7	3.0	

VINDANALYSE

DØGNMIDDEL	30	60	90	120	150	180	210	240	270	300	330	360	TOTAL
STILLE													2.0
0.3- 2.0 M/S	.7	.8	1.4	3.5	4.3	2.7	1.5	1.7	1.6	3.4	5.7	1.4	28.7
2.1- 4.0 M/S	2.2	3.2	2.4	5.9	4.4	3.2	3.1	1.7	3.4	5.6	8.5	2.4	46.1
4.1- 6.0 M/S	.9	.5	.3	1.8	.7	.5	2.1	1.0	.7	4.0	4.6	.9	13.6
OVER 6.0 M/S	.3	.1	0.0	.3	.3	.3	.3	.2	.5	.8	1.4	.4	4.6
TOTAL	4.2	4.5	4.6	11.4	9.6	6.7	7.0	4.5	6.4	13.8	20.2	5.1	100.0
MIDL.VIND M/S	3.3	2.8	2.7	2.9	2.5	2.4	3.5	2.9	3.1	3.4	3.3	3.1	3.0
ANT. OBS.	80	87	89	220	185	128	134	87	123	266	389	98	1924

MIDLERE VINDSTYRKE FOR HELE DATASETTET ER 3.0 M/S, BASERT PÅ 1934 OBSERVASJONER

Tabell 2:

VINDROSE FRA HERØYA

1/ 3-82 - 31/ 5-82

SEKTOR	VINDROSE KL.									
	1	4	7	10	13	16	19	22	DØGN	
20- 40	27.5	28.2	34.6	15.8	13.9	3.9	11.5	20.0	18.9	
50- 70	7.5	7.7	6.4	0.0	2.5	5.1	5.1	6.2	5.0	
80-100	5.0	2.6	5.1	5.3	3.8	0.0	3.8	5.0	3.2	
110-130	3.7	5.1	6.4	2.2	7.6	13.9	14.1	7.5	8.6	
140-160	15.0	9.0	12.8	22.4	38.0	35.4	21.8	17.5	20.3	
170-190	1.2	3.8	1.3	5.9	6.3	8.9	6.4	2.5	5.1	
200-220	0.0	1.3	1.3	7.9	3.8	1.3	5.1	3.7	4.0	
230-250	6.2	2.6	0.0	3.9	7.6	6.3	5.1	6.2	4.5	
260-280	5.0	6.4	3.8	3.9	3.8	5.1	7.7	3.7	4.9	
290-310	1.2	3.8	2.6	1.3	2.5	5.1	5.1	6.2	4.0	
320-340	10.0	6.4	2.6	6.6	5.1	6.3	10.3	8.7	6.9	
350- 10	14.2	23.1	23.1	19.7	5.1	3.8	3.8	12.5	14.4	
STILLE	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	
ANT. OBS.	80	78	78	76	79	79	78	80	1893	
MIDL.VIND	2.2	2.4	2.4	3.0	3.4	3.7	3.1	2.4	2.8	

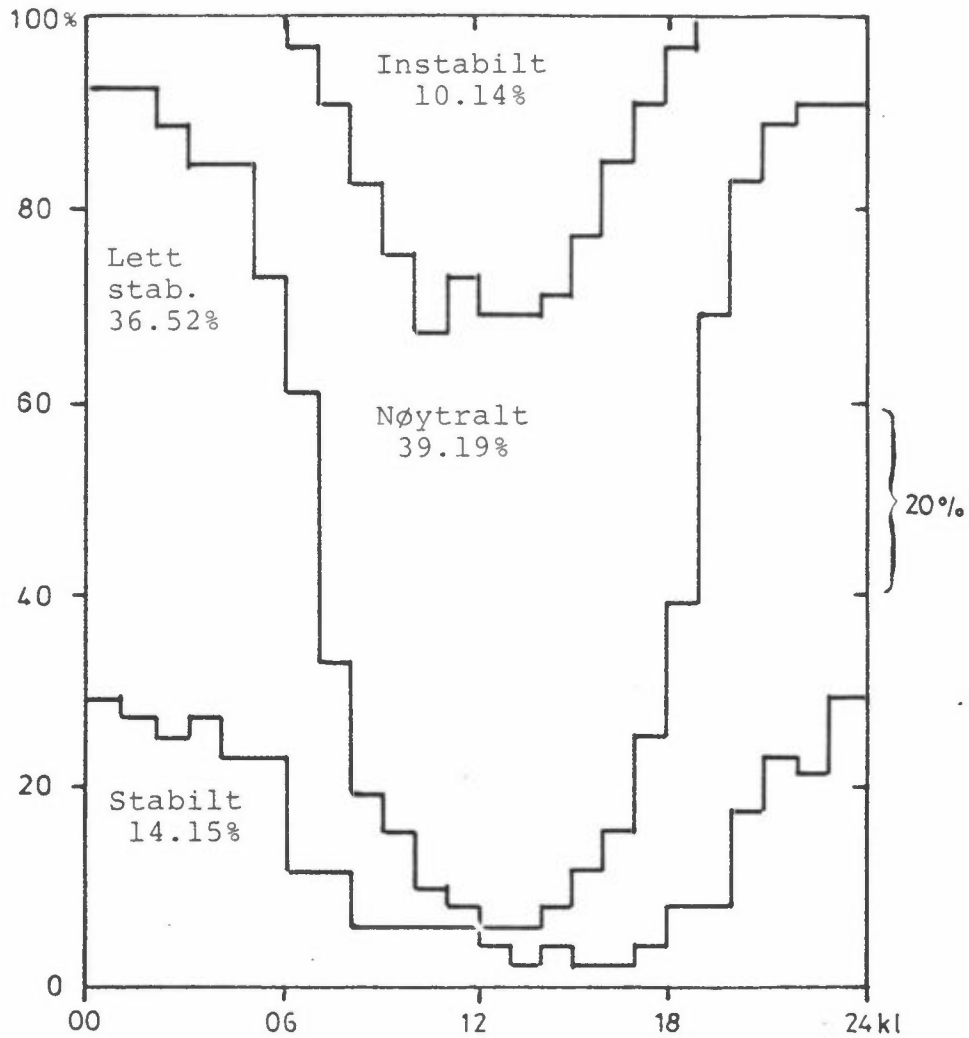
VINDANALYSE

DØGNMIDDEL	30	60	90	120	150	180	210	240	270	300	330	360	TOTAL
STILLE													0.3
0.3- 2.0 M/S	10.0	3.0	2.4	2.9	3.0	1.8	2.2	1.0	1.8	0.7	0.3	6.0	40.1
2.1- 4.0 M/S	4.9	1.3	0.3	4.0	11.4	2.8	1.4	3.0	1.7	1.3	2.7	4.7	39.8
4.1- 6.0 M/S	2.6	0.7	0.2	1.3	0.7	0.5	0.4	0.5	1.2	1.6	2.7	2.2	14.6
OVER 6.0 M/S	1.3	0.0	0.0	0.4	0.3	0.0	0.0	0.1	0.1	0.4	1.1	1.6	5.2
TOTAL	18.9	5.0	3.2	8.6	20.3	5.1	4.0	4.5	4.9	4.0	6.9	14.4	100.0
MIDL.VIND M/S	2.7	2.1	1.6	2.6	2.4	2.5	2.3	3.0	2.9	3.8	4.5	3.1	2.8
ANT. OBS.	358	95	61	162	385	96	75	85	92	76	130	273	1893

MIDLERE VINDSTYRKE FOR HELE DATASETTET ER 2.8 M/S, BASERT PÅ 1928 OBSERVASJONER

Tabell 3.

dT(25-10 m) Ås
1.3.82-31.5.82



FREKVENNS AV FORSKJELIGE STABILITETER
1.3-31.5 1982

	GRUPPE 1 x=(< - .5)	GRUPPE 2 x=(- .5-<0.0)	GRUPPE 3 x=(0.0-< .5)	GRUPPE 4 x=(.5->)
1	0.00	6.25	63.75	30.00
2	0.00	5.06	67.09	27.85
3	0.00	10.13	63.29	26.58
4	0.00	14.29	57.14	28.57
5	0.00	14.29	61.04	24.68
6	0.00	25.64	50.00	24.36
7	2.60	36.36	43.05	12.99
8	7.79	58.44	22.08	11.69
9	15.38	64.10	14.10	6.41
10	23.08	61.54	8.97	6.41
11	32.91	56.96	5.06	5.06
12	26.58	65.82	2.53	5.06
13	30.77	62.82	2.56	3.85
14	30.77	62.82	3.85	2.56
15	27.27	64.94	3.90	3.90
16	21.79	66.67	8.97	2.56
17	14.10	69.23	14.10	2.56
18	7.69	65.38	23.08	3.85
19	2.53	56.96	32.91	7.59
20	0.00	30.00	61.25	8.75
21	0.00	16.46	64.56	18.79
22	0.00	10.39	64.94	24.68
23	0.00	7.69	70.51	21.79
24	0.00	8.00	62.67	29.33
	10.14	39.19	36.52	14.15

Tabell 4:

1.3-31.5.82	0.0- 2.0 M/S				2.0- 4.0 M/S				4.0- 6.0 M/S				OVER 6.0 M/S				ROSE
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
30	.0	.2	.4	.1	.1	1.5	.4	.2	.0	.8	.2	.0	.0	.2	.1	.1	4.1
60	.0	.2	.4	.1	.1	1.5	1.7	.0	.0	.3	.2	.0	.0	.0	.1	.0	4.5
90	.0	.3	1.1	.1	.0	1.2	1.3	.0	.0	.6	.3	.0	.0	.0	.0	.0	4.9
120	.1	1.3	1.2	.4	.4	3.2	1.9	.3	.2	1.3	.2	.2	.0	.2	.1	.0	11.2
150	.5	1.8	1.7	.5	1.0	2.5	.9	.1	.1	.3	.4	.0	.0	.2	.1	.0	9.9
180	.0	1.0	1.1	.5	.4	2.0	.7	.1	.0	.3	.2	.0	.0	.2	.1	.0	6.6
210	.0	.4	.7	.3	.3	1.5	1.6	.1	.1	1.4	.8	.0	.0	.2	.1	.0	7.3
240	.1	.6	.6	.3	.0	.7	.8	.1	.1	.3	.6	.1	.0	.1	.1	.0	4.5
270	.0	.5	.7	.3	.1	.7	1.2	1.4	.0	.3	.1	.2	.0	.5	.0	.0	5.8
300	.7	1.3	.7	.5	1.2	1.0	2.1	1.3	.9	1.2	1.7	.3	.1	.6	.1	.1	13.7
330	.9	1.9	1.7	1.3	1.0	1.1	3.8	3.0	.9	1.5	2.0	.3	.5	.6	.3	.0	20.6
360	.1	.4	.3	.7	.3	.3	.8	1.2	.4	.3	.2	.0	.1	.3	.0	.0	5.3
STILLE	.0	.2	1.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7
TOTAL	2.1	10.1	12.0	5.3	4.7	17.2	17.1	7.7	2.6	8.6	6.7	1.0	.7	3.2	.8	.21	100.0

FØRDELING PR VINDHASTIGHET

0.0- 2.0 M/S	2.0- 4.0 M/S	4.0- 6.0 M/S	OVER 6.0 M/S
29.5	46.7	19.0	4.8

FØRDELING AV STABILITETSKLASSENE

10.1	39.2	36.6	14.1
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ANTALL TIMER = 2208, ANTALL OBSERVASJØNER = 1862

Tabell 7:

VINDROSE FRA AS
1/ 3-82 - 31/ 3-82

SEKTOR	VINDROSE KL.									DØGN
	1	4	7	10	13	16	19	22		
20- 40	0.5	4.8	4.8	0.0	4.8	4.8	0.0	4.8	3.6	
50- 70	0.0	9.5	14.3	19.0	9.5	9.5	9.5	4.8	10.2	
80-100	9.5	4.8	4.8	4.8	4.8	4.8	9.5	14.3	7.4	
110-130	4.8	9.5	4.8	4.8	14.3	4.8	14.3	0.0	5.8	
140-160	19.0	9.5	9.5	4.8	14.3	19.0	9.5	9.5	10.6	
170-190	0.0	0.0	0.0	4.8	9.5	9.5	4.8	9.5	6.4	
200-220	4.8	4.8	9.5	9.5	9.5	14.3	19.0	4.8	10.6	
250-250	4.8	14.3	0.0	4.8	4.8	0.0	0.0	9.5	4.8	
260-280	9.5	0.0	4.8	4.8	9.5	4.8	9.5	4.8	5.2	
290-310	4.8	9.5	9.5	0.0	4.8	14.3	9.5	14.3	8.8	
320-340	19.0	23.8	19.0	23.8	4.8	9.5	4.8	14.3	15.6	
350- 10	9.5	4.8	14.3	14.3	4.8	0.0	4.8	4.8	6.0	
STILLE	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	
ANT.OBS.	21	21	21	21	21	21	21	21	499	
MIDL.VIND	2.5	2.8	2.6	2.8	2.7	3.1	2.9	2.5	2.7	

VINDANALYSE

DØGNMIDDEL	30	60	90	120	150	180	210	240	270	300	330	360	TOTAL
STILLE													4.8
.3- 2.0 M/S	.8	1.2	1.2	2.8	5.8	2.6	1.6	1.2	1.4	2.2	3.6	1.4	25.9
2.1- 4.0 M/S	2.8	7.6	5.4	2.6	4.2	3.8	5.6	2.8	3.6	4.6	6.8	3.6	53.5
4.1- 6.0 M/S	0.0	1.4	.8	.4	.6	0.0	3.4	.8	.2	1.8	5.2	1.0	15.6
OVER 6.0 M/S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.2	0.0	0.0	.2
TOTAL	3.6	10.2	7.4	5.8	10.6	6.4	10.6	4.8	5.2	8.8	15.6	6.0	100.0
MIDL.VIND M/S	2.4	3.0	2.9	2.3	2.2	2.3	3.4	2.8	2.5	3.0	3.1	2.8	2.7
ANT. OBS.	18	51	37	29	53	32	53	24	26	44	78	30	499

MIDLERE VINDSTYRKE FOR HELE DATASETTET ER 2.7 M/S, BASERT PÅ 504 OBSERVASJONER

Tabell 8:

VINDROSE FRA AS
1/ 4-82 - 30/ 4-82

SEKTOR	VINDROSE KL.									DØGN
	1	4	7	10	13	16	19	22		
20- 40	10.0	0.0	3.4	7.1	3.6	7.1	0.0	0.0	3.6	
50- 70	0.0	3.3	0.0	0.0	0.0	0.0	0.0	3.4	1.6	
80-100	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	.7	
110-130	6.7	0.0	0.0	7.1	25.0	14.3	10.7	20.7	9.1	
140-160	0.0	0.0	3.4	3.6	10.7	17.9	17.9	6.9	9.1	
170-190	3.3	6.7	3.4	7.1	10.7	14.3	17.9	6.9	7.3	
200-220	3.3	3.3	3.4	7.1	3.6	7.1	3.6	0.0	3.9	
230-250	13.3	10.0	3.4	10.7	0.0	0.0	3.6	10.3	5.4	
260-280	10.0	13.3	17.2	17.9	7.1	0.0	3.6	0.0	10.2	
290-310	16.7	13.3	24.1	14.3	17.9	17.9	14.3	24.1	18.1	
320-340	33.3	40.0	34.5	25.0	10.7	14.3	25.0	24.1	25.8	
350- 10	3.3	10.0	6.9	0.0	7.1	7.1	3.6	3.4	4.8	
STILLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.3	
ANT.OBS.	30	30	29	28	28	28	28	29	685	
MIDL.VIND	2.5	2.6	2.4	2.4	3.8	4.2	3.6	2.9	3.1	

VINDANALYSE

DØGNMIDDEL	30	60	90	120	150	180	210	240	270	300	330	360	TOTAL
STILLE													.3
.3- 2.0 M/S	.7	.7	.4	3.2	4.4	3.8	1.6	2.8	2.5	3.4	7.9	1.2	32.6
2.1- 4.0 M/S	1.6	.7	.3	4.5	4.4	3.5	.9	1.8	6.0	6.0	9.2	1.5	40.3
4.1- 6.0 M/S	1.0	.1	0.0	1.3	.3	0.0	1.3	.9	1.8	6.9	5.3	1.5	20.3
OVER 6.0 M/S	.3	0.0	0.0	0.0	0.0	0.0	.1	0.0	0.0	1.9	3.5	.7	6.6
TOTAL	3.6	1.6	.7	9.1	9.1	7.3	3.9	5.4	10.2	18.1	25.8	4.8	100.0
MIDL.VIND M/S	3.2	2.0	1.9	2.6	2.2	2.0	3.1	2.3	2.9	3.8	3.5	3.6	3.1
ANT. OBS.	25	11	5	62	62	50	27	37	70	124	177	33	685

MIDLERE VINDSTYRKE FOR HELE DATASETTET ER 3.1 M/S, BASERT PÅ 688 OBSERVASJONER

Tabell 9:

VINDROSE FRA ÅS
1/ 5-82 - 31/ 5-82

SEKTOR	VINDROSE KL.								DØGN
	1	4	7	10	13	16	19	22	
20- 40	3.3	3.2	9.7	9.7	3.2	3.2	3.2	3.3	5.0
50- 70	6.7	3.2	3.2	6.5	0.0	0.0	0.0	3.3	3.4
80-100	13.3	6.5	3.2	3.2	3.2	9.7	9.7	10.0	6.4
110-130	3.3	0.0	9.7	9.7	38.7	20.0	25.8	23.3	17.4
140-160	0.0	9.7	9.7	9.7	12.9	19.4	16.1	0.0	9.5
170-190	3.3	0.0	6.5	6.5	9.7	16.1	3.2	3.3	6.2
200-220	10.0	12.9	3.2	3.2	6.5	0.0	6.5	10.0	7.3
230-250	3.3	3.2	0.0	6.5	0.0	3.2	3.2	0.0	3.5
260-280	6.7	0.0	6.5	3.2	3.2	3.2	3.2	16.7	3.6
290-310	6.7	25.8	19.4	22.6	12.9	6.5	12.9	16.7	13.2
320-340	26.7	20.0	22.6	12.9	3.2	6.5	6.5	10.0	18.1
350- 10	13.3	6.5	3.2	6.5	6.5	3.2	6.5	3.3	4.7
STILLE	3.3	0.0	3.2	0.0	0.0	0.0	3.2	0.0	1.6
ANT. OBS.	30	31	31	31	31	31	31	30	740
MIDL.VIND	2.8	3.1	2.6	3.0	3.5	4.0	3.5	2.7	3.1

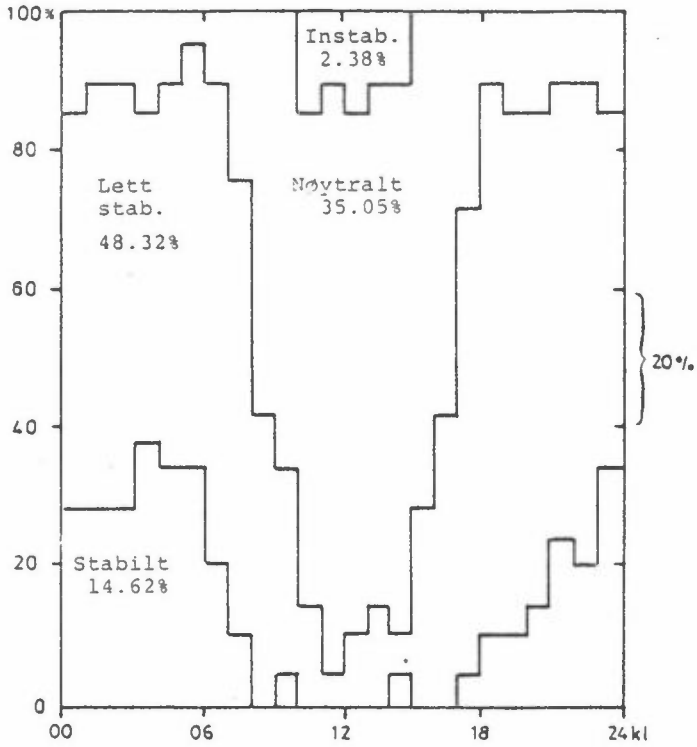
VINDANALYSE

DØGNMIDDEL	30	60	90	120	150	180	210	240	270	300	330	360	TOTAL
STILLE													1.6
0.3- 2.0 M/S	.7	.7	2.4	4.2	3.2	1.6	1.2	.9	.9	4.3	5.1	1.6	27.0
2.1- 4.0 M/S	2.3	2.4	2.3	9.5	4.5	2.4	3.5	.3	1.4	5.8	9.1	2.6	46.5
4.1- 6.0 M/S	1.5	.1	1.6	3.1	1.1	1.4	2.0	1.4	.1	2.8	3.6	.3	19.1
OVER 6.0 M/S	.5	.1	0.0	.7	.7	.8	.5	.4	1.2	.3	.3	.3	5.8
TOTAL	5.0	3.4	6.4	17.4	9.5	6.2	7.3	3.5	3.6	13.2	18.1	4.7	100.0
MIDL.VIND M/S	3.8	2.7	2.7	3.1	2.9	3.4	3.7	3.7	4.2	2.9	3.0	2.8	3.1
ANT. OBS.	37	25	47	129	70	46	54	26	27	98	134	35	740

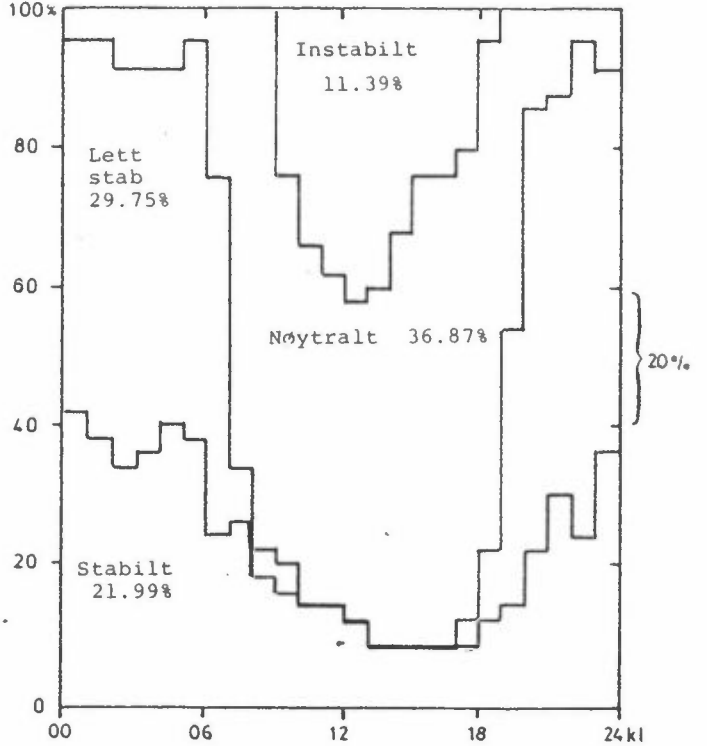
MIDLERE VINDSTYRKE FOR HELE DATASETET ER 3.1 M/S, BASERT PÅ 742 OBSERVASJONER

Tabell 10:

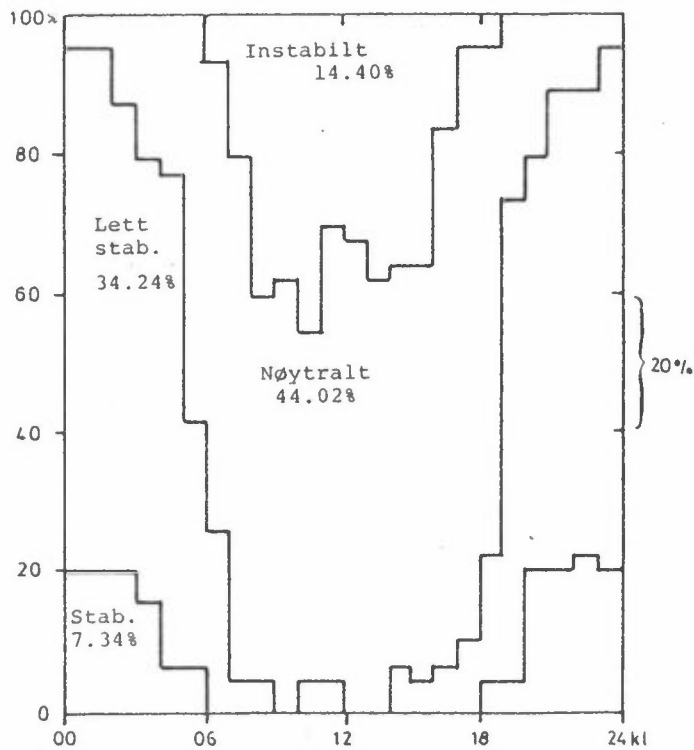
a) dT(25-10 m) As
1.3.82-21.3.82



b) dT(25-10 m) As
1.4.82-30.4.82



c) dT(25-10 m) As
1.5.82-31.5.82



Tabell 11a:

Vind: Ås
 Stabilitet: dT (25-10 m).
 Periode: Mars 1982.

	0.0- 2.0 M/S				2.0- 4.0 M/S				4.0- 6.0 M/S				OVER 6.0 M/S				ROSE	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
30	.0	.2	.2	.2	.0	2.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2
60	.0	.2	.6	.2	.0	3.8	3.8	.0	.0	1.2	.4	.0	.0	.0	.0	.0	.0	10.2
90	.0	.0	1.2	.0	.0	2.4	3.4	.0	.0	.4	.2	.0	.0	.0	.0	.0	.0	7.8
120	.2	.6	1.0	.6	.0	.4	2.6	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	5.6
150	.6	1.4	3.2	.2	.0	2.0	2.0	.2	.0	.0	1.0	.0	.0	.0	.0	.0	.0	10.8
180	.0	.6	2.0	.0	.4	2.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.4
210	.0	.2	.4	.4	.2	3.4	2.2	.2	.0	2.2	1.2	.0	.0	.0	.0	.0	.0	10.4
240	.0	.0	.2	.4	.0	1.2	1.0	.2	.0	.0	1.0	.0	.0	.0	.0	.0	.0	4.6
270	.0	.2	.4	.4	.0	1.8	1.4	.4	.0	.0	.2	.0	.0	.0	.0	.0	.0	5.4
300	.2	.2	.8	1.0	.0	.8	2.0	1.8	.0	1.2	.6	.0	.0	.2	.0	.0	.0	8.8
330	.4	1.0	1.0	1.0	.0	.8	3.0	3.2	.0	2.2	2.4	.4	.0	.0	.0	.0	.0	15.4
360	.2	.6	.0	.8	.0	.6	.8	2.2	.0	.3	.2	.0	.0	.0	.0	.0	.0	6.2
STILLE	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8
TOTAL	1.4	5.4	14.8	5.2	.6	21.2	24.4	8.4	0.0	8.2	7.4	.6	0.0	.2	0.0	0.0	0.0	100.0

FORDDELING PÅ VINDHASTIGHET

0.0- 2.0 M/S	2.0- 4.0 M/S	4.0- 6.0 M/S	OVER 6.0 M/S
29.0	54.6	16.2	.2

FORDDELING AV STABILITETSKLASSENE

2.2	35.0	48.4	14.2
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ANTALL TIMER = 744, ANTALL OBSERVASJONER = 500

Tabell 11b:

Vind: Ås
 Stabilitet: dT (25-10 m)
 Periode: April 1982

	0.0- 2.0 M/S				2.0- 4.0 M/S				4.0- 6.0 M/S				OVER 6.0 M/S				ROSE	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
30	.0	.0	.6	.2	.3	.3	.3	.5	.0	1.1	.2	.0	.0	.3	.0	.0	.0	3.8
60	.0	.3	.3	.2	.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3
90	.0	.2	.2	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
120	.0	1.0	1.6	.2	.3	2.4	1.0	.8	.3	.6	.0	.6	.0	.0	.0	.0	.0	8.7
150	.0	2.7	1.3	.8	.5	3.2	.5	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	9.2
180	.0	1.6	1.3	1.0	.3	2.4	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2
210	.0	.8	.3	.4	.2	.4	.3	.0	.2	1.1	.0	.0	.0	.0	.0	.2	.0	4.3
240	.2	1.6	.6	.5	.0	.5	1.3	.2	.0	.3	.3	.2	.0	.0	.0	.0	.0	5.6
270	.0	.8	1.0	.5	.2	.3	1.1	3.7	.0	.8	.0	.5	.0	.0	.0	.0	.0	8.7
300	.3	1.4	.6	.6	.8	1.0	2.2	1.9	1.4	2.1	2.5	.8	.3	1.3	.2	.3	.0	17.8
330	1.0	3.3	2.1	2.2	.8	.8	5.1	3.2	.8	1.4	2.4	.3	1.6	1.7	.4	.0	.0	27.3
360	.0	.0	.2	1.0	.3	.2	.3	1.0	1.3	.0	.2	.0	.2	.6	.0	.0	.0	5.1
STILLE	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
TOTAL	1.4	13.7	10.2	7.9	3.2	11.8	13.0	11.3	4.1	7.4	5.4	2.4	2.1	6.0	1.0	.0	.0	100.0

FORDDELING PÅ VINDHASTIGHET

0.0- 2.0 M/S	2.0- 4.0 M/S	4.0- 6.0 M/S	OVER 6.0 M/S
33.2	39.7	19.7	7.3

FORDDELING AV STABILITETSKLASSENE

11.3	37.0	29.7	21.9
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ANTALL TIMER = 720, ANTALL OBSERVASJONER = 620

Tabell 11c:

Vind: Ås
 Stabilitet: dT (25-10 m)
 Periode: Mai 1982

	0.0- 2.0 M/S				2.0- 4.0 M/S				4.0- 6.0 M/S				OVER 6.0 M/S				ROSE
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
30	.0	.4	.3	.0	.0	2.0	.3	.0	.0	1.1	.4	.0	.0	.3	.1	.1	5.0
60	.0	.1	.4	.0	.1	1.1	1.4	.0	.0	.0	.1	.0	.0	.0	.1	.0	3.4
90	.0	.5	1.8	.1	.0	1.5	.8	.0	.0	1.1	.7	.0	.0	.0	.0	.0	6.5
120	.1	2.0	1.1	.5	.7	5.9	2.3	.1	.3	2.9	.4	.0	.0	.5	.1	.0	17.1
150	.3	1.1	1.1	.5	2.2	2.3	.4	.1	.1	.7	.3	.0	.0	.5	.1	.0	9.8
180	.0	.8	.5	.5	.4	1.6	.4	.0	.0	.3	.4	.0	.0	.5	.3	.0	6.1
210	.0	.1	1.1	.0	.4	1.0	2.2	.0	.0	1.1	1.1	.0	.0	.5	.0	.0	7.5
240	.1	.3	.4	.1	.0	.5	.5	.0	.3	.5	.5	.0	.0	.3	.1	.0	3.5
270	.0	.4	.5	.0	.0	.3	1.1	.0	.0	.0	.0	.0	.0	1.2	.0	.0	3.5
300	1.4	1.9	.7	.1	2.3	1.1	2.0	.4	1.0	.5	1.8	.0	.0	.3	.0	.0	13.5
330	1.1	1.4	1.9	.7	1.8	1.4	3.1	2.4	1.5	1.0	1.4	.0	.0	.1	.1	.0	18.3
360	.0	.5	.5	.4	.4	.5	1.2	.3	.0	.1	.1	.0	.0	.3	.0	.0	4.8
STILLE	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8
TOTAL	3.0	10.2	10.4	3.1	8.5	19.2	15.4	4.1	3.1	9.8	7.2	0.0	0.0	4.6	1.1	.0	1100.0

FORDELING PR VINDHASTIGHET

0.0- 2.0 M/S	2.0- 4.0 M/S	4.0- 6.0 M/S	OVER 6.0 M/S
26.7	47.2	20.7	5.9

FORDELING AV STABILITETSKLASSENE

14.5	43.9	34.2	7.4
14.5	43.9	34.2	7.4

ANTALL TIMER = 744, ANTALL OBSERVASJONER = 733

12 b)

RR. VIK TANGEN	APR 1982	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	SUM MM																						
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0																						
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1																						
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0																						
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0																						
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2																						
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0																						
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0																						
8	2.5	4.0	1.5	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5																						
9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.6																						
10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0																						
11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0																						
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0																						
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0																						
14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0																						
15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0																						
16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0																						
17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0																						
18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0																						
19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0																						
20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0																						
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0																						
22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0																						
23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0																						
24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0																						
25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0																						
26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0																						
27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0																						
28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0																						
29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0																						
30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0																						
																								1.1	2.0	2.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19.8

ANT. TIMER M/REGN: 26
 ANT. DQGN M/REGN: 6

12 c)

HR	MIK	TARGE	MAI	1082	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	SURF
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																												148.9	

ANT. TIMER M/REGM: 126
 ANT. DMMGM M/REGM: 15

Tabell 13: Månedsvise nedbørmengder.

	Tangen Brevik (mm)	Jomfruland	
		mm	% av normal
Mars 1982	87.0	116	290
April 1982	19.8	18	38
Mai 1982	148.9	144	313

11 REFERANSER

- (1) Sivertsen, B. Kvartalsvise bearbejdelser av meteorologiske data, oversendt som bilag til brev 22.2.77, 27.4.77, 6.9.77 og 14.10.77.
- (2) Sivertsen, B. Meteorologiske data fra nedre Telemark, høsten 1977. Lillestrøm 1978. (NILU OR 8/78.)
- (3) Sivertsen, B. Meteorologiske data fra nedre Telemark, vinteren 1977/78, Lillestrøm 1978. (NILU OR 2/78.)
- (4) Sivertsen, B. Meteorologiske data fra nedre Telemark, våren 1978. Lillestrøm 1979. (NILU OR 9/79.)
- (5) Sivertsen, B. Meteorologiske data fra nedre Telemark, sommeren 1978. Lillestrøm 1979. (NILU OR 12/79.)
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- (7) Sivertsen, B.
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- (10) Sivertsen, B.
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- (13) Sivertsen, B.
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- (14) Sivertsen, B.
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- (15) Sivertsen, B.
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Lillestrøm 1981. (NILU OR 21/81.)
- (16) Sivertsen, B.
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- (17) Sivertsen, B.
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- (18) Sivertsen, B.
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Lillestrøm 1982. (NILU OR 51/82.)

VEDLEGG A

GRAFISK FRAMSTILLING AV TIDSFORLØPET AV:

TEMPERATUR (°C)

TEMPERATURDIFFERENS (25-10 M)

VINDHASTIGHET (M/S)

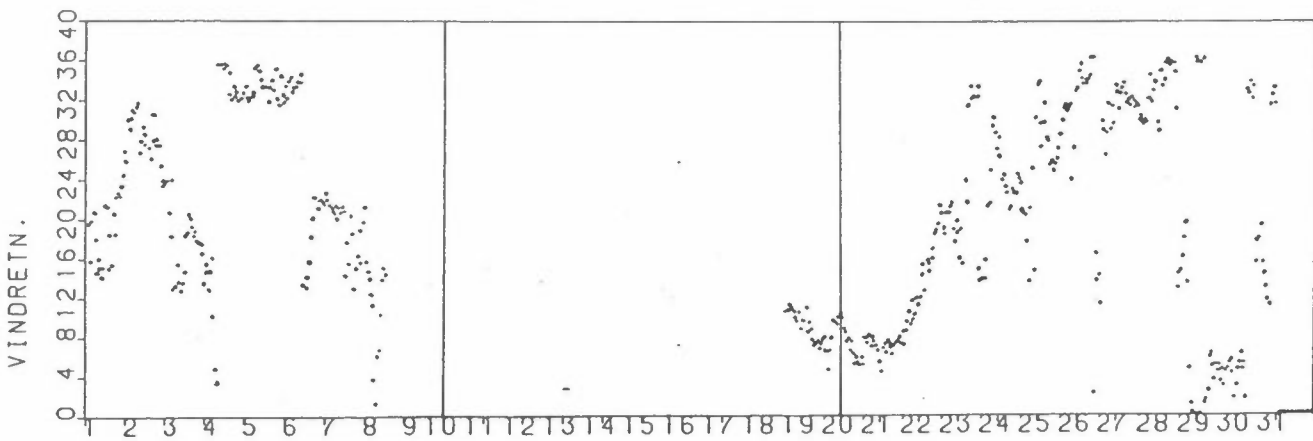
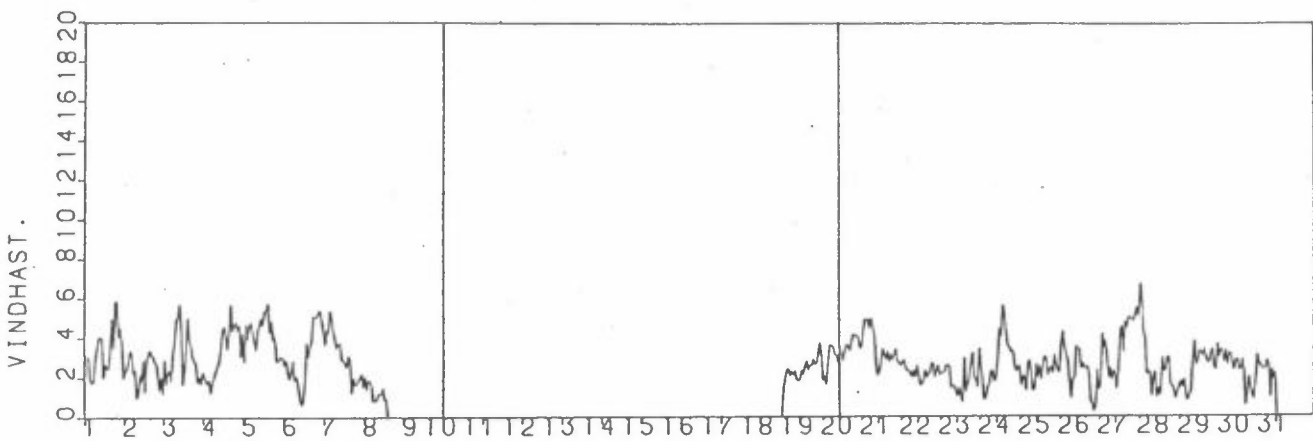
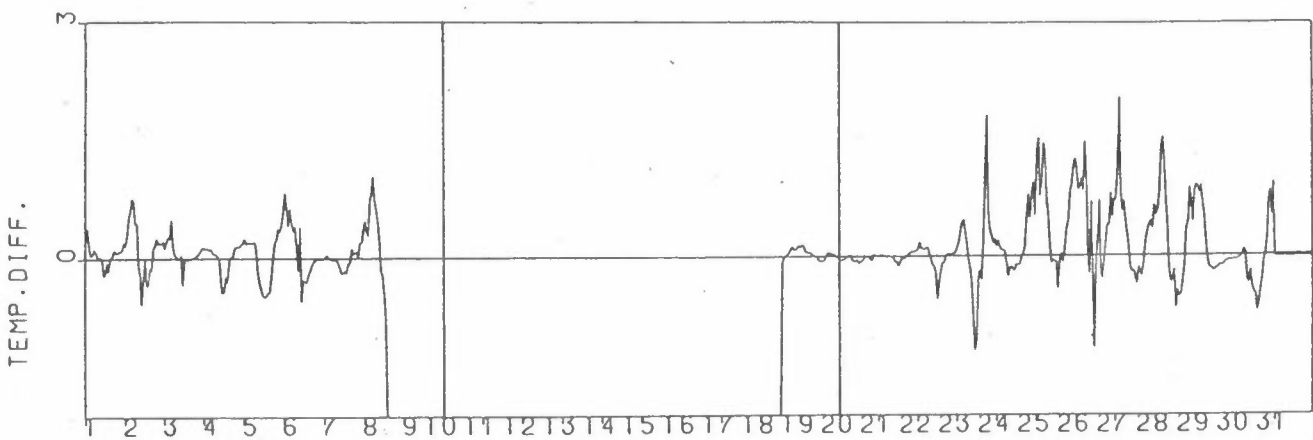
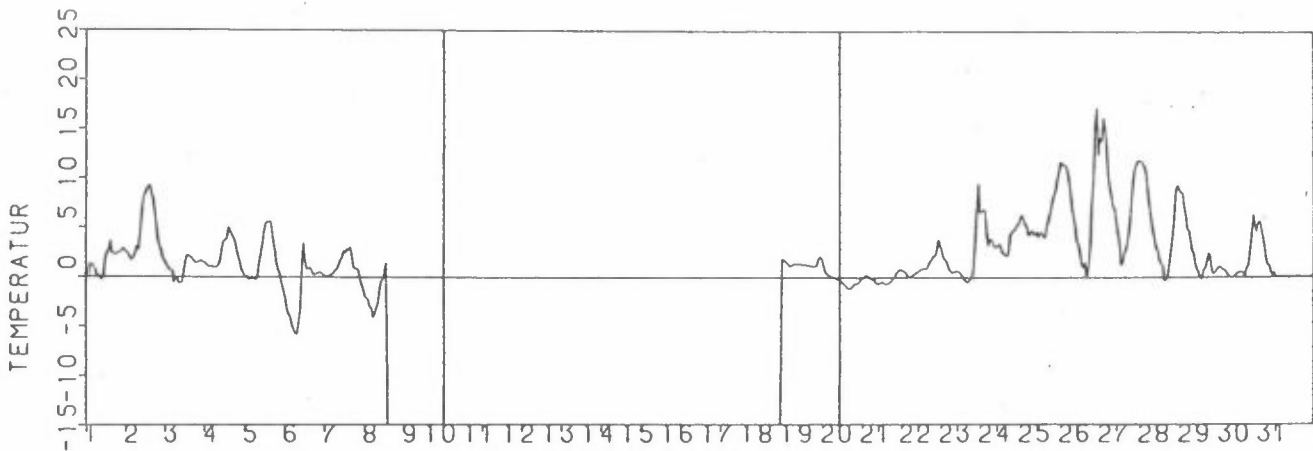
VINDRETNING (DEKAGRADER)

FOR MÅNEDENE MARS, APRIL OG MAI 1982.

VED ÅS.

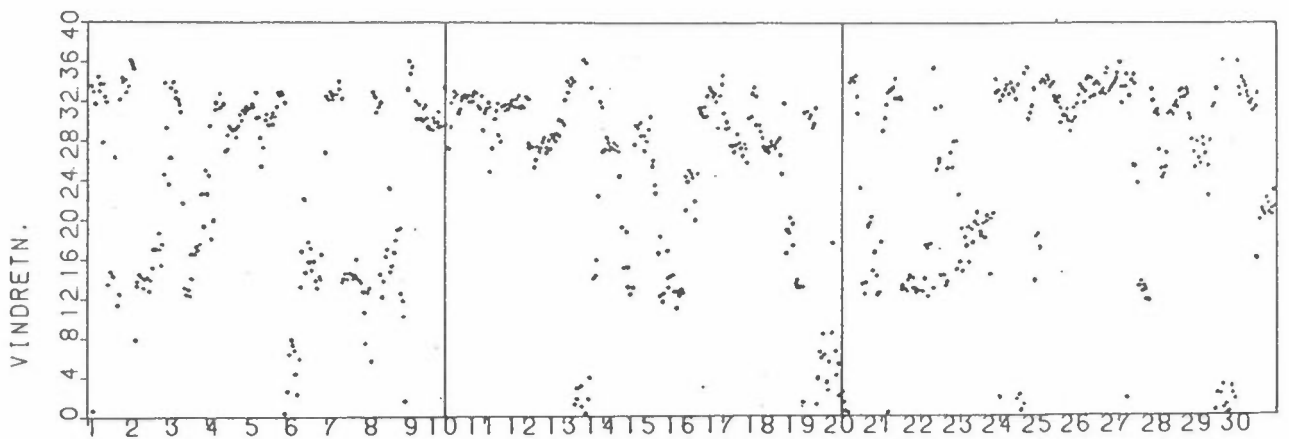
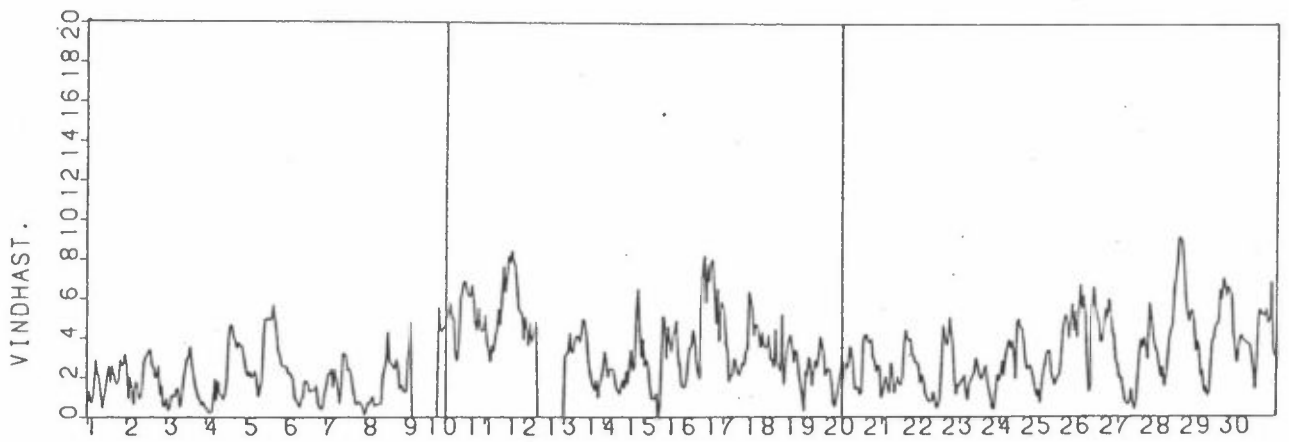
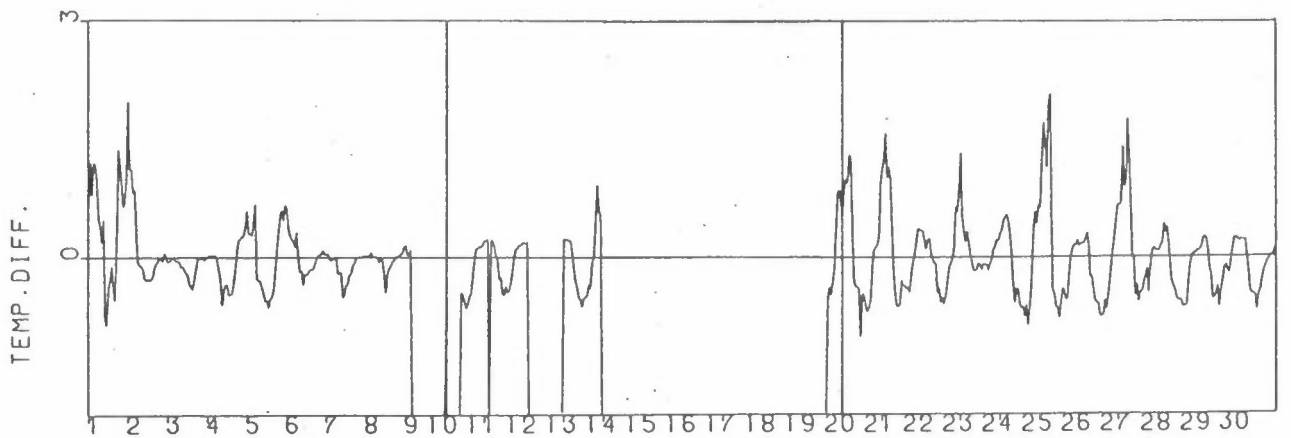
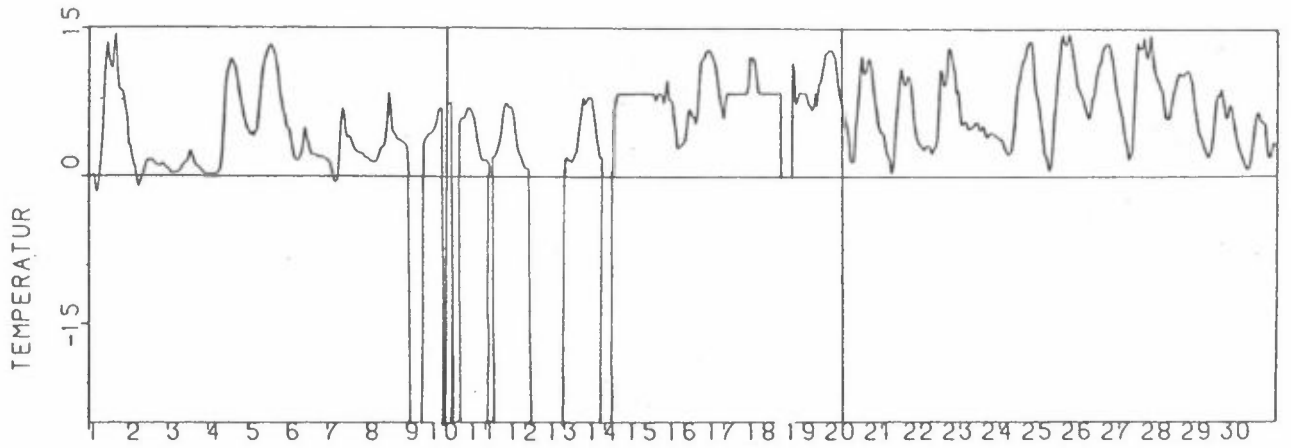
STASJON: 338 ÅS

PERIODE: MAR. 1982



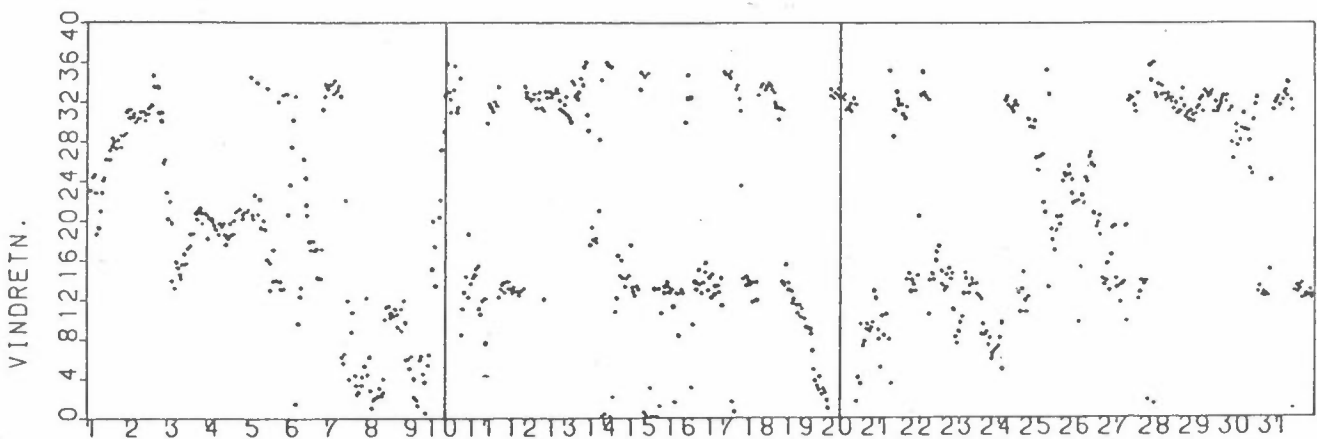
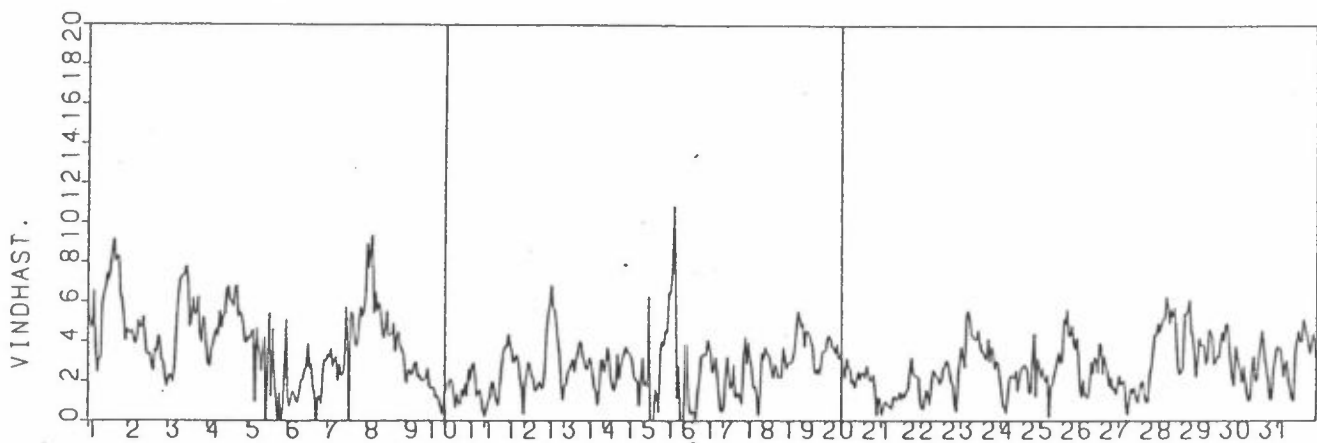
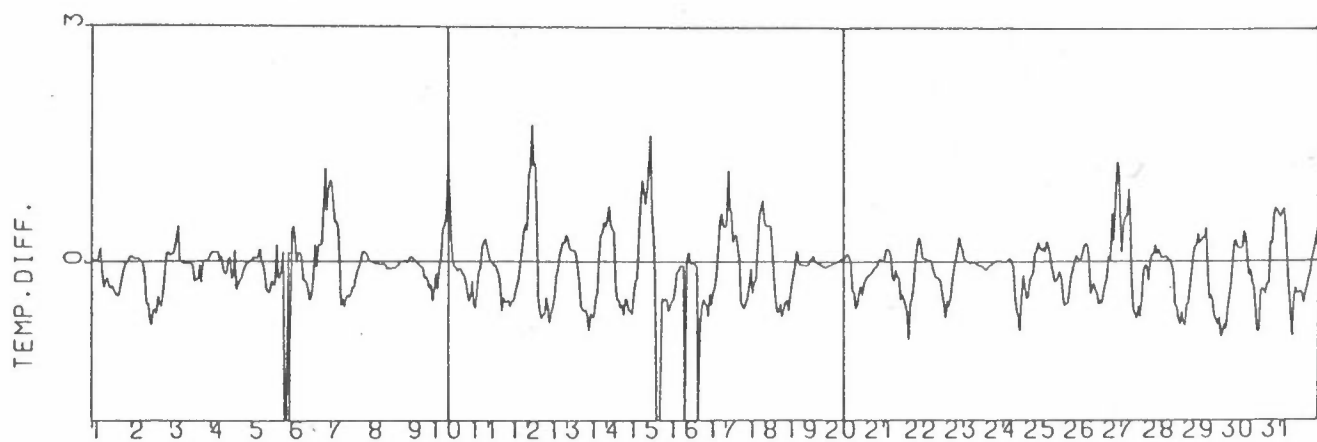
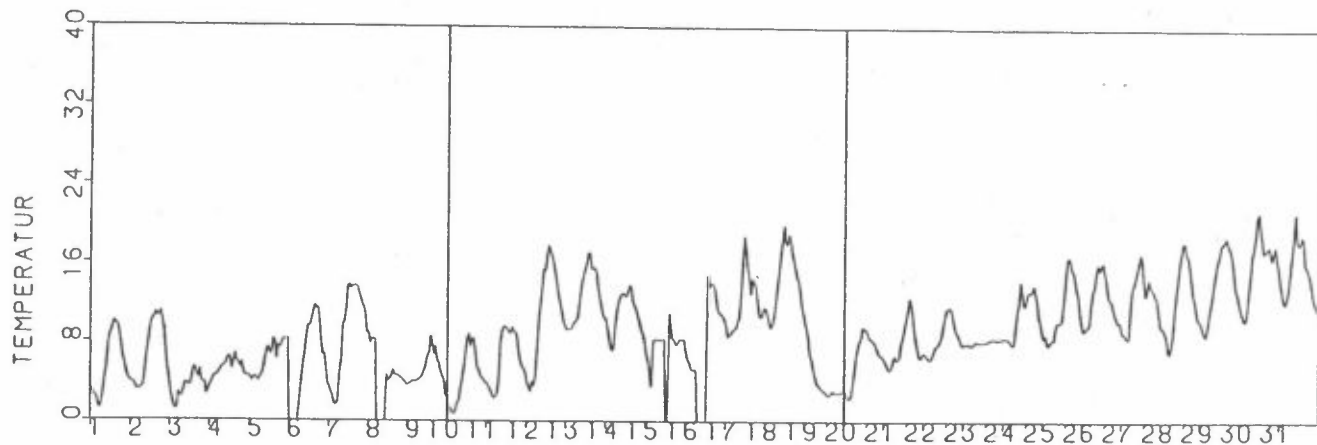
STASJON: 338 ÅS

PERIODE: APR. 1982



STASJON: 338 ÅS

PERIODE: MAI 1982



VEDLEGG B

LISTE AV TIMEVISE DATA FRA
NEDRE TELEMAR
1.3.82-31.5.82

FØLGENDE PARAMETRE ER GITT I DEN SYNOPSISKE LISTEN AV DATA:

- T-ÅS = lufttemperatur ($^{\circ}\text{C}$) 3 m over bakken ved Ås
DT-ÅS = temperaturforskjell ($^{\circ}\text{C}$) 25-10 m ved Ås
RH-ÅS = relativ fuktighet (%) 3 m over bakken ved Ås
F-ÅS = vindstyrke (m/s) 25 m over bakken ved Ås
D-ÅS = vindretning (dekagrader; 9 = vind fra øst,
18 = vind fra sør, osv.)
25 m over bakken ved Ås
- F-HER = vindstyrke (m/s) 30 m over bakken på Herøya
D-HER = vindretning (dekagrader) på Herøya
P-TA = nedbørmåling ved Tangen, Brevik.

Observasjon 99 betegner manglende data. Tallet 10 eller 20 foran vindretningsangivelsen ved Ås angir at kvaliteten av middelvindretningen over timen er dårlig. (20-data anvendes ikke i de statistiske bearbeidelsene).

	FF	D-T	T10M	DD	T3M	RH		FF	D-T	T10M	DD	T3M	RH
1 3 82 1	2.8	.24	-.3	15.	-.1	.82	4 3 82 1	2.1	-.13	1.5	15.	1.7	.84
1 3 82 2	3.1	.39	.4	20.	.4	.83	4 3 82 2	1.9	.14	1.2	15.	1.4	.85
1 3 82 3	3.0	.16	1.4	20.	1.4	.83	4 3 82 3	1.7	-.13	1.1	13.	1.2	.85
1 3 82 4	1.9	.04	1.3	16.	1.5	.83	4 3 82 4	1.9	.11	1.1	15.	1.3	.85
1 3 82 5	1.8	.05	1.0	21.	1.1	.83	4 3 82 5	1.3	.14	1.1	16.	1.3	.85
1 3 82 6	1.9	.13	.8	18.	.9	.83	4 3 82 6	1.8	.07	.9	10.	1.1	.84
1 3 82 7	2.9	.10	.2	15.	.4	.83	4 3 82 7	2.0	.07	1.0	5.	1.1	.84
1 3 82 8	3.5	.03	.2	16.	.5	.83	4 3 82 8	2.3	.06	1.0	3.	1.1	.84
1 3 82 9	4.0	.02	-.0	15.	.2	.84	4 3 82 9	2.6	.04	1.2	35.	1.4	.80
1 3 82 10	4.1	.03	-.4	14.	-.1	.84	4 3 82 10	2.8	-.02	1.6	35.	2.0	.76
1 3 82 11	4.0	-.02	.3	15.	.5	.84	4 3 82 11	3.5	-.27	2.8	36.	3.4	.70
1 3 82 12	2.0	-.22	1.9	21.	2.3	.85	4 3 82 12	4.4	-.43	3.6	35.	4.5	.61
1 3 82 13	2.7	-.17	2.5	21.	2.9	.81	4 3 82 13	4.6	-.42	3.7	36.	4.6	.55
1 3 82 14	2.5	-.05	2.7	15.	2.8	.84	4 3 82 14	4.1	-.22	3.9	35.	4.5	.52
1 3 82 15	2.5	-.17	3.7	18.	4.0	.85	4 3 82 15	3.5	-.30	5.0	35.	6.0	.47
1 3 82 16	3.5	.03	2.4	15.	2.6	.82	4 3 82 16	4.4	-.00	4.7	32.	4.8	.46
1 3 82 17	5.0	.02	2.4	20.	2.6	.80	4 3 82 17	5.7	.03	4.2	32.	4.4	.40
1 3 82 18	3.5	.11	2.3	19.	2.3	.80	4 3 82 18	4.4	.03	3.9	33.	3.9	.40
1 3 82 19	5.9	.09	2.4	22.	2.5	.76	4 3 82 19	4.7	.13	3.5	32.	3.4	.39
1 3 82 20	5.9	.07	2.6	23.	2.7	.74	4 3 82 20	4.9	.16	2.7	33.	2.6	.41
1 3 82 21	4.1	.11	2.6	22.	2.7	.74	4 3 82 21	4.4	.16	1.9	32.	1.9	.43
1 3 82 22	4.6	.10	2.7	23.	2.8	.73	4 3 82 22	4.7	.15	1.5	32.	1.3	.42
1 3 82 23	3.8	.11	2.9	24.	3.0	.71	4 3 82 23	3.1	.19	.4	32.	.5	.40
1 3 82 24	2.0	.21	2.7	27.	2.5	.72	4 3 82 24	4.3	.20	.4	33.	.2	.39
2 3 82 1	2.3	.16	2.6	26.	2.6	.71	5 3 82 1	2.8	.26	-.1	33.	-.4	.41
2 3 82 2	2.5	.31	2.3	30.	2.1	.72	5 3 82 2	4.7	.19	.1	32.	-.0	.40
2 3 82 3	2.9	.53	2.0	29.	1.7	.73	5 3 82 3	3.9	.21	-.3	32.	-.5	.42
2 3 82 4	3.4	.61	1.7	30.	1.6	.73	5 3 82 4	4.6	.21	-.2	32.	-.4	.42
2 3 82 5	3.2	.77	2.0	31.	1.7	.71	5 3 82 5	4.8	.20	-.2	32.	-.4	.44
2 3 82 6	2.3	.72	2.5	31.	1.6	.67	5 3 82 6	4.3	.20	-.1	33.	-.3	.43
2 3 82 7	2.4	.45	3.2	31.	2.6	.58	5 3 82 7	3.8	.22	-.3	35.	-.6	.41
2 3 82 8	1.0	.46	2.7	1032.	2.1	.63	5 3 82 8	3.4	.12	-.3	35.	-.3	.41
2 3 82 9	1.2	-.06	4.4	27.	4.5	.52	5 3 82 9	4.5	-.14	1.1	35.	1.7	.35
2 3 82 10	2.2	-.22	6.6	28.	7.0	.41	5 3 82 10	4.6	-.30	2.2	34.	3.2	.31
2 3 82 11	1.8	-.58	8.0	29.	8.9	.37	5 3 82 11	5.0	-.37	3.1	33.	4.2	.29
2 3 82 12	2.9	-.26	8.4	28.	8.0	.35	5 3 82 12	4.6	-.46	4.4	33.	5.2	.24
2 3 82 13	1.3	0.00	9.9	1028.	9.7	.34	5 3 82 13	5.4	-.48	5.3	33.	5.9	.19
2 3 82 14	3.0	-.33	9.1	2028.	9.4	.32	5 3 82 14	5.4	-.48	5.6	33.	6.4	.17
2 3 82 15	3.1	-.35	9.3	27.	9.4	.33	5 3 82 15	5.8	-.43	5.5	32.	6.5	.18
2 3 82 16	3.4	-.11	8.4	26.	8.5	.36	5 3 82 16	4.3	-.42	5.6	33.	6.7	.17
2 3 82 17	3.2	-.15	7.9	28.	8.1	.40	5 3 82 17	4.9	-.23	4.7	34.	5.2	.20
2 3 82 18	3.1	.14	6.5	30.	6.1	.41	5 3 82 18	3.9	.04	3.4	33.	3.4	.25
2 3 82 19	2.8	.17	5.1	28.	4.9	.47	5 3 82 19	4.1	.21	2.6	35.	2.2	.29
2 3 82 20	2.8	.26	3.7	27.	3.7	.49	5 3 82 20	2.9	.24	1.3	32.	1.0	.37
2 3 82 21	2.1	.19	3.1	27.	3.0	.52	5 3 82 21	2.8	.38	.7	31.	.2	.40
2 3 82 22	1.4	.21	2.6	25.	2.5	.57	5 3 82 22	3.1	.34	.2	34.	-.3	.41
2 3 82 23	2.1	.19	2.0	23.	1.9	.68	5 3 82 23	3.0	.42	-.6	33.	-1.1	.46
2 3 82 24	1.2	.23	1.6	1024.	1.1	.74	5 3 82 24	3.0	.60	-1.4	32.	-1.9	.51
3 3 82 1	2.9	.13	1.4	24.	1.4	.77	6 3 82 1	2.6	.83	-2.0	33.	-2.7	.58
3 3 82 2	1.6	.22	1.0	24.	.9	.81	6 3 82 2	2.9	.44	-3.2	32.	-3.8	.72
3 3 82 3	2.3	.28	.8	21.	.6	.80	6 3 82 3	2.3	.41	-3.8	34.	-4.4	.77
3 3 82 4	2.4	.25	.7	24.	.6	.82	6 3 82 4	1.9	.63	-4.0	34.	-4.8	.73
3 3 82 5	1.9	.50	.6	18.	.4	.82	6 3 82 5	2.4	.45	-4.9	33.	-5.6	.81
3 3 82 6	3.2	.16	-.6	13.	-.5	.89	6 3 82 6	2.9	.35	-5.4	33.	-5.9	.78
3 3 82 7	3.7	.06	-.1	13.	.1	.87	6 3 82 7	1.9	.41	-5.8	33.	-6.4	.74
3 3 82 8	5.0	.03	-.1	15.	.2	.85	6 3 82 8	2.1	.14	-6.0	34.	-6.0	.79
3 3 82 9	5.1	0.00	-.6	14.	-.4	.85	6 3 82 9	1.7	-.16	-4.7	34.	-3.8	.68
3 3 82 10	5.7	0.00	-.6	13.	-.4	.85	6 3 82 10	1.1	.40	-3.5	34.	-2.2	.64
3 3 82 11	4.7	.05	-.5	14.	-.3	.85	6 3 82 11	.6	-.54	.3	1000.	1.6	.50
3 3 82 12	1.7	-.34	.6	15.	.9	.85	6 3 82 12	.8	-.27	3.4	13.	2.8	.40
3 3 82 13	2.3	-.02	1.7	18.	2.0	.86	6 3 82 13	1.8	-.28	1.7	13.	1.5	.51
3 3 82 14	3.7	.02	2.2	19.	2.5	.87	6 3 82 14	3.8	-.31	.7	14.	.8	.63
3 3 82 15	5.1	-.02	2.1	20.	2.4	.87	6 3 82 15	3.1	-.21	.3	16.	1.1	.69
3 3 82 16	5.8	0.00	2.7	20.	2.3	.86	6 3 82 16	3.5	-.16	1.0	18.	1.4	.77
3 3 82 17	3.6	.00	1.9	19.	2.1	.82	6 3 82 17	3.9	-.10	.6	20.	.9	.83
3 3 82 18	3.0	.01	1.6	18.	1.9	.82	6 3 82 18	5.1	-.03	.3	22.	.5	.85
3 3 82 19	2.9	.02	1.4	19.	1.6	.83	6 3 82 19	5.1	-.02	.3	22.	.5	.85
3 3 82 20	2.7	.05	1.4	19.	1.6	.83	6 3 82 20	5.1	-.01	.3	21.	.6	.83
3 3 82 21	1.8	.06	1.5	18.	1.7	.84	6 3 82 21	5.3	-.00	.5	22.	.7	.78
3 3 82 22	2.1	.08	1.7	17.	1.8	.84	6 3 82 22	5.4	-.01	.5	22.	.7	.76
3 3 82 23	1.7	.11	1.6	16.	1.8	.84	6 3 82 23	5.0	-.02	.4	22.	.6	.79
3 3 82 24	2.3	.15	1.4	13.	1.5	.84	6 3 82 24	4.4	-.00	.2	21.	.5	.80

	FF	D-T	T10M	DD	T3M	RH		FF	D-T	T10M	DD	T3M	RH
7 3 82 1	3.7	-.00	.1	23.	.3	.81	10 3 82 1	99.0	99.00	99.0	99.	99.0	99.00
7 3 82 2	4.5	.05	-.1	22.	.1	.83	10 3 82 2	99.0	99.00	99.0	99.	99.0	99.00
7 3 82 3	4.2	.01	.1	21.	.3	.84	10 3 82 3	99.0	99.00	99.0	99.	99.0	99.00
7 3 82 4	5.4	-.01	.2	21.	.5	.85	10 3 82 4	99.0	99.00	99.0	99.	99.0	99.00
7 3 82 5	5.0	-.02	.3	21.	.6	.88	10 3 82 5	99.0	99.00	99.0	99.	99.0	99.00
7 3 82 6	4.4	-.02	.4	21.	.6	.89	10 3 82 6	99.0	99.00	99.0	99.	99.0	99.00
7 3 82 7	4.0	-.00	.7	21.	.9	.87	10 3 82 7	99.0	99.00	99.0	99.	99.0	99.00
7 3 82 8	3.5	-.02	.8	20.	1.0	.85	10 3 82 8	99.0	99.00	99.0	99.	99.0	99.00
7 3 82 9	3.7	-.06	1.2	21.	1.4	.83	10 3 82 9	99.0	99.00	99.0	99.	99.0	99.00
7 3 82 10	3.8	-.12	1.7	21.	2.1	.79	10 3 82 10	99.0	99.00	99.0	99.	99.0	99.00
7 3 82 11	2.9	-.19	1.9	21.	2.4	.77	10 3 82 11	99.0	99.00	99.0	99.	99.0	99.00
7 3 82 12	2.9	-.18	2.6	21.	2.9	.73	10 3 82 12	99.0	99.00	99.0	99.	99.0	99.00
7 3 82 13	2.8	-.15	2.3	14.	2.6	.75	10 3 82 13	99.0	99.00	99.0	99.	99.0	99.00
7 3 82 14	2.5	-.19	2.8	19.	3.1	.73	10 3 82 14	99.0	99.00	99.0	99.	99.0	99.00
7 3 82 15	3.1	-.05	2.6	15.	2.7	.75	10 3 82 15	99.0	99.00	99.0	99.	99.0	99.00
7 3 82 16	2.9	-.07	3.0	20.	3.3	.71	10 3 82 16	99.0	99.00	99.0	99.	99.0	99.00
7 3 82 17	1.2	.13	2.1	13.	2.3	.77	10 3 82 17	99.0	99.00	99.0	99.	99.0	99.00
7 3 82 18	2.0	.05	1.0	13.	1.2	.84	10 3 82 18	99.0	99.00	99.0	99.	99.0	99.00
7 3 82 19	1.7	.08	.8	15.	1.0	.84	10 3 82 19	99.0	99.00	99.0	99.	99.0	99.00
7 3 82 20	1.7	.10	.9	16.	1.1	.83	10 3 82 20	99.0	99.00	99.0	99.	99.0	99.00
7 3 82 21	1.9	.01	.6	19.	.8	.82	10 3 82 21	99.0	99.00	99.0	99.	99.0	99.00
7 3 82 22	2.0	.20	-.3	15.	-.2	.86	10 3 82 22	99.0	99.00	99.0	99.	99.0	99.00
7 3 82 23	2.2	.20	-.9	20.	-1.2	.87	10 3 82 23	99.0	99.00	99.0	99.	99.0	99.00
7 3 82 24	1.5	.37	-1.3	21.	-1.5	.82	10 3 82 24	99.0	99.00	99.0	99.	99.0	99.00
8 3 82 1	2.1	.48	-2.0	16.	-2.1	.88	11 3 82 1	99.0	99.00	99.0	99.	99.0	99.00
8 3 82 2	1.4	.35	-2.1	15.	-2.5	.88	11 3 82 2	99.0	99.00	99.0	99.	99.0	99.00
8 3 82 3	1.9	.29	-2.4	14.	-2.6	.89	11 3 82 3	99.0	99.00	99.0	99.	99.0	99.00
8 3 82 4	1.9	.72	-3.1	12.	-3.2	.87	11 3 82 4	99.0	99.00	99.0	99.	99.0	99.00
8 3 82 5	1.6	.84	-3.2	11.	-4.0	.86	11 3 82 5	99.0	99.00	99.0	99.	99.0	99.00
8 3 82 6	.8	1.04	-4.2	4.	-4.8	.85	11 3 82 6	99.0	99.00	99.0	99.	99.0	99.00
8 3 82 7	.9	.73	-3.8	1.	-4.0	.85	11 3 82 7	99.0	99.00	99.0	99.	99.0	99.00
8 3 82 8	.9	.62	-3.2	6.	-3.3	.84	11 3 82 8	99.0	99.00	99.0	99.	99.0	99.00
8 3 82 9	1.2	.48	-2.7	7.	-2.6	.85	11 3 82 9	99.0	99.00	99.0	99.	99.0	99.00
8 3 82 10	1.2	.23	-1.3	10.	-1.3	.84	11 3 82 10	99.0	99.00	99.0	99.	99.0	99.00
8 3 82 11	1.2	-.16	-.4	14.	-.2	.79	11 3 82 11	99.0	99.00	99.0	99.	99.0	99.00
8 3 82 12	1.5	-.21	-.3	15.	-.0	.70	11 3 82 12	99.0	99.00	99.0	99.	99.0	99.00
8 3 82 13	.9	-.43	.4	14.	.8	.63	11 3 82 13	99.0	99.00	99.0	99.	99.0	99.00
8 3 82 14	1.0	-.78	1.4	20.11.	99.0	.59	11 3 82 14	99.0	99.00	99.0	99.	99.0	99.00
8 3 82 15	99.0	99.00	99.0	99.	99.0	99.00	11 3 82 15	99.0	99.00	99.0	99.	99.0	99.00
8 3 82 16	99.0	99.00	99.0	99.	99.0	99.00	11 3 82 16	99.0	99.00	99.0	99.	99.0	99.00
8 3 82 17	99.0	99.00	99.0	99.	99.0	99.00	11 3 82 17	99.0	99.00	99.0	99.	99.0	99.00
8 3 82 18	99.0	99.00	99.0	99.	99.0	99.00	11 3 82 18	99.0	99.00	99.0	99.	99.0	99.00
8 3 82 19	99.0	99.00	99.0	99.	99.0	99.00	11 3 82 19	99.0	99.00	99.0	99.	99.0	99.00
8 3 82 20	99.0	99.00	99.0	99.	99.0	99.00	11 3 82 20	99.0	99.00	99.0	99.	99.0	99.00
8 3 82 21	99.0	99.00	99.0	99.	99.0	99.00	11 3 82 21	99.0	99.00	99.0	99.	99.0	99.00
8 3 82 22	99.0	99.00	99.0	99.	99.0	99.00	11 3 82 22	99.0	99.00	99.0	99.	99.0	99.00
8 3 82 23	99.0	99.00	99.0	99.	99.0	99.00	11 3 82 23	99.0	99.00	99.0	99.	99.0	99.00
8 3 82 24	99.0	99.00	99.0	99.	99.0	99.00	11 3 82 24	99.0	99.00	99.0	99.	99.0	99.00
9 3 82 1	99.0	99.00	99.0	99.	99.0	99.00	12 3 82 1	99.0	99.00	99.0	99.	99.0	99.00
9 3 82 2	99.0	99.00	99.0	99.	99.0	99.00	12 3 82 2	99.0	99.00	99.0	99.	99.0	99.00
9 3 82 3	99.0	99.00	99.0	99.	99.0	99.00	12 3 82 3	99.0	99.00	99.0	99.	99.0	99.00
9 3 82 4	99.0	99.00	99.0	99.	99.0	99.00	12 3 82 4	99.0	99.00	99.0	99.	99.0	99.00
9 3 82 5	99.0	99.00	99.0	99.	99.0	99.00	12 3 82 5	99.0	99.00	99.0	99.	99.0	99.00
9 3 82 6	99.0	99.00	99.0	99.	99.0	99.00	12 3 82 6	99.0	99.00	99.0	99.	99.0	99.00
9 3 82 7	99.0	99.00	99.0	99.	99.0	99.00	12 3 82 7	99.0	99.00	99.0	99.	99.0	99.00
9 3 82 8	99.0	99.00	99.0	99.	99.0	99.00	12 3 82 8	99.0	99.00	99.0	99.	99.0	99.00
9 3 82 9	99.0	99.00	99.0	99.	99.0	99.00	12 3 82 9	99.0	99.00	99.0	99.	99.0	99.00
9 3 82 10	99.0	99.00	99.0	99.	99.0	99.00	12 3 82 10	99.0	99.00	99.0	99.	99.0	99.00
9 3 82 11	99.0	99.00	99.0	99.	99.0	99.00	12 3 82 11	99.0	99.00	99.0	99.	99.0	99.00
9 3 82 12	99.0	99.00	99.0	99.	99.0	99.00	12 3 82 12	99.0	99.00	99.0	99.	99.0	99.00
9 3 82 13	99.0	99.00	99.0	99.	99.0	99.00	12 3 82 13	99.0	99.00	99.0	99.	99.0	99.00
9 3 82 14	99.0	99.00	99.0	99.	99.0	99.00	12 3 82 14	99.0	99.00	99.0	99.	99.0	99.00
9 3 82 15	99.0	99.00	99.0	99.	99.0	99.00	12 3 82 15	99.0	99.00	99.0	99.	99.0	99.00
9 3 82 16	99.0	99.00	99.0	99.	99.0	99.00	12 3 82 16	99.0	99.00	99.0	99.	99.0	99.00
9 3 82 17	99.0	99.00	99.0	99.	99.0	99.00	12 3 82 17	99.0	99.00	99.0	99.	99.0	99.00
9 3 82 18	99.0	99.00	99.0	99.	99.0	99.00	12 3 82 18	99.0	99.00	99.0	99.	99.0	99.00
9 3 82 19	99.0	99.00	99.0	99.	99.0	99.00	12 3 82 19	99.0	99.00	99.0	99.	99.0	99.00
9 3 82 20	99.0	99.00	99.0	99.	99.0	99.00	12 3 82 20	99.0	99.00	99.0	99.	99.0	99.00
9 3 82 21	99.0	99.00	99.0	99.	99.0	99.00	12 3 82 21	99.0	99.00	99.0	99.	99.0	99.00
9 3 82 22	99.0	99.00	99.0	99.	99.0	99.00	12 3 82 22	99.0	99.00	99.0	99.	99.0	99.00
9 3 82 23	99.0	99.00	99.0	99.	99.0	99.00	12 3 82 23	99.0	99.00	99.0	99.	99.0	99.00
9 3 82 24	99.0	99.00	99.0	99.	99.0	99.00	12 3 82 24	99.0	99.00	99.0	99.	99.0	99.00

	FF	D-T	T10M	DD	T3M	RH		FF	D-T	T10M	DD	T3M	RH
19 3 82 1	1.8	.12	1.3	10.	1.4	.85	22 3 82 1	2.2	.10	.5	12.	.7	.88
19 3 82 2	2.3	.16	1.1	10.	1.3	.85	22 3 82 2	1.6	.18	.7	14.	.9	.87
19 3 82 3	2.1	.14	1.2	11.	1.4	.85	22 3 82 3	1.7	.10	.7	15.	1.0	.87
19 3 82 4	2.5	.08	1.2	9.	1.5	.85	22 3 82 4	1.9	.11	.8	12.	1.0	.88
19 3 82 5	2.8	.06	1.1	10.	1.4	.85	22 3 82 5	2.4	.09	.7	16.	1.0	.88
19 3 82 6	2.3	.06	1.1	9.	1.3	.85	22 3 82 6	1.9	.11	.7	15.	1.0	.88
19 3 82 7	2.6	.05	1.1	9.	1.3	.84	22 3 82 7	2.2	.13	1.2	14.	1.3	.88
19 3 82 8	2.5	.05	1.0	7.	1.2	.83	22 3 82 8	2.2	.04	1.5	16.	1.8	.88
19 3 82 9	2.9	.02	1.0	7.	1.2	.83	22 3 82 9	2.7	-.02	1.8	17.	2.0	.89
19 3 82 10	2.6	.01	1.0	7.	1.3	.83	22 3 82 10	2.7	-.10	2.1	18.	2.5	.85
19 3 82 11	2.6	.01	1.0	7.	1.3	.82	22 3 82 11	2.0	-.12	2.0	19.	2.4	.83
19 3 82 12	3.1	-.03	1.7	7.	2.3	.79	22 3 82 12	2.3	-.21	2.5	19.	3.0	.79
19 3 82 13	3.7	-.05	2.0	8.	2.4	.78	22 3 82 13	2.6	-.54	3.7	21.	4.3	.68
19 3 82 14	3.3	-.05	1.8	8.	2.2	.79	22 3 82 14	2.1	-.34	3.2	20.	3.7	.68
19 3 82 15	1.8	-.05	1.2	7.	1.6	.84	22 3 82 15	2.2	-.18	2.7	19.	3.1	.72
19 3 82 16	2.0	-.03	.6	6.	.9	.85	22 3 82 16	2.2	-.07	1.9	18.	2.3	.81
19 3 82 17	1.6	.02	.3	5.	.6	.85	22 3 82 17	2.3	-.08	1.7	20.	2.1	.83
19 3 82 18	2.7	.06	.2	7.	.4	.85	22 3 82 18	2.6	.00	1.5	20.	1.7	.84
19 3 82 19	3.6	.04	.1	8.	.4	.84	22 3 82 19	2.6	.04	1.1	21.	1.3	.87
19 3 82 20	3.6	.05	-.0	10.	.2	.85	22 3 82 20	2.5	.04	.7	21.	.8	.87
19 3 82 21	3.5	.04	-.1	9.	.2	.85	22 3 82 21	1.4	.03	.4	19.	.6	.88
19 3 82 22	3.1	.03	-.2	9.	.1	.86	22 3 82 22	1.5	.04	.4	18.	.6	.89
19 3 82 23	3.1	0.00	-.3	10.	-.0	.86	22 3 82 23	1.6	.05	.5	20.	.7	.88
19 3 82 24	2.7	-.01	-.4	10.	-.1	.87	22 3 82 24	1.3	.06	.6	18.	.8	.87
20 3 82 1	3.1	-.04	-.4	10.	-.1	.86	23 3 82 1	1.0	.11	.5	16.	.7	.87
20 3 82 2	3.4	-.04	-.5	9.	-.2	.85	23 3 82 2	1.5	.19	.4	19.	.6	.87
20 3 82 3	2.8	-.03	-.7	8.	-.4	.85	23 3 82 3	1.0	.32	.2	15.	.3	.88
20 3 82 4	3.4	-.02	-.8	8.	-.5	.84	23 3 82 4	.7	.44	-.0	24.	-.1	.89
20 3 82 5	3.7	-.01	-1.1	8.	-.8	.83	23 3 82 5	3.0	.46	-.4	22.	-.9	.86
20 3 82 6	3.6	.00	-1.2	7.	-.9	.83	23 3 82 6	1.2	.32	-.5	31.	-.6	.87
20 3 82 7	3.3	.03	-1.3	7.	-1.0	.81	23 3 82 7	1.6	.16	-.7	33.	-.4	.89
20 3 82 8	3.8	.02	-1.2	6.	-.9	.80	23 3 82 8	2.1	-.03	-.4	32.	.1	.87
20 3 82 9	4.2	-.05	-1.0	5.	-.6	.80	23 3 82 9	2.7	-.14	-.4	32.	.3	.87
20 3 82 10	4.1	-.05	-.8	6.	-.4	.80	23 3 82 10	3.2	-.34	.6	32.	1.5	.82
20 3 82 11	4.1	-.06	-.7	5.	-.3	.81	23 3 82 11	1.9	-.76	3.2	32.	4.4	.72
20 3 82 12	4.0	-.03	-.7	5.	-.3	.82	23 3 82 12	1.9	-1.18	6.6	33.	7.0	.55
20 3 82 13	3.5	-.09	-.5	6.	-.1	.82	23 3 82 13	1.5	-1.06	9.4	1015.	9.5	.42
20 3 82 14	3.5	-.05	-.3	5.	.1	.81	23 3 82 14	3.5	-.25	6.4	14.	9.3	.58
20 3 82 15	4.3	-.05	-.2	8.	.2	.82	23 3 82 15	2.6	-.16	4.4	14.	4.6	.68
20 3 82 16	4.9	-.02	.0	7.	.3	.80	23 3 82 16	1.9	-.29	6.3	14.	6.7	.67
20 3 82 17	4.9	-.01	.1	8.	.4	.80	23 3 82 17	.9	.21	6.7	16.	4.7	.67
20 3 82 18	4.9	.02	.1	8.	.3	.79	23 3 82 18	.9	1.22	4.4	21.	4.2	.78
20 3 82 19	4.4	.00	-.2	7.	.0	.82	23 3 82 19	1.5	1.79	3.1	21.	2.7	.83
20 3 82 20	5.0	-.03	-.3	8.	-.0	.79	23 3 82 20	1.6	.58	3.8	25.	3.2	.71
20 3 82 21	4.5	-.05	-.4	7.	-.1	.79	23 3 82 21	2.3	.34	3.7	29.	3.6	.64
20 3 82 22	4.1	.04	-.3	7.	-.0	.78	23 3 82 22	2.3	.27	3.3	30.	3.2	.66
20 3 82 23	2.8	.01	-.7	6.	-.4	.83	23 3 82 23	1.7	.16	3.0	28.	3.1	.64
20 3 82 24	2.1	.03	-.8	5.	-.5	.83	23 3 82 24	2.0	.23	2.9	27.	3.1	.67
21 3 82 1	2.3	.02	-.7	4.	-.5	.82	24 3 82 1	2.9	.13	3.2	28.	3.4	.68
21 3 82 2	2.7	.02	-.6	7.	-.4	.81	24 3 82 2	4.5	.21	3.3	26.	3.4	.70
21 3 82 3	3.5	.04	-.5	7.	-.2	.79	24 3 82 3	4.0	.12	2.7	24.	2.8	.77
21 3 82 4	3.2	.01	-.7	6.	-.4	.83	24 3 82 4	5.6	.08	2.3	24.	2.5	.81
21 3 82 5	2.9	.00	-.8	8.	-.5	.86	24 3 82 5	5.3	.10	2.3	23.	2.4	.83
21 3 82 6	3.3	0.00	-.8	7.	-.5	.87	24 3 82 6	4.3	.07	2.1	22.	2.2	.86
21 3 82 7	2.8	.02	-.7	7.	-.4	.87	24 3 82 7	3.5	-.09	2.3	21.	2.5	.85
21 3 82 8	3.2	.01	-.5	6.	-.2	.87	24 3 82 8	3.5	-.25	4.2	21.	4.6	.74
21 3 82 9	2.9	0.00	-.4	7.	-.1	.86	24 3 82 9	3.2	-.14	4.5	23.	4.8	.70
21 3 82 10	3.1	-.02	-.2	7.	.1	.86	24 3 82 10	3.4	-.12	4.7	22.	5.0	.73
21 3 82 11	3.4	-.07	.2	7.	.5	.84	24 3 82 11	2.7	-.16	4.8	22.	5.0	.75
21 3 82 12	2.8	-.05	.4	8.	.7	.84	24 3 82 12	2.3	-.18	5.2	24.	5.4	.73
21 3 82 13	2.8	-.11	.6	7.	1.0	.83	24 3 82 13	2.4	-.10	5.3	24.	5.4	.74
21 3 82 14	2.6	-.07	.7	7.	1.1	.83	24 3 82 14	2.6	-.10	5.8	23.	5.9	.72
21 3 82 15	2.7	-.01	.6	8.	.8	.84	24 3 82 15	1.6	-.10	6.2	21.	6.3	.70
21 3 82 16	2.9	-.03	.5	9.	.8	.85	24 3 82 16	2.0	0.00	5.8	20.	5.8	.73
21 3 82 17	2.5	-.01	.5	9.	.7	.85	24 3 82 17	2.1	.04	5.3	20.	5.3	.77
21 3 82 18	2.3	.01	.1	10.	.4	.87	24 3 82 18	1.3	.12	5.0	17.	4.9	.79
21 3 82 19	2.4	.05	-.0	9.	.2	.89	24 3 82 19	2.7	.51	4.1	14.	3.9	.85
21 3 82 20	2.2	.05	-.1	12.	.2	.88	24 3 82 20	2.3	.80	4.4	21.	4.0	.83
21 3 82 21	2.0	.08	.1	10.	.3	.88	24 3 82 21	2.2	.49	4.7	1025.	4.3	.79
21 3 82 22	2.4	.06	.2	10.	.5	.88	24 3 82 22	1.3	.80	4.3	1015.	3.7	.83
21 3 82 23	2.0	.08	.3	12.	.6	.88	24 3 82 23	1.4	.94	4.1	1030.	3.2	.79
21 3 82 24	2.6	.09	.4	11.	.7	.88	24 3 82 24	2.7	.52	4.6	33.	3.9	.75

	FF	D-T	T10M	DD	T3M	RH		FF	D-T	T10M	DD	T3M	RH
25 3 82 1	2.0	1.31	3.9	34.	3.0	.84	28 3 82 1	1.0	.52	2.6	1029.	1.8	.75
25 3 82 2	2.6	1.50	4.4	27.	3.2	.84	28 3 82 2	1.5	.58	1.6	28.	1.0	.79
25 3 82 3	1.9	.76	4.5	29.	3.2	.84	28 3 82 3	1.1	.80	1.3	35.	-.1	.83
25 3 82 4	2.7	.97	3.9	32.	3.2	.85	28 3 82 4	3.0	1.38	1.2	33.	.5	.74
25 3 82 5	3.0	1.43	3.9	29.	3.3	.84	28 3 82 5	2.3	1.51	-.3	34.	-1.2	.87
25 3 82 6	3.0	1.36	5.2	28.	4.4	.79	28 3 82 6	2.3	1.26	-.5	35.	-1.2	.95
25 3 82 7	2.1	.73	5.7	28.	5.3	.74	28 3 82 7	3.0	.71	-.1	36.	-.5	.80
25 3 82 8	2.4	.56	6.5	25.	6.0	.71	28 3 82 8	2.9	.41	.6	35.	.9	.75
25 3 82 9	2.5	.21	7.4	24.	7.2	.67	28 3 82 9	1.6	-.14	2.2	36.	2.9	.67
25 3 82 10	2.2	-.08	8.1	25.	8.0	.63	28 3 82 10	1.6	-.32	3.7	36.	4.7	.56
25 3 82 11	3.1	-.03	8.6	25.	8.5	.61	28 3 82 11	1.4	-.29	5.9	34.	6.5	.51
25 3 82 12	2.6	-.06	9.7	24.	9.5	.54	28 3 82 12	.9	-.16	8.8	1031.	8.2	.40
25 3 82 13	2.3	-.05	10.5	27.	10.3	.51	28 3 82 13	1.3	-.65	9.2	13.	9.9	.24
25 3 82 14	2.2	-.40	11.5	28.	11.7	.44	28 3 82 14	1.5	-.42	8.7	14.	8.6	.25
25 3 82 15	3.8	-.03	11.4	30.	11.4	.39	28 3 82 15	1.8	-.51	8.5	14.	8.6	.26
25 3 82 16	4.3	.04	11.1	31.	11.0	.38	28 3 82 16	1.5	-.47	8.3	16.	8.5	.24
25 3 82 17	3.5	-.08	11.3	31.	11.3	.37	28 3 82 17	1.9	-.32	7.0	18.	7.1	.30
25 3 82 18	3.2	.11	10.7	31.	10.3	.39	28 3 82 18	1.3	-.10	6.0	19.	6.0	.33
25 3 82 19	2.8	.36	9.9	31.	9.1	.42	28 3 82 19	.8	.37	4.7	13.	3.9	.40
25 3 82 20	1.9	.46	8.5	31.	7.7	.44	28 3 82 20	1.1	.43	4.6	5.	3.3	.45
25 3 82 21	1.0	.82	6.9	24.	5.4	.60	28 3 82 21	1.3	.87	3.6	1.	2.7	.52
25 3 82 22	1.9	.92	6.1	27.	5.5	.61	28 3 82 22	2.9	.70	2.5	0.	1.9	.61
25 3 82 23	1.9	1.17	5.1	33.	3.7	.68	28 3 82 23	3.8	.45	2.4	0.	2.1	.62
25 3 82 24	3.6	1.23	3.5	33.	2.7	.74	28 3 82 24	2.6	.83	1.3	36.	.8	.71
26 3 82 1	3.4	1.12	3.3	35.	2.5	.77	29 3 82 1	2.7	.91	.7	36.	.1	.75
26 3 82 2	3.4	.85	2.4	35.	1.7	.80	29 3 82 2	3.3	.89	.4	36.	-.2	.78
26 3 82 3	2.4	.88	1.2	34.	.2	.86	29 3 82 3	3.3	.80	-.1	0.	-.5	.81
26 3 82 4	2.7	1.00	.9	33.	.1	.84	29 3 82 4	3.1	.91	-.3	34.	-.5	.84
26 3 82 5	2.4	.83	1.4	33.	.1	.85	29 3 82 5	3.5	.67	.7	1.	.3	.75
26 3 82 6	2.4	1.45	-.1	34.	-1.0	.89	29 3 82 6	3.0	.53	.8	2.	.6	.73
26 3 82 7	2.6	1.02	.8	34.	.7	.83	29 3 82 7	2.7	.20	1.5	3.	1.4	.66
26 3 82 8	2.1	.09	2.6	34.	3.7	.70	29 3 82 8	2.7	-.01	2.4	4.	2.6	.55
26 3 82 9	.8	-.21	7.1	36.	7.8	.53	29 3 82 9	3.2	-.13	2.0	6.	2.3	.59
26 3 82 10	.7	.70	9.7	36.	10.0	.44	29 3 82 10	3.4	-.14	.5	5.	.9	.78
26 3 82 11	.3	-.10	15.3	1002.	14.2	.32	29 3 82 11	2.5	-.17	.3	4.	.7	.86
26 3 82 12	.7	-1.15	17.0	16.	15.8	.22	29 3 82 12	2.4	-.18	.5	5.	1.0	.87
26 3 82 13	2.4	-.04	12.3	13.	11.6	.38	29 3 82 13	3.7	-.14	.7	4.	1.1	.82
26 3 82 14	1.4	.21	14.3	14.	13.9	.36	29 3 82 14	3.0	-.15	1.0	5.	1.4	.80
26 3 82 15	1.5	.72	13.5	11.	13.4	.39	29 3 82 15	3.4	-.10	1.0	3.	1.4	.80
26 3 82 16	4.2	-.13	16.0	30.	16.3	.06	29 3 82 16	3.3	-.11	.8	5.	1.1	.84
26 3 82 17	3.4	-.27	15.2	29.	15.6	.02	29 3 82 17	2.7	-.11	.7	3.	1.0	.89
26 3 82 18	3.9	-.06	13.0	26.	13.0	.13	29 3 82 18	3.4	-.08	.6	4.	.9	.90
26 3 82 19	3.0	.18	10.3	28.	9.9	.24	29 3 82 19	2.6	-.06	.3	5.	.6	.92
26 3 82 20	2.0	.42	3.9	31.	3.0	.35	29 3 82 20	3.2	-.04	.1	5.	.3	.92
26 3 82 21	2.5	.39	8.1	29.	7.5	.34	29 3 82 21	3.2	-.05	-.0	6.	.2	.90
26 3 82 22	1.8	.81	7.0	31.	6.0	.42	29 3 82 22	2.7	-.03	-.1	4.	.1	.90
26 3 82 23	2.3	.50	6.8	29.	6.3	.42	29 3 82 23	2.3	-.04	-.1	2.	.2	.90
26 3 82 24	2.2	.74	5.4	33.	4.4	.53	29 3 82 24	2.9	-.03	.1	3.	.3	.98
27 3 82 1	1.4	.70	4.3	32.	3.1	.61	30 3 82 1	2.9	-.04	.3	5.	.5	.85
27 3 82 2	2.3	1.15	3.4	31.	2.7	.67	30 3 82 2	2.4	-.03	.4	5.	.6	.83
27 3 82 3	4.3	2.02	1.1	32.	.7	.79	30 3 82 3	2.4	-.02	.5	6.	.6	.83
27 3 82 4	4.6	.85	1.5	33.	1.1	.76	30 3 82 4	2.9	-.00	.5	5.	.7	.81
27 3 82 5	3.2	.58	2.5	33.	2.0	.72	30 3 82 5	2.2	.01	.4	5.	.6	.81
27 3 82 6	4.8	.71	2.8	32.	2.6	.71	30 3 82 6	.6	.10	-.0	2.	-.1	.85
27 3 82 7	4.4	.45	3.9	31.	4.2	.67	30 3 82 7	1.2	.05	.9	33.	1.6	.81
27 3 82 8	5.0	.30	5.2	32.	5.9	.64	30 3 82 8	2.0	-.29	1.1	32.	2.9	.74
27 3 82 9	5.0	.16	7.5	31.	7.8	.40	30 3 82 9	1.6	-.34	2.5	34.	3.9	.67
27 3 82 10	4.9	-.12	9.6	32.	10.0	.54	30 3 82 10	1.1	-.17	4.2	32.	4.6	.59
27 3 82 11	4.8	-.19	10.9	32.	11.2	.48	30 3 82 11	.9	-.36	6.2	1033.	6.5	.42
27 3 82 12	5.3	-.17	11.3	31.	11.2	.43	30 3 82 12	2.0	-.45	5.2	15.	5.1	.53
27 3 82 13	5.5	-.25	11.7	31.	11.9	.41	30 3 82 13	3.1	-.47	4.4	13.	4.8	.61
27 3 82 14	5.0	-.35	11.7	31.	12.1	.40	30 3 82 14	2.7	-.48	5.4	18.	4.2	.55
27 3 82 15	6.7	-.13	11.6	30.	11.4	.41	30 3 82 15	2.6	-.58	5.6	19.	6.3	.53
27 3 82 16	6.0	-.18	11.3	30.	11.4	.45	30 3 82 16	2.4	-.40	4.8	15.	5.3	.58
27 3 82 17	4.2	-.24	11.0	29.	11.1	.47	30 3 82 17	2.4	-.28	4.0	14.	4.3	.62
27 3 82 18	3.9	-.06	10.2	30.	10.0	.49	30 3 82 18	2.4	-.04	3.0	13.	3.1	.70
27 3 82 19	2.1	.19	9.0	1029.	7.6	.58	30 3 82 19	2.9	.03	1.8	12.	1.9	.82
27 3 82 20	2.3	.33	6.7	32.	6.1	.66	30 3 82 20	2.5	.23	1.1	11.	1.1	.89
27 3 82 21	2.2	.42	5.4	34.	4.8	.70	30 3 82 21	1.0	.72	1.2	1031.	.7	.89
27 3 82 22	1.0	.46	4.5	31.	3.9	.72	30 3 82 22	2.4	.83	.5	32.	.2	.90
27 3 82 23	2.1	.35	3.6	33.	3.2	.74	30 3 82 23	1.9	.52	.1	33.	-.1	.90
27 3 82 24	2.3	.66	2.8	33.	2.3	.75	30 3 82 24	2.2	.94	.5	31.	.0	.98

			FF	D-T	T10M	DD	T3M	RH
31	3	82	1	0.0	0.00	0.0	0.0	0.00
31	3	82	2	0.0	0.00	0.0	0.0	0.00
31	3	82	3	0.0	0.00	0.0	0.0	0.00
31	3	82	4	0.0	0.00	0.0	0.0	0.00
31	3	82	5	0.0	0.00	0.0	0.0	0.00
31	3	82	6	0.0	0.00	0.0	0.0	0.00
31	3	82	7	0.0	0.00	0.0	0.0	0.00
31	3	82	8	0.0	0.00	0.0	0.0	0.00
31	3	82	9	0.0	0.00	0.0	0.0	0.00
31	3	82	10	0.0	0.00	0.0	0.0	0.00
31	3	82	11	0.0	0.00	0.0	0.0	0.00
31	3	82	12	0.0	0.00	0.0	0.0	0.00
31	3	82	13	0.0	0.00	0.0	0.0	0.00
31	3	82	14	0.0	0.00	0.0	0.0	0.00
31	3	82	15	0.0	0.00	0.0	0.0	0.00
31	3	82	16	0.0	0.00	0.0	0.0	0.00
31	3	82	17	0.0	0.00	0.0	0.0	0.00
31	3	82	18	0.0	0.00	0.0	0.0	0.00
31	3	82	19	0.0	0.00	0.0	0.0	0.00
31	3	82	20	0.0	0.00	0.0	0.0	0.00
31	3	82	21	0.0	0.00	0.0	0.0	0.00
31	3	82	22	0.0	0.00	0.0	0.0	0.00
31	3	82	23	0.0	0.00	0.0	0.0	0.00
31	3	82	24	0.0	0.00	0.0	0.0	0.00

	FF	D-T	T10M	DD	T3M	RH		FF	D-T	T10M	DD	T3M	RH	
1 4 82 1	.7	.64	.3	1032.	-.3	.88	4	82 1	.6	.01	.2	24.	.5	.89
1 4 82 2	1.3	1.20	-.2	34.	-.8	.86	4	82 2	.3	.03	.3	1030.	.6	.89
1 4 82 3	.7	.78	.2	1.	-.7	.86	4	82 3	.3	.02	.3	1018.	.6	.88
1 4 82 4	.7	1.20	.1	33.	-1.3	.90	4	82 4	.3	.02	.3	20.	.6	.88
1 4 82 5	1.7	1.17	-1.5	32.	-1.9	.91	4	82 5	.9	.03	.3	31.	.6	.88
1 4 82 6	2.9	.97	-1.5	34.	-1.7	.91	4	82 6	2.0	.02	.3	32.	.6	.88
1 4 82 7	2.3	.40	-.1	33.	.4	.81	4	82 7	.9	-.05	.5	31.	.8	.88
1 4 82 8	1.0	.39	2.0	34.	3.2	.69	4	82 8	1.9	-.17	.8	33.	1.5	.88
1 4 82 9	1.3	.18	4.3	34.	5.0	.61	4	82 9	1.2	-.28	2.4	31.	3.1	.80
1 4 82 10	.4	.47	10.0	28.	2.8	.45	4	82 10	1.2	-.61	6.0	32.	7.0	.64
1 4 82 11	.9	-.77	12.1	32.	13.2	.35	4	82 11	.9	-.43	9.2	27.	9.8	.51
1 4 82 12	1.4	-.86	13.5	32.	14.2	.31	4	82 12	1.2	-.35	10.6	29.	10.9	.39
1 4 82 13	2.2	-.40	11.3	13.	11.6	.30	4	82 13	1.9	-.34	11.1	27.	11.5	.34
1 4 82 14	2.6	-.29	11.1	15.	11.0	.43	4	82 14	4.1	-.48	11.8	29.	12.3	.28
1 4 82 15	1.7	-1.12	10.9	14.	10.6	.43	4	82 15	4.7	-.48	11.9	29.	12.7	.28
1 4 82 16	2.6	-.39	13.5	21.	13.8	.38	4	82 16	4.7	-.45	11.3	29.	11.9	.30
1 4 82 17	2.2	-.55	14.4	26.	15.1	.31	4	82 17	4.1	-.32	11.0	29.	11.3	.33
1 4 82 18	1.8	.24	10.4	11.	10.3	.48	4	82 18	3.9	-.11	9.9	28.	9.9	.38
1 4 82 19	1.6	1.36	8.8	1012.	7.7	.58	4	82 19	3.5	-.11	8.8	29.	8.4	.44
1 4 82 20	1.8	1.22	8.8	32.	6.5	.63	4	82 20	3.8	.22	7.9	31.	7.5	.47
1 4 82 21	2.9	.93	8.6	34.	7.0	.61	4	82 21	3.6	.24	7.1	30.	6.8	.49
1 4 82 22	2.6	.64	7.9	34.	6.8	.60	4	82 22	3.7	.27	6.2	31.	5.9	.52
1 4 82 23	2.6	.69	6.8	34.	5.6	.64	4	82 23	3.3	.26	5.6	31.	5.5	.54
1 4 82 24	3.2	1.03	5.9	33.	4.7	.68	4	82 24	2.8	.42	4.9	31.	4.6	.57
2 4 82 1	2.7	1.97	3.2	33.	2.1	.81	5	82 1	2.3	.59	4.7	31.	4.3	.59
2 4 82 2	.9	1.10	3.0	34.	2.2	.82	5	82 2	2.1	.30	4.3	31.	4.0	.61
2 4 82 3	2.0	1.12	1.9	36.	1.0	.86	5	82 3	2.4	.31	4.5	32.	4.2	.61
2 4 82 4	1.6	.81	1.3	35.	.5	.87	5	82 4	2.0	.27	4.0	31.	3.8	.63
2 4 82 5	.7	.86	.7	8.	.0	.89	5	82 5	2.2	.46	4.7	33.	4.1	.62
2 4 82 6	1.8	.35	-.4	13.	-.4	.91	5	82 6	2.4	.67	4.6	30.	4.3	.63
2 4 82 7	1.8	-.07	-1.1	14.	-.9	.91	5	82 7	2.0	-.28	4.4	30.	7.3	.55
2 4 82 8	1.0	-.10	-.4	14.	-.3	.90	5	82 8	1.1	-.30	8.3	28.	8.9	.49
2 4 82 9	1.0	-.12	-.1	14.	.2	.89	5	82 9	1.5	-.31	10.3	25.	10.6	.44
2 4 82 10	1.5	-.16	.6	13.	.9	.88	5	82 10	1.9	-.40	11.4	27.	11.9	.41
2 4 82 11	2.8	-.27	1.3	14.	1.6	.87	5	82 11	4.2	-.45	12.0	30.	12.8	.38
2 4 82 12	3.1	-.30	1.4	14.	2.2	.86	5	82 12	5.1	-.56	12.5	31.	13.4	.34
2 4 82 13	3.2	-.26	1.6	13.	2.1	.86	5	82 13	4.9	-.54	13.0	30.	13.9	.30
2 4 82 14	3.4	-.29	1.7	14.	2.2	.86	5	82 14	5.1	-.64	13.3	30.	14.4	.28
2 4 82 15	3.5	-.29	1.7	15.	2.3	.86	5	82 15	4.9	-.53	13.2	30.	14.2	.27
2 4 82 16	2.6	-.23	1.5	17.	2.0	.88	5	82 16	5.0	-.50	12.7	31.	13.6	.29
2 4 82 17	2.6	-.12	1.2	17.	1.6	.90	5	82 17	5.7	-.41	12.2	30.	12.8	.30
2 4 82 18	2.0	-.07	1.2	17.	1.5	.90	5	82 18	4.9	-.14	11.2	31.	11.5	.31
2 4 82 19	2.1	-.04	1.0	19.	1.3	.89	5	82 19	4.3	.13	10.1	33.	9.7	.34
2 4 82 20	2.4	0.00	1.1	15.	1.4	.93	5	82 20	3.4	.31	8.4	33.	7.8	.42
2 4 82 21	1.2	-.03	1.3	17.	1.6	.90	5	82 21	3.2	.55	7.5	33.	6.7	.47
2 4 82 22	1.6	-.04	1.3	1025.	1.5	.91	5	82 22	2.7	.59	6.6	32.	5.8	.51
2 4 82 23	.6	.05	.9	34.	1.2	.89	5	82 23	2.6	.46	6.1	32.	5.4	.52
2 4 82 24	.7	-.00	.9	1029.	1.2	.88	5	82 24	2.6	.66	5.0	9.	4.0	.59
3 4 82 1	1.0	-.06	.7	24.	1.0	.88	6	82 1	2.6	.63	4.9	3.	4.0	.60
3 4 82 2	.4	-.05	.4	24.	.7	.87	6	82 2	2.2	.37	4.5	6.	3.9	.59
3 4 82 3	.5	-.02	.3	33.	.6	.88	6	82 3	2.3	.27	3.3	8.	3.2	.57
3 4 82 4	1.2	-.00	.3	34.	.6	.88	6	82 4	2.1	.23	2.4	7.	2.3	.59
3 4 82 5	1.2	-.03	.4	33.	.7	.88	6	82 5	1.9	.21	1.8	7.	1.7	.59
3 4 82 6	1.0	-.06	.4	32.	.8	.88	6	82 6	1.0	.12	1.6	4.	1.4	.58
3 4 82 7	1.5	-.04	.5	32.	.9	.88	6	82 7	.9	.32	1.6	2.	2.0	.62
3 4 82 8	1.5	-.06	.6	32.	1.1	.88	6	82 8	.7	-.02	2.1	6.	2.6	.56
3 4 82 9	.6	-.13	1.0	31.	1.5	.88	6	82 9	.6	-.19	2.5	13.	3.2	.56
3 4 82 10	.8	-.11	1.3	1022.	1.8	.89	6	82 10	1.0	-.16	3.7	1017.	4.1	.52
3 4 82 11	1.9	-.17	1.4	13.	1.9	.84	6	82 11	1.1	-.35	4.9	22.	5.5	.47
3 4 82 12	2.4	-.19	1.5	12.	2.0	.79	6	82 12	1.9	-.21	4.1	15.	4.6	.51
3 4 82 13	3.0	-.23	1.9	13.	2.4	.79	6	82 13	1.9	-.24	3.4	18.	3.9	.61
3 4 82 14	3.1	-.34	2.4	12.	3.1	.75	6	82 14	1.7	-.19	2.7	16.	3.2	.72
3 4 82 15	3.6	-.37	2.3	14.	2.8	.79	6	82 15	1.3	-.16	2.2	17.	2.7	.85
3 4 82 16	2.8	-.42	1.7	16.	2.3	.82	6	82 16	1.4	-.15	2.2	15.	2.7	.89
3 4 82 17	2.2	-.29	1.2	17.	1.7	.84	6	82 17	1.5	-.15	2.2	16.	2.8	.88
3 4 82 18	1.7	-.15	1.0	17.	1.4	.89	6	82 18	1.4	-.09	2.1	14.	2.4	.89
3 4 82 19	1.4	-.02	.9	17.	1.3	.89	6	82 19	1.7	-.03	1.9	13.	2.0	.89
3 4 82 20	1.0	-.02	.7	17.	1.0	.89	6	82 20	.8	.02	2.0	14.	2.0	.89
3 4 82 21	.9	-.02	.5	23.	.8	.89	6	82 21	.6	.04	2.0	14.	1.9	.89
3 4 82 22	.7	-.00	.3	19.	.6	.89	6	82 22	.4	.05	2.0	16.	2.1	.89
3 4 82 23	.8	-.05	.2	25.	.5	.88	6	82 23	.6	.09	1.8	27.	2.1	.89
3 4 82 24	.6	-.02	.3	23.	.5	.88	6	82 24	1.3	.03	1.7	32.	2.0	.89

	FF	D-T	T10M	DD	T3M	RH		FF	D-T	T10M	DD	T3M	RH
7 4 82 1	1.6	.05	1.5	32.	1.7	.80	10 4 82 1	4.5	99.00	7.7	29.	7.4	.50
7 4 82 2	2.3	.05	1.3	33.	1.6	.89	10 4 82 2	5.2	99.00	7.2	27.	7.0	.52
7 4 82 3	2.2	-.04	.5	33.	.8	.89	10 4 82 3	5.1	99.00	7.3	29.	7.1	.47
7 4 82 4	2.5	-.04	.0	32.	.3	.88	10 4 82 4	5.8	99.00	7.4	32.	7.1	.46
7 4 82 5	1.5	-.03	-.6	33.	-.3	.88	10 4 82 5	5.0	99.00	99.0	33.	99.0	.35
7 4 82 6	2.5	.00	-.7	33.	-.3	.88	10 4 82 6	5.1	99.00	99.0	32.	99.0	.37
7 4 82 7	2.1	0.00	-.2	34.	.2	.98	10 4 82 7	3.2	99.00	99.0	33.	99.0	.39
7 4 82 8	1.4	-.21	2.3	33.	3.5	.84	10 4 82 8	2.9	99.00	99.0	31.	4.8	.34
7 4 82 9	.7	-.21	5.5	32.	6.1	.70	10 4 82 9	3.6	99.00	5.3	31.	6.4	.28
7 4 82 10	1.6	-.18	6.8	1014.	7.1	.68	10 4 82 10	6.0	99.00	5.8	32.	7.0	.23
7 4 82 11	3.3	-.51	6.3	14.	6.7	.72	10 4 82 11	6.3	-.45	5.8	32.	6.8	.23
7 4 82 12	3.3	-.49	4.5	15.	5.2	.80	10 4 82 12	6.9	-.48	5.8	32.	6.7	.23
7 4 82 13	3.1	-.35	3.3	14.	4.4	.84	10 4 82 13	6.9	-.57	6.4	32.	7.5	.20
7 4 82 14	2.4	-.34	4.1	15.	4.7	.84	10 4 82 14	6.4	-.66	6.3	32.	8.2	.18
7 4 82 15	2.5	-.22	3.8	14.	4.3	.86	10 4 82 15	6.1	-.60	6.8	32.	8.1	.17
7 4 82 16	2.2	-.21	3.2	14.	3.7	.89	10 4 82 16	6.1	-.50	6.6	32.	7.7	.16
7 4 82 17	1.6	-.12	2.8	14.	3.2	.89	10 4 82 17	6.7	-.47	6.2	32.	7.0	.17
7 4 82 18	1.0	-.07	2.6	14.	2.9	.89	10 4 82 18	5.9	-.20	5.5	33.	6.0	.19
7 4 82 19	.7	-.03	2.4	14.	2.7	.89	10 4 82 19	4.8	-.02	4.4	33.	4.7	.22
7 4 82 20	.8	.00	2.3	14.	2.6	.89	10 4 82 20	4.4	.11	3.4	31.	3.3	.23
7 4 82 21	.8	.01	2.3	13.	2.6	.89	10 4 82 21	5.5	.11	2.6	31.	2.6	.32
7 4 82 22	.7	.00	2.2	13.	2.4	.89	10 4 82 22	4.5	.14	1.8	32.	1.6	.36
7 4 82 23	.6	.00	1.9	11.	2.3	.89	10 4 82 23	4.4	.11	1.4	29.	1.5	.39
7 4 82 24	.2	.03	1.8	7.	2.1	.89	10 4 82 24	4.4	.16	1.6	31.	1.6	.38
8 4 82 1	.4	.01	1.8	13.	2.1	.89	11 4 82 1	5.2	.21	1.6	31.	1.5	.38
8 4 82 2	.8	.02	1.6	13.	1.9	.88	11 4 82 2	3.7	.21	1.3	32.	1.2	.41
8 4 82 3	.7	.02	1.4	6.	1.7	.88	11 4 82 3	3.4	.23	1.1	31.	.9	.43
8 4 82 4	.9	.06	1.4	33.	1.7	.88	11 4 82 4	2.8	99.00	99.0	25.	99.0	.52
8 4 82 5	1.1	.00	1.4	32.	1.6	.88	11 4 82 5	3.7	.21	1.9	27.	1.8	.52
8 4 82 6	.6	.01	1.4	31.	1.6	.88	11 4 82 6	3.3	.21	1.8	30.	1.8	.44
8 4 82 7	.8	.00	1.6	31.	2.1	.88	11 4 82 7	4.2	.12	2.2	31.	2.3	.43
8 4 82 8	.6	-.00	2.1	1032.	2.5	.88	11 4 82 8	4.4	-.00	2.7	32.	3.6	.39
8 4 82 9	.8	-.07	2.7	14.	3.1	.89	11 4 82 9	5.5	-.05	3.2	29.	4.1	.48
8 4 82 10	.7	-.00	2.9	12.	3.3	.89	11 4 82 10	4.6	-.30	4.2	28.	5.8	.44
8 4 82 11	2.1	-.05	3.0	14.	3.3	.89	11 4 82 11	6.3	-.26	5.8	31.	6.4	.27
8 4 82 12	2.5	-.20	3.6	14.	4.2	.89	11 4 82 12	7.6	-.48	5.9	31.	7.7	.21
8 4 82 13	2.9	-.45	5.6	17.	6.3	.78	11 4 82 13	6.3	-.49	7.3	31.	7.9	.26
8 4 82 14	4.4	-.22	9.3	23.	9.7	.64	11 4 82 14	7.1	-.37	7.2	31.	7.5	.22
8 4 82 15	2.8	-.14	7.0	1015.	7.2	.76	11 4 82 15	8.2	-.46	6.8	32.	7.6	.17
8 4 82 16	2.8	-.11	4.4	15.	5.0	.88	11 4 82 16	7.8	-.43	7.0	31.	7.9	.17
8 4 82 17	2.6	-.05	4.3	17.	4.7	.89	11 4 82 17	8.4	-.33	6.6	32.	7.3	.20
8 4 82 18	2.5	-.04	4.1	18.	4.4	.89	11 4 82 18	7.8	-.17	5.5	31.	6.0	.22
8 4 82 19	2.9	-.00	3.7	19.	4.0	.89	11 4 82 19	7.7	.01	4.1	32.	4.2	.25
8 4 82 20	2.7	.02	3.6	19.	3.9	.89	11 4 82 20	6.7	.10	2.9	32.	3.1	.39
8 4 82 21	1.5	.02	3.6	12.	3.3	.89	11 4 82 21	5.5	.11	2.2	31.	1.9	.37
8 4 82 22	1.7	.05	3.4	12.	3.7	.89	11 4 82 22	5.4	.15	1.9	31.	1.8	.35
8 4 82 23	1.4	.05	3.3	10.	3.6	.89	11 4 82 23	5.2	.14	1.4	31.	1.3	.34
8 4 82 24	1.3	.13	3.2	2.	3.1	.89	11 4 82 24	3.9	.19	.9	31.	.8	.35
9 4 82 1	1.3	.15	2.8	33.	3.1	.89	12 4 82 1	5.1	.18	.6	32.	.6	.36
9 4 82 2	3.0	.02	.1	36.	.5	.96	12 4 82 2	4.5	.17	.7	32.	.6	.35
9 4 82 3	3.6	.03	-.3	35.	-.0	.87	12 4 82 3	3.6	.19	.6	27.	.5	.40
9 4 82 4	4.8	.09	-1.1	35.	-.4	.86	12 4 82 4	4.8	99.00	99.0	27.	99.0	.52
9 4 82 5	99.0	99.00	99.0	2032.	99.0	.95	12 4 82 5	3.9	99.00	99.0	27.	99.0	.52
9 4 82 6	99.0	99.00	99.0	32.	99.0	.99	12 4 82 6	4.1	99.00	99.0	25.	99.0	.52
9 4 82 7	99.0	99.00	99.0	30.	99.0	.87	12 4 82 7	4.5	99.00	99.0	26.	99.0	.51
9 4 82 8	99.0	99.00	99.0	32.	99.0	.86	12 4 82 8	4.8	99.00	99.0	27.	99.0	.48
9 4 82 9	99.0	99.00	99.0	30.	99.0	.88	12 4 82 9	99.0	99.00	99.0	27.	99.0	.45
9 4 82 10	99.0	99.00	99.0	30.	99.0	.89	12 4 82 10	99.0	99.00	99.0	27.	99.0	.45
9 4 82 11	99.0	99.00	5.2	31.	3.9	.90	12 4 82 11	99.0	99.00	99.0	28.	99.0	.44
9 4 82 12	99.0	99.00	3.7	31.	4.2	.88	12 4 82 12	99.0	99.00	99.0	28.	99.0	.42
9 4 82 13	99.0	99.00	3.9	30.	4.4	.81	12 4 82 13	99.0	99.00	99.0	27.	99.0	.44
9 4 82 14	99.0	99.00	4.2	29.	4.8	.84	12 4 82 14	99.0	99.00	99.0	27.	99.0	.47
9 4 82 15	99.0	99.00	4.3	29.	4.3	.85	12 4 82 15	99.0	99.00	99.0	29.	99.0	.47
9 4 82 16	99.0	99.00	4.3	29.	4.8	.86	12 4 82 16	99.0	99.00	99.0	27.	99.0	.46
9 4 82 17	99.0	99.00	4.6	30.	5.0	.76	12 4 82 17	99.0	99.00	99.0	28.	99.0	.47
9 4 82 18	99.0	99.00	4.9	30.	5.2	.79	12 4 82 18	99.0	99.00	99.0	28.	99.0	.47
9 4 82 19	99.0	99.00	5.6	30.	5.6	.63	12 4 82 19	99.0	99.00	99.0	28.	99.0	.49
9 4 82 20	99.0	99.00	6.4	31.	6.4	.53	12 4 82 20	99.0	99.00	99.0	28.	99.0	.51
9 4 82 21	5.5	99.00	6.8	29.	6.6	.53	12 4 82 21	99.0	99.00	99.0	28.	99.0	.52
9 4 82 22	4.5	99.00	6.8	29.	6.5	.51	12 4 82 22	99.0	99.00	99.0	30.	99.0	.51
9 4 82 23	4.3	99.00	99.0	33.	99.0	.35	12 4 82 23	99.0	99.00	99.0	30.	99.0	.52
9 4 82 24	4.5	99.00	99.0	34.	99.0	.37	12 4 82 24	99.0	99.00	99.0	29.	99.0	.52

	FF	D-T	T10M	DD	T3M	RH		FF	D-T	T10M	DD	T3M	RH		
13	4 82 1	3.1	.23	1.5	32.	1.2	.50	16	4 82 1	1.5	1.13	3.8	21.	3.6	.87
13	4 82 2	3.2	.22	1.8	34.	1.5	.47	16	4 82 2	2.0	.40	5.7	24.	5.2	.73
13	4 82 3	3.4	.22	1.4	33.	1.2	.51	16	4 82 3	3.0	.26	6.7	24.	6.4	.65
13	4 82 4	4.3	.19	1.6	33.	1.4	.44	16	4 82 4	3.5	.19	6.5	25.	6.4	.63
13	4 82 5	3.3	.21	1.2	34.	1.0	.42	16	4 82 5	3.6	.16	5.9	24.	5.8	.64
13	4 82 6	3.3	.05	1.5	34.	1.6	.41	16	4 82 6	4.4	.11	6.0	24.	5.9	.65
13	4 82 7	3.9	-.16	2.1	1.	2.3	.35	16	4 82 7	4.0	.03	5.2	22.	5.5	.71
13	4 82 8	4.1	-.31	2.4	2.	2.7	.33	16	4 82 8	2.8	-.12	6.2	20.	6.5	.70
13	4 82 9	4.1	-.38	4.0	3.	5.6	.28	16	4 82 9	2.3	-.28	8.7	24.	9.2	.59
13	4 82 10	3.8	-.53	5.3	3.	6.6	.24	16	4 82 10	2.0	-.51	11.3	31.	12.5	.42
13	4 82 11	4.3	-.54	6.6	1.	7.4	.26	16	4 82 11	5.1	-.52	11.7	31.	12.5	.30
13	4 82 12	5.0	-.64	7.9	36.	8.0	.32	16	4 82 12	7.6	-.55	11.8	31.	13.0	.25
13	4 82 13	4.8	-.53	7.1	36.	8.5	.20	16	4 82 13	8.2	-.58	12.4	30.	13.3	.16
13	4 82 14	4.1	-.51	7.5	0.	8.7	.16	16	4 82 14	5.8	-.59	12.6	30.	13.8	.20
13	4 82 15	3.0	-.49	7.9	2.	9.0	.16	16	4 82 15	7.7	-.61	12.7	32.	14.0	.16
13	4 82 16	2.3	-.35	7.8	4.	8.6	.14	16	4 82 16	6.8	-.50	12.4	33.	13.4	.17
13	4 82 17	2.0	-.42	7.9	33.	8.5	.13	16	4 82 17	7.9	-.47	12.0	33.	13.0	.19
13	4 82 18	1.6	-.07	6.4	1014.	6.6	.24	16	4 82 18	8.0	-.43	11.6	32.	12.3	.19
13	4 82 19	1.4	-.01	5.3	14.	5.3	.30	16	4 82 19	6.4	-.25	11.0	33.	11.4	.22
13	4 82 20	1.9	.43	3.7	16.	3.3	.45	16	4 82 20	4.7	-.08	10.1	32.	9.9	.28
13	4 82 21	1.0	.90	2.7	22.	2.0	.51	16	4 82 21	6.5	.15	8.4	29.	7.8	.41
13	4 82 22	1.6	.59	1.7	32.	1.0	.59	16	4 82 22	3.9	.12	7.5	32.	7.2	.36
13	4 82 23	2.0	.51	1.8	31.	1.0	.55	16	4 82 23	5.9	.10	6.7	33.	6.5	.31
13	4 82 24	2.5	99.00	99.0	27.	99.0	.60	16	4 82 24	5.7	.09	5.8	34.	5.5	.31
14	4 82 1	3.4	99.00	99.0	27.	99.0	.52	17	4 82 1	5.4	.14	7.3	31.	6.9	.45
14	4 82 2	2.7	99.00	99.0	28.	99.0	.52	17	4 82 2	3.8	99.00	8.3	30.	7.6	.52
14	4 82 3	2.0	99.00	99.0	28.	99.0	.60	17	4 82 3	3.4	99.00	8.3	29.	7.6	.52
14	4 82 4	2.5	99.00	99.0	27.	99.0	.83	17	4 82 4	1.8	99.00	8.3	29.	7.6	.52
14	4 82 5	2.5	99.00	99.0	27.	99.0	.73	17	4 82 5	2.2	99.00	8.3	27.	7.6	.52
14	4 82 6	2.4	3.15	6.5	27.	6.5	.75	17	4 82 6	2.1	99.00	3.3	27.	7.6	.52
14	4 82 7	2.0	2.95	7.7	28.	7.5	.60	17	4 82 7	3.0	99.00	8.1	27.	7.6	.52
14	4 82 8	1.5	2.67	8.2	27.	7.6	.52	17	4 82 8	2.8	3.02	8.2	27.	7.6	.52
14	4 82 9	1.4	2.48	8.3	27.	7.6	.52	17	4 82 9	2.3	2.67	8.3	28.	7.6	.52
14	4 82 10	1.2	2.63	8.5	24.	7.6	.52	17	4 82 10	2.1	2.51	8.3	27.	7.6	.52
14	4 82 11	1.6	2.65	8.3	19.	7.6	.52	17	4 82 11	2.4	2.35	8.3	27.	7.6	.51
14	4 82 12	2.0	2.54	8.3	2015.	7.6	.52	17	4 82 12	2.8	2.27	8.3	26.	7.6	.46
14	4 82 13	1.5	2.49	8.5	15.	7.6	.52	17	4 82 13	2.6	2.14	8.3	27.	7.6	.41
14	4 82 14	2.4	2.65	8.5	19.	7.6	.52	17	4 82 14	3.4	2.27	8.3	27.	7.6	.38
14	4 82 15	1.7	2.59	8.3	15.	7.6	.53	17	4 82 15	3.5	2.34	9.1	25.	99.0	.32
14	4 82 16	2.8	2.60	8.3	13.	7.6	.56	17	4 82 16	6.4	2.18	11.8	30.	99.0	.25
14	4 82 17	3.4	2.78	8.3	12.	7.6	.91	17	4 82 17	5.0	2.38	12.0	30.	99.0	.23
14	4 82 18	2.4	2.93	8.3	13.	7.6	.91	17	4 82 18	5.5	2.27	11.8	33.	99.0	.20
14	4 82 19	2.5	3.12	8.4	1027.	7.8	.80	17	4 82 19	4.1	99.00	11.3	33.	99.0	.19
14	4 82 20	5.2	3.10	8.3	29.	7.8	.59	17	4 82 20	4.7	3.03	9.9	32.	9.3	.31
14	4 82 21	5.5	3.13	8.3	29.	7.6	.49	17	4 82 21	4.7	3.13	8.4	29.	7.6	.46
14	4 82 22	4.6	3.12	8.3	29.	7.6	.52	17	4 82 22	4.2	3.12	8.3	29.	7.6	.51
14	4 82 23	3.0	3.15	8.3	28.	7.6	.52	17	4 82 23	3.5	3.14	8.3	29.	7.6	.52
14	4 82 24	4.0	3.15	8.3	28.	7.6	.52	17	4 82 24	4.3	3.14	8.3	28.	7.6	.49
15	4 82 1	2.6	3.15	8.3	27.	7.6	.52	18	4 82 1	3.7	3.15	8.3	27.	7.6	.52
15	4 82 2	2.9	3.15	8.3	28.	7.6	.52	18	4 82 2	3.5	3.15	8.3	27.	7.6	.52
15	4 82 3	2.7	3.15	8.3	29.	7.6	.72	18	4 82 3	3.6	3.15	8.3	27.	7.6	.52
15	4 82 4	1.6	3.15	8.3	1030.	7.5	.86	18	4 82 4	4.2	3.15	8.3	27.	7.6	.56
15	4 82 5	1.0	3.15	8.3	25.	7.6	.87	18	4 82 5	2.9	3.15	8.3	27.	7.6	.53
15	4 82 6	.9	3.15	8.1	26.	7.4	.98	18	4 82 6	3.0	3.15	8.3	1023.	7.6	.74
15	4 82 7	1.0	3.15	7.5	23.	6.8	.95	18	4 82 7	2.5	3.15	8.3	27.	7.6	.86
15	4 82 8	1.3	3.07	8.2	22.	7.5	.92	18	4 82 8	4.5	3.14	8.3	27.	7.6	.78
15	4 82 9	1.0	2.62	8.3	16.	7.6	.55	18	4 82 9	2.7	2.65	8.3	28.	7.6	.52
15	4 82 10	.5	2.57	8.3	18.	7.6	.52	18	4 82 10	2.7	2.25	8.3	28.	7.6	.52
15	4 82 11	2.9	2.53	8.1	12.	7.6	.65	18	4 82 11	2.3	2.33	8.3	26.	99.0	.52
15	4 82 12	5.1	2.55	7.3	12.	9.0	.74	18	4 82 12	5.2	2.77	99.0	24.	99.0	.45
15	4 82 13	4.8	2.47	3.5	12.	3.8	.67	18	4 82 13	1.7	99.00	99.0	31.	99.0	.25
15	4 82 14	3.0	99.00	9.6	17.	10.0	.46	18	4 82 14	2.6	99.00	99.0	1016.	99.0	.26
15	4 82 15	4.6	99.00	7.6	15.	7.9	.68	18	4 82 15	3.6	99.00	99.0	19.	99.0	.30
15	4 82 16	5.9	99.00	7.7	14.	7.7	.70	18	4 82 16	3.9	99.00	99.0	18.	99.0	.30
15	4 82 17	3.3	99.00	7.4	14.	7.5	.72	18	4 82 17	4.2	99.00	99.0	20.	12.5	.30
15	4 82 18	4.2	99.00	5.7	14.	6.0	.79	18	4 82 18	3.5	99.00	11.3	19.	12.0	.29
15	4 82 19	4.4	2.83	4.7	13.	4.6	.92	18	4 82 19	2.8	-.41	10.7	17.	11.2	.29
15	4 82 20	4.9	2.86	2.8	11.	3.3	.94	18	4 82 20	3.4	-.05	7.1	13.	7.1	.50
15	4 82 21	3.1	2.92	2.8	15.	2.9	.91	18	4 82 21	3.2	.01	7.4	14.	7.4	.76
15	4 82 22	2.6	99.00	3.0	12.	3.6	.90	18	4 82 22	2.2	99.00	8.3	13.	7.6	.91
15	4 82 23	1.6	99.00	3.2	15.	3.5	.90	18	4 82 23	1.6	99.00	8.3	15.	7.4	.96
15	4 82 24	1.6	99.00	3.3	12.	3.6	.89	18	4 82 24	1.1	99.00	8.3	15.	7.6	.99

	FF	D-T	T10M	DD	T3M	RH		FF	D-T	T10M	DD	T3M	RH
19 4 82 1	.3	3.15	8.3	1.	7.6	1.00	22 4 82 1	2.2	.33	2.8	13.	2.6	.91
19 4 82 2	2.4	3.15	8.3	31.	7.4	.98	22 4 82 2	1.9	.32	2.5	14.	2.5	.90
19 4 82 3	2.1	3.15	7.7	31.	6.7	1.00	22 4 82 3	1.2	.19	2.9	17.	2.9	.90
19 4 82 4	3.1	3.15	7.0	50.	6.2	.99	22 4 82 4	1.1	.08	3.0	17.	3.2	.90
19 4 82 5	2.8	3.15	7.0	30.	6.2	1.00	22 4 82 5	.8	.21	3.0	1012.	3.0	.89
19 4 82 6	1.6	3.15	6.5	29.	5.4	1.00	22 4 82 6	.8	.23	2.7	1017.	2.7	.89
19 4 82 7	2.3	3.15	6.8	29.	7.0	1.00	22 4 82 7	.8	.04	2.1	35.	2.4	.89
19 4 82 8	2.9	2.80	8.3	31.	7.4	.77	22 4 82 8	1.3	-.03	2.7	1013.	3.0	.89
19 4 82 9	2.5	2.65	6.9	1.	8.4	.48	22 4 82 9	1.0	-.09	2.9	31.	3.2	.89
19 4 82 10	3.1	99.00	9.2	4.	10.2	.41	22 4 82 10	.5	-.10	3.6	1025.	4.0	.89
19 4 82 11	4.1	99.00	9.3	6.	9.7	.44	22 4 82 11	.6	-.47	6.4	1025.	7.2	.79
19 4 82 12	3.7	99.00	10.2	6.	10.4	.44	22 4 82 12	1.0	-.40	10.7	1031.	10.9	.50
19 4 82 13	3.3	99.00	11.2	3.	11.7	.41	22 4 82 13	2.7	-.59	10.4	14.	10.8	.55
19 4 82 14	2.1	99.00	12.3	6.	13.2	.34	22 4 82 14	4.6	-.53	9.0	14.	9.4	.62
19 4 82 15	2.4	99.00	12.3	3.	13.3	.33	22 4 82 15	4.2	-.41	9.1	13.	9.5	.63
19 4 82 16	2.5	-.56	12.6	3.	13.7	.32	22 4 82 16	3.6	-.52	10.1	13.	10.6	.59
19 4 82 17	2.3	-.39	12.6	5.	13.3	.31	22 4 82 17	3.7	-.35	12.8	1025.	13.3	.37
19 4 82 18	1.7	-.50	12.6	8.	13.0	.31	22 4 82 18	5.1	-.14	12.8	27.	13.1	.24
19 4 82 19	.7	-.34	12.2	17.	12.4	.35	22 4 82 19	4.5	-.09	12.0	25.	12.1	.23
19 4 82 20	.6	-.17	11.9	1004.	11.8	.36	22 4 82 20	3.6	-.05	11.3	28.	11.3	.21
19 4 82 21	1.1	.32	10.4	4.	3.4	.41	22 4 82 21	2.0	.08	10.3	28.	10.0	.25
19 4 82 22	1.5	.81	8.9	5.	7.2	.49	22 4 82 22	1.2	.62	8.3	15.	7.9	.48
19 4 82 23	2.1	.84	7.8	2.	5.9	.55	22 4 82 23	1.7	.55	8.6	22.	7.8	.40
19 4 82 24	2.5	.67	7.1	3.	5.3	.60	22 4 82 24	1.6	.86	6.5	15.	6.0	.63
20 4 82 1	3.2	.48	6.9	2.	5.7	.60	23 4 82 1	1.9	1.30	5.2	19.	4.7	.82
20 4 82 2	1.9	.98	5.4	1.	4.4	.65	23 4 82 2	1.9	.50	5.2	15.	5.1	.78
20 4 82 3	2.8	.98	4.9	0.	3.6	.70	23 4 82 3	2.1	.30	5.5	18.	5.5	.67
20 4 82 4	2.5	.91	3.8	0.	2.9	.75	23 4 82 4	1.4	.18	5.4	17.	5.4	.62
20 4 82 5	3.6	1.28	1.5	34.	1.0	.85	23 4 82 5	.9	.31	4.7	1019.	4.7	.79
20 4 82 6	3.5	1.24	1.2	34.	.7	.84	23 4 82 6	1.7	.18	4.8	15.	4.9	.73
20 4 82 7	2.6	.29	1.4	34.	2.0	.82	23 4 82 7	1.9	.02	4.8	19.	5.0	.72
20 4 82 8	1.4	-.31	4.8	34.	5.8	.67	23 4 82 8	2.1	-.07	5.0	17.	5.2	.74
20 4 82 9	1.5	-.38	6.1	32.	7.3	.59	23 4 82 9	2.2	-.18	5.2	19.	5.6	.77
20 4 82 10	1.6	-.38	8.4	30.	9.1	.53	23 4 82 10	3.0	-.19	5.4	20.	5.8	.79
20 4 82 11	1.2	-.43	10.8	23.	11.4	.43	23 4 82 11	2.7	-.16	5.3	19.	5.6	.83
20 4 82 12	1.2	-1.02	12.0	2009.	12.8	.38	23 4 82 12	2.3	-.08	4.6	19.	4.9	.90
20 4 82 13	3.8	-.48	10.2	13.	10.5	.47	23 4 82 13	1.9	-.11	4.6	18.	4.9	.90
20 4 82 14	4.2	-.48	10.3	12.	10.7	.49	23 4 82 14	2.0	-.18	5.1	19.	5.5	.87
20 4 82 15	4.2	-.62	10.8	13.	11.4	.49	23 4 82 15	2.4	-.10	4.4	18.	4.9	.89
20 4 82 16	3.8	-.71	11.7	19.	12.8	.38	23 4 82 16	2.6	-.11	3.9	20.	4.3	.87
20 4 82 17	3.8	-.66	11.6	19.	12.5	.36	23 4 82 17	1.9	-.11	3.8	20.	4.2	.88
20 4 82 18	4.0	-.56	10.4	20.	11.2	.39	23 4 82 18	1.4	-.19	4.3	20.	4.7	.87
20 4 82 19	3.0	-.15	8.7	15.	8.8	.50	23 4 82 19	1.1	-.09	4.4	14.	4.7	.88
20 4 82 20	2.9	.07	7.4	17.	7.6	.61	23 4 82 20	.5	-.04	4.2	20.	4.5	.89
20 4 82 21	2.3	.12	6.5	14.	6.5	.69	23 4 82 21	.4	.08	4.1	1034.	4.3	.91
20 4 82 22	2.7	.13	5.1	12.	5.1	.84	23 4 82 22	1.3	.12	4.0	33.	4.1	.91
20 4 82 23	2.6	.24	4.6	13.	4.6	.89	23 4 82 23	2.2	.21	3.8	33.	3.9	.90
20 4 82 24	1.0	.94	4.3	18.	4.0	.91	23 4 82 24	1.8	.18	3.6	32.	3.6	.90
21 4 82 1	1.3	1.09	4.3	29.	3.5	.88	24 4 82 1	2.1	.28	3.7	2.	3.7	.89
21 4 82 2	1.8	1.23	3.3	30.	2.7	.88	24 4 82 2	2.9	.33	3.4	32.	3.3	.87
21 4 82 3	2.1	1.55	2.4	31.	1.6	.88	24 4 82 3	2.1	.45	2.8	33.	2.5	.88
21 4 82 4	1.5	.99	1.9	33.	1.1	.89	24 4 82 4	3.0	.50	2.5	33.	2.1	.87
21 4 82 5	1.2	1.13	1.6	0.	.8	.90	24 4 82 5	3.6	.52	2.1	32.	1.6	.84
21 4 82 6	2.8	.99	.2	33.	-.2	.92	24 4 82 6	3.9	.45	2.2	34.	1.8	.74
21 4 82 7	2.3	.39	.8	33.	1.1	.88	24 4 82 7	3.4	.27	2.4	33.	2.3	.69
21 4 82 8	1.2	-.16	3.1	34.	4.1	.74	24 4 82 8	5.9	.03	3.5	33.	4.0	.61
21 4 82 9	1.6	-.43	5.5	32.	7.0	.61	24 4 82 9	3.4	-.30	5.0	32.	6.3	.52
21 4 82 10	2.1	-.63	7.4	32.	9.1	.50	24 4 82 10	1.9	-.59	7.7	33.	9.1	.44
21 4 82 11	1.8	-.64	9.5	32.	10.6	.43	24 4 82 11	4.7	-.42	9.2	2.	10.2	.37
21 4 82 12	1.6	-.62	10.8	32.	11.5	.35	24 4 82 12	5.0	-.41	9.6	2.	10.7	.36
21 4 82 13	2.0	-.31	10.0	13.	10.1	.44	24 4 82 13	4.5	-.61	10.8	0.	12.1	.32
21 4 82 14	3.6	-.37	9.1	13.	9.3	.52	24 4 82 14	4.5	-.67	11.5	35.	13.1	.25
21 4 82 15	4.4	-.37	9.2	13.	9.5	.54	24 4 82 15	3.8	-.64	11.8	1.	13.5	.20
21 4 82 16	4.0	-.42	10.0	13.	10.3	.48	24 4 82 16	2.9	-.77	12.6	35.	14.3	.15
21 4 82 17	3.9	-.38	9.9	14.	10.1	.49	24 4 82 17	2.4	-.42	13.3	30.	14.5	.13
21 4 82 18	4.0	-.44	9.1	14.	9.3	.56	24 4 82 18	2.5	-.87	15.5	30.	15.1	.10
21 4 82 19	3.2	-.22	7.5	14.	7.6	.64	24 4 82 19	2.7	-.46	13.5	31.	14.7	.07
21 4 82 20	3.1	-.08	5.4	13.	5.4	.80	24 4 82 20	2.3	-.34	12.3	1033.	13.0	.14
21 4 82 21	2.8	.03	4.1	13.	4.3	.88	24 4 82 21	2.0	.32	9.4	14.	9.0	.42
21 4 82 22	2.8	.18	5.4	12.	3.4	.90	24 4 82 22	1.5	.56	8.2	18.	7.3	.49
21 4 82 23	2.6	.35	3.2	13.	3.1	.91	24 4 82 23	1.1	.60	7.4	18.	6.8	.50
21 4 82 24	1.7	.33	3.0	2012.	2.8	.91	24 4 82 24	1.4	.64	6.6	17.	6.0	.56

	FF	D-T	T10M	DD	T3M	RH		FF	D-T	T10M	DD	T3M	RH
25 4 82 1	.7	.60	5.1	34.	3.8	.69	28 4 82 1	2.6	.06	8.7	25.	8.6	.54
25 4 82 2	1.7	1.27	4.0	34.	2.8	.70	28 4 82 2	2.0	.13	3.5	24.	8.2	.55
25 4 82 3	2.3	1.69	2.1	34.	1.3	.80	28 4 82 3	2.6	.17	7.1	24.	6.8	.61
25 4 82 4	2.7	1.40	1.9	34.	1.2	.78	28 4 82 4	1.6	.41	5.8	25.	5.4	.68
25 4 82 5	3.2	1.11	1.2	34.	.7	.82	28 4 82 5	2.0	.29	5.7	26.	5.4	.71
25 4 82 6	3.4	1.94	.4	33.	.1	.86	28 4 82 6	2.9	.37	5.7	30.	5.3	.71
25 4 82 7	3.4	2.05	.9	33.	.8	.84	28 4 82 7	4.0	.14	6.5	30.	6.4	.62
25 4 82 8	2.3	.53	3.0	34.	4.1	.71	28 4 82 8	4.5	-.15	7.5	30.	7.9	.51
25 4 82 9	2.0	-.42	5.7	32.	7.1	.59	29 4 82 9	4.6	-.32	8.4	31.	9.4	.62
25 4 82 10	1.6	-.48	7.5	52.	8.7	.50	28 4 82 10	6.5	-.38	9.0	31.	9.8	.40
25 4 82 11	1.9	-.64	9.9	31.	11.1	.44	28 4 82 11	7.0	-.44	9.7	31.	10.6	.38
25 4 82 12	2.1	-.46	11.5	32.	12.6	.38	29 4 82 12	7.8	-.54	10.3	33.	11.3	.31
25 4 82 13	2.1	-.79	13.3	31.	14.6	.31	28 4 82 13	9.1	-.58	10.1	32.	11.0	.23
25 4 82 14	2.9	-.59	14.2	29.	15.2	.28	28 4 82 14	9.1	-.55	10.0	33.	10.9	.20
25 4 82 15	4.4	-.41	13.4	30.	14.1	.30	29 4 82 15	8.8	-.59	10.1	32.	11.2	.16
25 4 82 16	4.9	-.45	13.1	30.	13.8	.32	29 4 82 16	7.6	-.66	10.3	33.	11.5	.16
25 4 82 17	5.2	-.56	13.4	31.	14.4	.33	28 4 82 17	6.0	-.63	10.5	32.	11.5	.19
25 4 82 18	4.9	-.54	14.2	30.	15.1	.31	28 4 82 18	5.2	-.63	10.5	30.	11.2	.20
25 4 82 19	4.0	-.20	13.5	29.	14.0	.33	28 4 82 19	4.8	-.32	9.9	30.	10.2	.23
25 4 82 20	4.9	.02	12.5	29.	12.5	.37	28 4 82 20	5.4	-.10	9.4	28.	9.4	.24
25 4 82 21	5.7	.10	11.3	31.	11.0	.42	28 4 82 21	5.4	-.00	7.9	26.	7.9	.34
25 4 82 22	4.3	.15	10.2	30.	9.8	.49	28 4 82 22	4.9	.04	6.7	25.	6.7	.47
25 4 82 23	5.4	.12	8.9	31.	8.7	.58	28 4 82 23	3.3	.02	5.7	28.	5.7	.57
25 4 82 24	4.0	.20	8.6	32.	8.2	.52	28 4 82 24	3.8	.06	4.5	26.	4.6	.64
26 4 82 1	5.3	.12	8.2	33.	7.9	.46	29 4 82 1	3.5	.06	4.0	25.	4.1	.66
26 4 82 2	6.7	.15	7.9	33.	7.6	.46	29 4 82 2	2.1	.08	3.7	28.	3.7	.66
26 4 82 3	5.4	.17	7.3	32.	7.0	.48	29 4 82 3	2.4	.12	3.1	27.	3.1	.68
26 4 82 4	6.2	.16	6.6	33.	6.4	.48	29 4 82 4	1.3	.23	2.6	26.	2.4	.71
26 4 82 5	5.2	.23	6.1	34.	5.8	.47	29 4 82 5	1.6	.25	2.2	25.	2.1	.73
26 4 82 6	3.1	.29	5.7	34.	5.2	.48	29 4 82 6	1.1	.21	1.8	22.	1.5	.77
26 4 82 7	1.3	.13	6.4	34.	5.7	.48	29 4 82 7	1.2	.06	2.1	28.	2.2	.77
26 4 82 8	1.6	-.27	7.4	32.	8.3	.42	29 4 82 8	2.5	-.18	2.7	31.	3.5	.75
26 4 82 9	5.4	-.26	8.0	32.	8.9	.40	29 4 82 9	3.9	-.22	3.8	31.	4.7	.63
26 4 82 10	6.6	-.43	9.5	33.	10.3	.33	29 4 82 10	4.0	-.55	6.0	33.	7.3	.49
26 4 82 11	5.6	-.56	10.5	33.	11.6	.29	29 4 82 11	4.6	-.54	7.6	0.	8.8	.37
26 4 82 12	5.1	-.60	11.2	33.	12.6	.26	29 4 82 12	4.8	-.48	3.1	2.	9.3	.34
26 4 82 13	4.8	-.59	11.4	32.	12.8	.24	29 4 82 13	4.8	-.38	7.9	2.	8.7	.37
26 4 82 14	3.8	-.77	12.5	33.	14.2	.20	29 4 82 14	6.4	-.65	8.7	36.	10.1	.36
26 4 82 15	3.9	-.76	12.9	32.	14.7	.15	29 4 82 15	5.9	-.44	7.7	3.	8.5	.40
26 4 82 16	4.6	-.75	13.2	34.	14.9	.11	29 4 82 16	7.0	-.31	6.8	1.	7.4	.45
26 4 82 17	5.5	-.56	13.2	35.	14.7	.08	29 4 82 17	6.8	-.15	5.7	1.	6.2	.54
26 4 82 18	5.0	-.67	13.2	33.	14.4	.09	29 4 82 18	6.1	-.11	6.0	0.	6.3	.53
26 4 82 19	6.0	-.46	12.4	33.	13.3	.12	29 4 82 19	6.6	-.19	7.0	0.	7.5	.44
26 4 82 20	5.3	-.24	11.5	33.	12.1	.15	29 4 82 20	6.3	-.23	7.0	3.	7.4	.40
26 4 82 21	4.3	.01	10.3	33.	10.2	.21	29 4 82 21	6.3	-.05	6.1	2.	6.2	.41
26 4 82 22	4.1	.19	9.1	34.	8.6	.27	29 4 82 22	4.2	.09	5.1	2.	4.8	.44
26 4 82 23	2.8	.44	3.0	34.	7.1	.34	29 4 82 23	3.5	.23	4.0	36.	3.7	.49
26 4 82 24	2.7	.65	7.4	36.	6.2	.39	29 4 82 24	2.8	.23	3.3	33.	2.9	.52
27 4 82 1	2.0	.65	6.4	33.	5.2	.45	30 4 82 1	3.4	.21	2.4	32.	2.4	.50
27 4 82 2	2.1	.66	5.8	32.	4.6	.50	30 4 82 2	4.0	.18	2.2	34.	2.0	.48
27 4 82 3	1.6	1.39	4.4	33.	3.4	.58	30 4 82 3	4.2	.21	1.7	34.	1.4	.49
27 4 82 4	1.0	.86	3.4	34.	2.3	.70	30 4 82 4	3.9	.20	1.2	33.	1.0	.50
27 4 82 5	.8	.95	2.8	2.	1.7	.71	30 4 82 5	3.9	.21	.9	33.	.6	.52
27 4 82 6	.6	1.73	1.5	32.	.7	.84	30 4 82 6	3.8	.20	.5	32.	.3	.52
27 4 82 7	.8	1.23	2.0	34.	1.2	.81	30 4 82 7	3.7	-.05	.8	31.	1.1	.53
27 4 82 8	1.5	.66	2.4	34.	2.9	.74	30 4 82 8	3.7	-.22	1.4	32.	2.4	.50
27 4 82 9	.7	-.03	6.4	33.	7.2	.56	30 4 82 9	3.2	-.45	2.7	31.	3.9	.46
27 4 82 10	.4	-.02	10.7	1025.	11.2	.43	30 4 82 10	2.5	-.48	4.0	31.	5.2	.43
27 4 82 11	.9	-.51	13.3	1023.	13.8	.37	30 4 82 11	1.4	-.47	5.5	33.	6.8	.36
27 4 82 12	2.2	-.36	12.6	13.	13.1	.41	30 4 82 12	2.9	-.52	6.2	16.	6.9	.35
27 4 82 13	3.3	-.58	12.9	13.	13.5	.44	30 4 82 13	5.0	-.49	6.4	20.	7.3	.37
27 4 82 14	3.9	-.46	12.7	12.	13.2	.49	30 4 82 14	5.5	-.49	5.5	21.	6.3	.44
27 4 82 15	3.5	-.45	13.9	13.	14.6	.44	30 4 82 15	5.1	-.43	5.3	21.	6.0	.47
27 4 82 16	4.0	-.35	12.5	13.	12.9	.52	30 4 82 16	5.3	-.29	5.3	20.	5.8	.47
27 4 82 17	3.6	-.27	11.7	12.	12.1	.60	30 4 82 17	5.0	-.19	5.0	22.	5.4	.50
27 4 82 18	2.9	-.16	12.6	1012.	13.0	.54	30 4 82 18	5.5	-.13	2.7	21.	3.1	.76
27 4 82 19	5.8	-.47	14.1	33.	15.3	.33	30 4 82 19	4.7	-.07	1.8	20.	2.1	.90
27 4 82 20	5.3	-.10	12.3	32.	12.5	.38	30 4 82 20	4.9	-.04	1.8	20.	2.2	.90
27 4 82 21	4.4	.06	10.8	30.	10.6	.44	30 4 82 21	6.8	.01	2.7	21.	2.9	.99
27 4 82 22	3.7	.11	10.1	31.	9.8	.48	30 4 82 22	5.5	-.01	3.3	23.	3.5	.86
27 4 82 23	3.4	.07	9.6	30.	9.3	.52	30 4 82 23	3.1	.04	3.0	21.	3.2	.83
27 4 82 24	3.2	.07	9.2	27.	9.1	.52	30 4 82 24	3.4	.09	2.9	24.	3.0	.82

		FF	D-T	T10M	DD	T3M	RH			FF	D-T	T10M	DD	T3M	RH
1	5 82 1	5.3	.04	3.2	24.	3.3	.79	4	5 82 1	2.9	.13	3.5	18.	3.7	.84
1	5 82 2	5.0	.03	2.9	23.	3.0	.79	4	5 82 2	2.8	.14	3.9	20.	4.0	.82
1	5 82 3	4.7	.04	2.6	24.	2.7	.72	4	5 82 3	3.6	.13	4.3	20.	4.4	.79
1	5 82 4	6.6	.01	2.5	25.	2.6	.72	4	5 82 4	3.9	.13	4.6	20.	4.7	.77
1	5 82 5	3.7	.09	1.6	23.	1.7	.76	4	5 82 5	4.4	.14	4.6	20.	4.6	.78
1	5 82 6	2.4	.18	1.2	19.	1.1	.78	4	5 82 6	4.6	.02	4.7	19.	5.1	.78
1	5 82 7	3.2	-.10	1.6	19.	1.8	.75	4	5 82 7	4.3	.09	5.1	19.	5.3	.77
1	5 82 8	3.2	-.32	2.8	21.	3.3	.68	4	5 82 8	5.6	-.08	5.4	20.	5.7	.78
1	5 82 9	5.9	-.24	4.2	23.	4.7	.62	4	5 82 9	4.7	-.14	5.5	19.	5.8	.79
1	5 82 10	6.5	-.19	5.4	24.	5.8	.55	4	5 82 10	5.3	-.14	5.7	20.	6.0	.79
1	5 82 11	6.7	-.28	7.6	24.	8.0	.44	4	5 82 11	5.3	.04	6.1	13.	6.4	.78
1	5 82 12	7.4	-.33	8.7	26.	9.0	.48	4	5 82 12	6.6	.07	6.5	18.	6.9	.75
1	5 82 13	7.1	-.29	9.0	26.	9.2	.25	4	5 82 13	6.8	-.21	6.3	18.	6.7	.72
1	5 82 14	7.9	-.34	9.7	27.	10.1	.12	4	5 82 14	6.1	-.16	5.2	20.	5.6	.78
1	5 82 15	8.6	-.39	10.1	27.	10.4	.26	4	5 82 15	6.1	.16	5.9	18.	6.5	.74
1	5 82 16	9.2	-.42	9.7	28.	10.0	.24	4	5 82 16	5.8	-.35	6.3	19.	7.1	.69
1	5 82 17	3.0	-.43	9.7	28.	10.1	.24	4	5 82 17	6.7	-.27	6.0	20.	6.5	.71
1	5 82 18	8.3	-.30	8.7	27.	9.0	.24	4	5 82 18	6.8	-.22	5.8	21.	5.9	.70
1	5 82 19	8.3	-.18	7.7	28.	7.8	.25	4	5 82 19	5.3	-.19	5.4	21.	6.1	.71
1	5 82 20	4.4	-.09	6.5	27.	6.6	.29	4	5 82 20	5.5	-.11	6.0	21.	5.7	.66
1	5 82 21	6.1	-.02	5.8	29.	5.9	.31	4	5 82 21	5.3	-.04	4.8	20.	5.1	.76
1	5 82 22	5.3	.01	5.0	29.	5.1	.34	4	5 82 22	4.8	-.00	4.5	21.	5.7	.83
1	5 82 23	4.0	.03	4.3	29.	4.4	.37	4	5 82 23	4.0	0.00	4.6	21.	5.0	.76
1	5 82 24	4.7	.09	4.1	31.	4.2	.41	4	5 82 24	4.0	.02	4.5	21.	4.7	.81
2	5 82 1	4.5	.08	3.9	31.	4.0	.44	5	5 82 1	4.3	.03	4.4	21.	4.5	.85
2	5 82 2	4.4	.06	3.9	30.	4.0	.42	5	5 82 2	4.1	.07	4.0	1034.	4.0	.59
2	5 82 3	4.6	.05	3.7	31.	3.8	.41	5	5 82 3	4.6	.07	4.4	20.	4.5	.78
2	5 82 4	4.2	.06	3.3	30.	3.4	.42	5	5 82 4	4.6	.05	4.5	20.	4.6	.86
2	5 82 5	3.9	.06	3.1	31.	3.2	.43	5	5 82 5	1.0	.10	4.2	1023.	4.3	.72
2	5 82 6	4.2	.03	3.2	30.	3.3	.42	5	5 82 6	4.7	.17	4.0	1034.	3.9	.69
2	5 82 7	5.1	.02	3.3	30.	3.5	.40	5	5 82 7	3.8	.01	4.3	21.	4.5	.81
2	5 82 8	4.7	-.03	3.3	30.	3.6	.40	5	5 82 8	3.4	-.03	4.7	22.	4.9	.83
2	5 82 9	4.7	-.18	4.1	31.	4.9	.40	5	5 82 9	2.5	-.14	5.2	19.	5.5	.75
2	5 82 10	5.3	-.54	4.2	31.	7.5	.34	5	5 82 10	3.7	-.35	6.3	20.	6.8	.74
2	5 82 11	4.2	-.51	7.4	30.	8.4	.32	5	5 82 11	4.2	-.37	7.1	19.	7.5	.68
2	5 82 12	3.4	-.71	8.6	31.	9.8	.28	5	5 82 12	0.0	-.38	7.5	1033.	7.5	.64
2	5 82 13	3.4	-.79	9.9	31.	11.0	.24	5	5 82 13	3.4	-.23	6.8	16.	6.8	.71
2	5 82 14	3.5	-.59	10.3	31.	11.4	.20	5	5 82 14	5.4	-.28	6.8	16.	6.8	.69
2	5 82 15	2.9	-.59	10.5	32.	11.6	.19	5	5 82 15	1.2	-.30	8.3	1013.	7.6	.58
2	5 82 16	2.5	-.46	11.0	35.	12.1	.15	5	5 82 16	4.6	.23	7.9	1014.	7.6	.64
2	5 82 17	3.6	-.43	10.5	33.	11.3	.18	5	5 82 17	2.3	-.20	6.2	17.	6.5	.75
2	5 82 18	3.5	-.52	10.5	33.	11.3	.19	5	5 82 18	1.0	-.20	7.7	14.	7.3	.69
2	5 82 19	4.3	-.56	11.1	31.	12.1	.16	5	5 82 19	0.0	-.01	7.3	1032.	7.0	.68
2	5 82 20	4.2	-.36	10.2	31.	10.8	.17	5	5 82 20	1.4	.14	7.8	14.	7.2	.57
2	5 82 21	3.0	-.11	9.2	30.	9.1	.20	5	5 82 21	0.0	99.00	8.3	13.	7.6	.53
2	5 82 22	3.1	.13	7.2	26.	7.0	.27	5	5 82 22	.4	99.00	8.3	1013.	7.6	.52
2	5 82 23	2.4	.13	5.4	26.	5.3	.40	5	5 82 23	2.8	.14	8.3	33.	7.6	.53
2	5 82 24	1.7	.09	4.4	23.	4.3	.47	5	5 82 24	5.1	99.00	8.3	33.	7.6	.50
3	5 82 1	2.1	.12	3.1	20.	3.1	.51	6	5 82 1	1.1	.37	99.0	21.	99.0	.87
3	5 82 2	2.4	.11	2.2	22.	2.2	.63	6	5 82 2	.7	.46	99.0	24.	99.0	.92
3	5 82 3	2.2	.20	1.5	20.	1.4	.74	6	5 82 3	1.2	.30	99.0	27.	99.0	.91
3	5 82 4	2.0	.31	1.1	14.	.9	.69	6	5 82 4	1.5	-.01	99.0	30.	99.0	.90
3	5 82 5	3.1	.46	1.2	13.	1.2	.75	6	5 82 5	1.3	.13	99.0	33.	99.0	.89
3	5 82 6	4.9	.02	2.9	14.	3.1	.75	6	5 82 6	1.0	.14	99.0	1.	99.0	.89
3	5 82 7	6.2	-.01	2.4	15.	2.6	.81	6	5 82 7	.9	.08	1.8	10.	2.1	.86
3	5 82 8	7.1	-.02	2.4	15.	2.6	.89	6	5 82 8	1.5	-.22	3.8	12.	4.2	.71
3	5 82 9	7.3	-.01	3.1	14.	3.3	.90	6	5 82 9	2.0	-.22	5.5	1013.	5.8	.69
3	5 82 10	7.4	-.01	3.8	16.	4.0	.89	6	5 82 10	2.1	-.26	6.9	24.	7.3	.60
3	5 82 11	7.5	-.01	3.8	17.	4.1	.88	6	5 82 11	2.6	-.34	8.5	24.	3.8	.50
3	5 82 12	7.8	-.01	3.5	16.	3.8	.87	6	5 82 12	2.7	-.48	9.7	22.	10.0	.46
3	5 82 13	6.9	-.02	3.5	17.	3.8	.88	6	5 82 13	3.9	-.42	9.5	20.	9.9	.53
3	5 82 14	4.7	-.06	4.2	17.	4.5	.87	6	5 82 14	2.6	-.16	10.2	18.	10.8	.52
3	5 82 15	5.1	-.24	5.3	19.	5.3	.80	6	5 82 15	2.9	.23	11.0	17.	11.8	.50
3	5 82 16	6.2	-.21	5.3	19.	5.7	.80	6	5 82 16	1.7	-.05	11.7	18.	12.6	.45
3	5 82 17	5.3	-.22	4.7	21.	5.2	.78	6	5 82 17	1.4	.23	11.4	1J17.	12.1	.49
3	5 82 18	5.5	-.03	4.3	20.	4.7	.78	6	5 82 18	0.0	.23	11.4	1017.	12.0	.45
3	5 82 19	6.3	-.26	5.2	21.	5.7	.73	6	5 82 19	1.2	.23	10.1	14.	10.1	.64
3	5 82 20	4.4	.02	3.9	21.	4.2	.76	6	5 82 20	1.2	.47	7.9	14.	7.3	.70
3	5 82 21	4.0	.03	3.3	21.	4.0	.75	6	5 82 21	.8	1.19	6.6	1J17.	5.5	.80
3	5 82 22	5.2	.03	3.8	20.	4.0	.81	6	5 82 22	2.6	.65	6.8	31.	5.8	.52
3	5 82 23	5.2	.04	2.6	21.	2.9	.85	6	5 82 23	3.1	.93	5.4	32.	4.7	.55
3	5 82 24	3.8	.08	3.0	21.	3.2	.84	6	5 82 24	3.0	1.05	3.7	34.	3.0	.71

	FF	D-T	T10M	DD	T3M	RH		FF	D-T	T10M	DD	T3M	RH
7 5 82 1	3.3	1.01	3.4	33.	2.7	.72	10 5 82 1	1.6	1.04	2.2	36.	1.8	.89
7 5 82 2	3.2	.76	2.8	34.	2.2	.66	10 5 82 2	1.5	.41	1.4	33.	1.5	.88
7 5 82 3	3.6	.50	2.5	34.	2.0	.65	10 5 82 3	2.0	.02	1.3	32.	1.5	.88
7 5 82 4	2.7	.53	1.6	33.	1.2	.72	10 5 82 4	2.1	-.05	1.0	31.	1.3	.88
7 5 82 5	3.1	.42	1.6	34.	1.2	.74	10 5 82 5	1.9	-.06	.7	33.	1.1	.88
7 5 82 6	3.2	.02	1.8	33.	2.3	.72	10 5 82 6	1.4	-.11	1.0	34.	1.4	.88
7 5 82 7	2.0	-.54	4.6	33.	5.5	.49	10 5 82 7	.7	-.07	1.0	31.	2.4	.88
7 5 82 8	2.8	-.46	6.0	33.	7.4	.48	10 5 82 8	1.4	-.08	2.0	31.	2.6	.88
7 5 82 9	2.2	-.56	9.7	1006.	10.6	.37	10 5 82 9	1.0	-.14	5.3	1034.	3.9	.88
7 5 82 10	2.3	-.44	10.1	1006.	10.6	.68	10 5 82 10	.8	-.16	4.3	8.	4.0	.88
7 5 82 11	2.9	-.41	11.4	6.	12.1	.38	10 5 82 11	1.6	-.23	5.5	11.	6.0	.84
7 5 82 12	5.7	-.44	13.7	1022.	13.3	-.18	10 5 82 12	1.2	-.35	6.9	13.	7.3	.75
7 5 82 13	4.2	-.39	13.8	1012.	14.1	-.07	10 5 82 13	1.9	-.50	8.4	14.	8.8	.67
7 5 82 14	09.0	-.31	13.3	1004.	13.7	-.07	10 5 82 14	1.2	-.45	8.8	19.	9.1	.67
7 5 82 15	5.5	-.31	13.6	1009.	09.0	-.01	10 5 82 15	2.6	-.24	7.5	12.	7.7	.75
7 5 82 16	5.4	-.18	13.6	11.	09.0	-.22	10 5 82 16	2.0	-.52	8.3	14.	8.7	.73
7 5 82 17	4.3	-.10	13.7	4.	14.0	.10	10 5 82 17	2.8	-.58	8.4	14.	8.8	.72
7 5 82 18	3.8	-.05	13.6	3.	13.7	.06	10 5 82 18	2.9	-.35	6.9	14.	7.2	.78
7 5 82 19	4.0	.04	13.0	2.	12.7	.17	10 5 82 19	2.4	-.11	5.4	15.	5.7	.84
7 5 82 20	5.0	.14	12.4	3.	12.0	.22	10 5 82 20	1.2	-.08	5.3	15.	5.4	.88
7 5 82 21	5.8	.14	11.8	3.	11.4	.21	10 5 82 21	1.5	.19	4.6	11.	4.4	.89
7 5 82 22	5.2	.11	11.5	4.	11.2	.21	10 5 82 22	1.6	.26	4.4	10.	3.8	.89
7 5 82 23	5.6	.09	10.7	1005.	11.2	.06	10 5 82 23	1.0	.30	4.1	12.	3.7	.89
7 5 82 24	6.5	.02	8.8	12.	10.5	-.17	10 5 82 24	.5	.18	3.9	1012.	3.7	.89
8 5 82 1	8.9	.01	9.9	4.	8.5	-.14	11 5 82 1	.2	.10	3.8	1008.	3.8	.89
8 5 82 2	7.7	.01	7.8	6.	7.1	.64	11 5 82 2	.6	.01	3.5	30.	3.7	.89
8 5 82 3	8.7	-.01	8.3	1003.	7.6	.72	11 5 82 3	1.0	-.02	3.2	32.	3.5	.89
8 5 82 4	9.4	-.02	8.3	1.	7.6	.87	11 5 82 4	1.2	-.02	2.8	31.	3.1	.88
8 5 82 5	5.4	-.01	8.2	2.	7.6	.87	11 5 82 5	2.0	-.05	2.4	31.	2.8	.88
8 5 82 6	6.5	-.01	09.0	2.	09.0	.86	11 5 82 6	1.9	-.09	2.4	32.	2.9	.88
8 5 82 7	5.5	-.03	09.0	2.	09.0	.86	11 5 82 7	1.3	-.16	2.7	31.	3.2	.88
8 5 82 8	6.0	-.01	09.0	3.	09.0	.85	11 5 82 8	1.0	-.27	4.0	1033.	4.6	.88
8 5 82 9	5.7	-.02	09.0	2.	09.0	.85	11 5 82 9	.8	-.62	8.0	12.	8.5	.68
8 5 82 10	4.6	-.03	09.0	3.	09.0	.87	11 5 82 10	1.9	-.44	9.2	13.	9.4	.63
8 5 82 11	4.2	-.09	09.0	4.	4.6	.89	11 5 82 11	2.7	-.51	9.6	14.	9.9	.64
8 5 82 12	4.6	-.06	4.6	10.	4.9	.88	11 5 82 12	3.4	-.49	9.5	14.	9.8	.67
8 5 82 13	5.5	-.08	4.0	11.	4.3	.86	11 5 82 13	3.8	-.48	9.4	13.	9.7	.70
8 5 82 14	4.3	-.06	4.1	11.	4.4	.87	11 5 82 14	3.7	-.56	9.0	14.	9.5	.71
8 5 82 15	4.4	-.07	4.5	10.	4.8	.87	11 5 82 15	4.4	-.49	8.8	13.	9.1	.70
8 5 82 16	4.4	-.07	5.1	11.	5.4	.84	11 5 82 16	3.8	-.49	9.5	13.	9.8	.68
8 5 82 17	4.9	-.05	4.7	10.	4.9	.85	11 5 82 17	3.5	-.38	9.0	13.	9.3	.71
8 5 82 18	3.5	-.03	4.6	11.	4.9	.87	11 5 82 18	2.9	-.30	9.0	13.	9.2	.70
8 5 82 19	4.2	.01	4.4	10.	4.9	.87	11 5 82 19	3.1	-.21	3.3	13.	8.3	.71
8 5 82 20	4.5	.02	4.4	9.	4.7	.86	11 5 82 20	3.3	-.01	6.9	13.	6.9	.80
8 5 82 21	3.8	0.00	4.5	11.	4.4	.88	11 5 82 21	3.0	.18	5.9	13.	6.0	.87
8 5 82 22	3.6	.03	4.1	9.	4.3	.87	11 5 82 22	2.2	.38	5.5	13.	5.3	.89
8 5 82 23	3.4	-.01	4.0	12.	4.2	.89	11 5 82 23	1.7	.48	5.2	13.	5.0	.89
8 5 82 24	2.5	.02	3.7	10.	3.9	.89	11 5 82 24	.3	.40	4.9	1034.	4.3	.89
9 5 82 1	1.9	.06	3.6	6.	3.8	.89	12 5 82 1	1.8	1.09	3.9	33.	3.4	.89
9 5 82 2	2.5	.08	3.8	6.	4.0	.88	12 5 82 2	2.4	1.20	3.5	32.	3.0	.88
9 5 82 3	2.6	.05	3.8	5.	4.0	.89	12 5 82 3	3.0	1.74	3.0	32.	2.5	.88
9 5 82 4	2.3	.03	4.0	6.	4.3	.88	12 5 82 4	2.8	1.21	4.0	32.	2.5	.87
9 5 82 5	2.5	.01	4.0	4.	4.2	.88	12 5 82 5	2.3	1.26	3.5	32.	2.6	.87
9 5 82 6	2.9	-.02	4.0	2.	4.2	.88	12 5 82 6	2.1	.59	4.5	33.	4.7	.81
9 5 82 7	3.0	-.04	4.1	2.	4.4	.88	12 5 82 7	1.5	-.44	7.5	31.	8.9	.56
9 5 82 8	2.2	-.05	4.2	1.	4.6	.89	12 5 82 8	1.6	-.61	10.5	32.	12.1	.41
9 5 82 9	2.3	-.07	4.3	6.	4.7	.87	12 5 82 9	1.8	-.71	11.8	33.	13.7	.38
9 5 82 10	2.0	-.21	4.6	6.	5.2	.84	12 5 82 10	2.0	-.66	13.4	31.	15.2	.33
9 5 82 11	2.1	-.17	5.0	4.	5.5	.83	12 5 82 11	1.6	-.66	15.4	31.	16.9	.25
9 5 82 12	2.1	-.23	5.6	4.	6.3	.81	12 5 82 12	1.7	-.44	15.2	12.	15.9	.38
9 5 82 13	2.2	-.34	6.5	1.	7.3	.76	12 5 82 13	2.6	-.55	16.8	1033.	18.1	.30
9 5 82 14	2.7	-.28	6.8	5.	7.2	.75	12 5 82 14	4.6	-.77	17.8	32.	19.7	.17
9 5 82 15	1.8	-.49	8.6	6.	9.1	.62	12 5 82 15	5.4	-.64	17.3	33.	18.9	.17
9 5 82 16	1.7	-.35	7.9	1015.	8.5	.70	12 5 82 16	5.9	-.56	16.7	32.	18.2	.18
9 5 82 17	1.7	-.14	6.4	20.	6.9	.83	12 5 82 17	6.8	-.45	16.1	33.	17.2	.19
9 5 82 18	1.7	-.35	7.5	17.	8.1	.77	12 5 82 18	5.7	-.16	15.0	33.	15.5	.22
9 5 82 19	1.2	-.06	6.1	13.	4.3	.85	12 5 82 19	5.6	-.09	13.9	33.	14.3	.24
9 5 82 20	1.3	.05	5.8	20.	5.4	.87	12 5 82 20	5.0	.08	12.3	33.	12.7	.31
9 5 82 21	1.0	.43	5.9	22.	4.7	.90	12 5 82 21	4.0	.19	11.9	32.	11.5	.37
9 5 82 22	.7	.46	4.5	27.	3.9	.90	12 5 82 22	3.4	.26	11.1	31.	10.6	.41
9 5 82 23	.3	.57	4.0	29.	3.4	.89	12 5 82 23	1.8	.24	10.0	31.	9.5	.46
9 5 82 24	1.2	1.24	2.7	33.	2.3	.89	12 5 82 24	1.1	.34	9.7	32.	9.5	.53

	FF	D-T	T10M	DD	T3M	RH		FF	D-T	T10M	DD	T3M	RH
13 5 82 1	1.8	.31	9.3	32.	8.6	.56	16 5 82 1	99.0	.02	7.1	1030.	7.6	.66
13 5 82 2	1.8	.18	9.4	30.	8.9	.54	16 5 82 2	3.9	.12	6.3	1035.	6.3	.86
13 5 82 3	2.5	.15	9.3	30.	9.0	.56	16 5 82 3	2.4	-.01	6.1	32.	6.1	.89
13 5 82 4	2.6	.16	9.4	30.	9.0	.56	16 5 82 4	.8	-.03	5.4	32.	5.7	.85
13 5 82 5	2.9	.15	9.9	34.	9.4	.53	16 5 82 5	.3	-.01	5.2	3.	5.5	.89
13 5 82 6	3.1	.09	10.1	34.	9.8	.51	16 5 82 6	.5	-.03	5.3	1000.	5.4	.89
13 5 82 7	2.5	-.08	10.3	32.	10.3	.51	16 5 82 7	.5	-.06	5.3	14.	6.0	.72
13 5 82 8	3.1	-.29	10.9	32.	11.6	.50	16 5 82 8	0.0	99.00	99.0	13.	7.6	.47
13 5 82 9	3.4	-.56	12.7	33.	14.1	.45	16 5 82 9	1.4	-.82	99.0	15.	10.7	.58
13 5 82 10	4.0	-.60	14.0	34.	15.5	.39	16 5 82 10	2.1	-.56	99.0	13.	12.7	.64
13 5 82 11	4.0	-.62	14.7	34.	16.4	.36	16 5 82 11	3.2	-.47	99.0	13.	13.7	.63
13 5 82 12	3.2	-.59	15.4	35.	16.8	.34	16 5 82 12	3.3	-.52	99.0	14.	14.3	.63
13 5 82 13	3.0	-.69	16.0	36.	17.6	.31	16 5 82 13	3.4	-.55	99.0	15.	14.7	.61
13 5 82 14	2.6	-.87	17.1	31.	18.9	.29	16 5 82 14	3.3	-.69	14.8	16.	15.8	.57
13 5 82 15	2.7	-.65	17.0	1029.	18.0	.29	16 5 82 15	4.1	-.40	13.6	13.	14.3	.62
13 5 82 16	3.2	-.70	15.4	18.	16.4	.32	16 5 82 16	3.7	-.54	14.0	14.	14.7	.61
13 5 82 17	3.0	-.70	15.6	19.	16.7	.30	16 5 82 17	3.5	-.38	14.0	12.	14.5	.60
13 5 82 18	2.3	-.46	15.5	18.	16.4	.31	16 5 82 18	2.5	-.31	13.6	14.	14.0	.62
13 5 82 19	1.7	-.40	15.0	18.	15.7	.32	16 5 82 19	2.7	-.16	12.5	13.	12.6	.71
13 5 82 20	1.5	.06	13.6	18.	13.1	.38	16 5 82 20	3.2	.16	11.4	13.	11.2	.80
13 5 82 21	.8	.36	12.5	21.	11.4	.44	16 5 82 21	2.3	.53	11.0	13.	10.6	.83
13 5 82 22	1.6	.36	11.7	28.	10.7	.47	16 5 82 22	1.3	.62	10.9	13.	9.9	.86
13 5 82 23	3.1	.50	10.7	34.	9.7	.56	16 5 82 23	.6	.45	10.7	14.	9.5	.85
13 5 82 24	3.1	.45	10.6	0.	9.5	.54	16 5 82 24	.5	.44	10.3	1011.	9.1	.87
14 5 82 1	2.5	.54	10.1	0.	8.7	.52	17 5 82 1	.7	.46	9.7	1035.	8.6	.83
14 5 82 2	2.9	.71	9.1	36.	7.7	.55	17 5 82 2	2.5	1.16	8.6	35.	7.8	.89
14 5 82 3	3.7	.48	8.0	36.	7.3	.58	17 5 82 3	3.2	.67	8.9	35.	8.5	.84
14 5 82 4	3.2	.42	7.3	35.	6.6	.59	17 5 82 4	2.3	.62	8.8	34.	8.4	.85
14 5 82 5	2.1	.39	7.2	0.	6.7	.63	17 5 82 5	1.6	.25	9.3	35.	9.0	.84
14 5 82 6	1.8	-.21	9.1	2.	9.1	.51	17 5 82 6	1.8	.33	9.4	1002.	9.2	.84
14 5 82 7	1.5	-.48	10.9	11.	11.1	.38	17 5 82 7	2.9	.35	9.5	1.	9.4	.88
14 5 82 8	1.9	-.48	11.8	12.	12.2	.31	17 5 82 8	1.2	.18	10.2	33.	10.2	.88
14 5 82 9	3.4	-.58	12.5	1016.	13.2	-.00	17 5 82 9	1.2	.03	10.6	33.	10.6	.86
14 5 82 10	2.1	-.54	12.9	14.	13.4	.27	17 5 82 10	1.4	-.52	12.9	32.	13.9	.77
14 5 82 11	2.8	-.67	13.1	16.	13.7	.26	17 5 82 11	1.2	-.56	16.2	31.	17.2	.63
14 5 82 12	3.2	-.46	12.8	14.	13.3	.28	17 5 82 12	.8	-.59	18.7	1023.	19.6	.53
14 5 82 13	3.4	-.48	12.6	13.	13.2	.31	17 5 82 13	3.4	-.52	17.3	14.	18.1	.58
14 5 82 14	3.7	-.61	13.2	14.	13.9	.34	17 5 82 14	4.3	-.45	15.4	14.	16.0	.65
14 5 82 15	3.4	-.62	13.8	14.	14.6	.35	17 5 82 15	2.9	-.27	14.5	13.	15.0	.69
14 5 82 16	3.4	-.67	13.4	17.	14.3	.40	17 5 82 16	4.0	-.08	12.9	14.	13.1	.74
14 5 82 17	3.3	-.42	12.1	13.	12.5	.61	17 5 82 17	3.2	-.40	14.5	13.	15.0	.66
14 5 82 18	2.9	-.24	11.7	13.	11.9	.68	17 5 82 18	2.6	-.24	14.0	12.	14.4	.68
14 5 82 19	2.2	-.21	11.3	12.	11.4	.70	17 5 82 19	1.7	-.23	13.7	14.	14.0	.71
14 5 82 20	2.1	.28	10.5	13.	10.1	.70	17 5 82 20	1.8	.18	12.2	14.	11.9	.81
14 5 82 21	2.0	.79	10.0	13.	9.2	.73	17 5 82 21	1.3	.61	10.3	12.	10.3	.88
14 5 82 22	.8	1.04	9.3	1033.	8.0	.77	17 5 82 22	.3	.68	10.5	33.	9.5	.90
14 5 82 23	2.2	.90	8.3	35.	7.4	.78	17 5 82 23	1.4	.78	11.0	33.	9.4	.89
14 5 82 24	3.2	.73	8.0	34.	7.0	.74	17 5 82 24	3.4	.53	11.6	34.	10.7	.70
15 5 32 1	1.8	.91	6.3	0.	5.7	.80	18 5 82 1	3.1	.45	11.5	34.	10.6	.64
15 5 82 2	2.0	1.27	6.2	0.	5.2	.82	18 5 82 2	3.7	.47	10.8	33.	10.0	.65
15 5 82 3	1.7	1.60	4.9	35.	4.3	.89	18 5 82 3	3.4	.45	10.2	33.	9.2	.70
15 5 82 4	6.2	.64	3.5	1003.	4.0	.54	18 5 82 4	3.5	.45	9.5	34.	8.8	.70
15 5 82 5	0.0	.32	8.0	2015.	99.0	.49	18 5 82 5	3.1	.16	9.8	33.	9.4	.67
15 5 82 6	0.0	-.27	8.3	2014.	99.0	.43	18 5 82 6	2.6	-.16	10.5	33.	11.1	.63
15 5 82 7	0.0	99.00	8.3	13.	99.0	.62	18 5 82 7	2.1	-.45	12.0	33.	13.3	.57
15 5 82 8	1.6	99.00	8.3	2000.	99.0	.87	18 5 82 8	2.9	-.44	13.6	32.	15.3	.49
15 5 82 9	1.3	99.00	8.3	1013.	99.0	.62	18 5 82 9	2.7	-.64	15.2	31.	17.0	.45
15 5 82 10	.4	-.44	8.3	1.	99.0	.78	18 5 82 10	2.2	-.53	16.9	30.	17.8	.43
15 5 82 11	3.5	-.50	8.3	1011.	20.7	.77	18 5 82 11	2.3	-.69	18.5	31.	19.9	.39
15 5 82 12	4.0	-.46	8.3	13.	99.0	.66	18 5 82 12	2.2	-.61	19.8	31.	20.7	.35
15 5 82 13	3.7	-.48	99.0	13.	99.0	.54	18 5 82 13	3.7	-.50	18.0	14.	18.8	.42
15 5 82 14	4.6	-.63	99.0	14.	99.0	.56	18 5 82 14	3.3	-.48	17.8	13.	18.5	.44
15 5 82 15	4.4	-.56	10.9	13.	99.0	.75	18 5 82 15	2.6	-.62	18.9	15.	19.9	.42
15 5 82 16	6.5	-.49	9.4	1013.	99.0	.83	18 5 82 16	2.9	-.42	18.3	13.	19.0	.45
15 5 82 17	6.3	-.48	8.3	1013.	99.0	.80	18 5 82 17	3.0	-.27	17.0	13.	17.5	.49
15 5 82 18	7.4	-.32	8.3	1011.	19.1	.95	18 5 82 18	2.9	-.14	16.2	13.	16.6	.51
15 5 82 19	10.8	-.12	7.7	1002.	99.0	.87	18 5 82 19	3.2	-.53	15.4	12.	15.7	.51
15 5 82 20	7.4	-.11	7.8	1013.	19.8	.83	18 5 82 20	3.6	.14	14.5	12.	14.7	.55
15 5 82 21	1.1	-.05	8.5	1008.	19.8	.77	18 5 82 21	4.7	-.00	14.2	11.	14.4	.56
15 5 82 22	2.8	-.05	8.3	1009.	99.0	.78	18 5 82 22	5.6	-.05	13.0	11.	13.1	.64
15 5 82 23	0.0	-.05	8.5	13.	19.8	.62	18 5 82 23	5.2	-.03	11.7	11.	11.7	.67
15 5 82 24	0.0	99.00	8.5	1013.	19.8	.70	18 5 82 24	4.7	-.05	10.9	11.	10.9	.68

	FF	D-T	T10M	DD	T3M	RH		FF	D-T	T10M	DD	T3M	RH
19 5 82 1	5.0	-.05	10.0	10.	9.9	.69	22 5 82 1	.7	.03	7.0	1033.	7.1	.88
19 5 82 2	3.7	-.05	9.3	10.	9.2	.71	22 5 82 2	.6	.05	6.7	35.	6.9	.88
19 5 82 3	4.6	-.05	8.4	9.	8.4	.74	22 5 82 3	1.1	.02	6.5	33.	6.7	.88
19 5 82 4	4.6	.02	6.7	9.	6.3	.83	22 5 82 4	1.6	.02	6.3	32.	6.5	.89
19 5 82 5	4.3	.03	6.3	9.	6.4	.78	22 5 82 5	1.3	.03	6.4	32.	6.6	.89
19 5 82 6	4.0	.08	5.3	3.	5.5	.82	22 5 82 6	.8	-.04	4.8	10.	7.0	.88
19 5 82 7	3.7	.00	4.4	7.	4.8	.84	22 5 82 7	2.1	-.13	7.4	14.	7.5	.83
19 5 82 8	2.6	-.01	4.0	5.	4.3	.86	22 5 82 8	2.6	-.19	7.7	14.	7.9	.78
19 5 82 9	2.4	-.02	3.8	4.	4.1	.88	22 5 82 9	2.4	-.19	7.8	14.	7.9	.76
19 5 82 10	2.7	-.03	3.5	3.	3.9	.88	22 5 82 10	2.2	-.21	8.1	16.	8.3	.71
19 5 82 11	2.3	-.04	3.3	3.	3.8	.89	22 5 82 11	2.2	-.25	8.5	17.	8.7	.71
19 5 82 12	2.8	-.06	3.2	4.	3.6	.89	22 5 82 12	1.9	-.39	9.4	17.	9.7	.69
19 5 82 13	3.5	-.06	3.1	2.	3.5	.89	22 5 82 13	2.1	-.53	10.4	13.	10.7	.62
19 5 82 14	3.6	-.07	2.9	3.	3.3	.88	22 5 82 14	2.7	-.71	11.3	15.	11.9	.54
19 5 82 15	3.6	-.05	2.7	3.	3.2	.89	22 5 82 15	2.8	-.49	11.5	13.	12.0	.48
19 5 82 16	4.2	-.04	2.7	2.	3.1	.88	22 5 82 16	3.1	-.57	11.6	13.	12.0	.46
19 5 82 17	4.3	-.04	3.0	1.	3.3	.88	22 5 82 17	2.9	-.45	11.3	14.	11.6	.50
19 5 82 18	4.1	-.02	3.2	33.	3.5	.89	22 5 82 18	2.4	-.22	10.6	15.	10.7	.54
19 5 82 19	3.7	-.01	2.9	32.	3.3	.90	22 5 82 19	2.0	-.08	9.7	14.	9.6	.61
19 5 82 20	3.7	-.02	2.7	32.	3.2	.85	22 5 82 20	1.8	.03	9.1	14.	9.0	.68
19 5 82 21	3.4	.02	2.9	33.	3.2	.89	22 5 82 21	.8	.15	8.9	11.	8.6	.73
19 5 82 22	3.9	.00	2.9	33.	3.2	.88	22 5 82 22	.5	.32	8.5	1008.	8.0	.81
19 5 82 23	3.1	.04	3.1	33.	3.3	.86	22 5 82 23	2.4	.22	8.0	7.	7.6	.85
19 5 82 24	3.3	.03	3.1	32.	3.3	.85	22 5 82 24	3.2	.17	7.7	9.	7.7	.87
20 5 82 1	3.0	.03	3.2	32.	3.4	.85	23 5 82 1	3.7	.06	7.9	10.	7.9	.87
20 5 82 2	2.7	.08	2.9	32.	3.0	.85	23 5 82 2	3.1	.02	7.9	10.	7.9	.88
20 5 82 3	2.2	.11	2.7	32.	2.8	.86	23 5 82 3	2.7	.01	7.9	13.	7.9	.90
20 5 82 4	3.2	.06	2.3	31.	2.5	.88	23 5 82 4	5.3	-.01	7.9	15.	7.9	.89
20 5 82 5	2.7	-.01	2.5	31.	2.8	.86	23 5 82 5	5.6	-.02	7.7	14.	7.7	.89
20 5 82 6	2.7	-.37	3.6	32.	4.7	.81	23 5 82 6	5.1	-.00	7.8	13.	7.8	.89
20 5 82 7	1.9	-.38	5.1	31.	6.1	.74	23 5 82 7	4.4	0.00	7.9	13.	8.0	.89
20 5 82 8	2.1	-.59	6.6	32.	8.0	.67	23 5 82 8	4.3	-.02	8.2	14.	8.2	.89
20 5 82 9	1.7	-.55	7.5	31.	9.5	.67	23 5 82 9	4.1	-.03	8.1	13.	8.1	.89
20 5 82 10	2.1	-.38	8.2	2.	9.1	.64	23 5 82 10	4.1	-.04	8.0	13.	8.1	.89
20 5 82 11	2.5	-.30	8.4	4.	9.1	.62	23 5 82 11	4.6	-.05	8.0	12.	8.1	.89
20 5 82 12	2.1	-.42	9.6	3.	10.3	.56	23 5 82 12	4.0	-.05	8.0	12.	8.0	.90
20 5 82 13	2.5	-.25	9.4	9.	9.6	.58	23 5 82 13	3.5	-.07	8.1	12.	8.2	.89
20 5 82 14	2.5	-.22	9.4	7.	9.5	.60	23 5 82 14	3.6	-.10	8.2	10.	8.3	.88
20 5 82 15	2.2	-.18	8.8	8.	9.9	.66	23 5 82 15	3.3	-.09	8.1	3.	8.2	.87
20 5 82 16	2.8	-.16	8.4	9.	9.6	.70	23 5 82 16	3.1	-.05	8.2	8.	8.3	.86
20 5 82 17	2.4	-.14	8.4	9.	8.4	.72	23 5 82 17	4.2	-.04	8.4	9.	8.4	.86
20 5 82 18	2.1	-.12	8.2	9.	8.3	.73	23 5 82 18	3.0	-.03	8.4	7.	8.4	.87
20 5 82 19	2.0	-.07	8.0	9.	8.0	.75	23 5 82 19	3.8	0.00	8.4	3.	8.4	.86
20 5 82 20	2.4	-.06	7.6	10.	7.7	.78	23 5 82 20	3.6	.00	8.4	6.	8.3	.86
20 5 82 21	1.6	-.03	7.1	13.	7.2	.78	23 5 82 21	2.6	.02	8.3	7.	8.3	.86
20 5 82 22	.3	.03	6.8	1012.	6.8	.84	23 5 82 22	3.0	.02	8.3	7.	8.3	.87
20 5 82 23	1.2	.04	6.7	9.	6.7	.83	23 5 82 23	2.9	.01	8.4	7.	8.4	.87
20 5 82 24	1.1	0.00	6.5	8.	6.6	.82	23 5 82 24	2.2	.01	8.4	7.	8.4	.87
21 5 82 1	.3	.02	6.2	1005.	6.3	.85	24 5 82 1	1.6	.01	8.5	8.	8.5	.87
21 5 82 2	.6	.16	5.9	10.	5.6	.88	24 5 82 2	.8	0.00	8.5	10.	8.4	.87
21 5 82 3	1.0	.17	5.4	8.	5.3	.88	24 5 82 3	.8	.00	8.4	5.	8.4	.88
21 5 82 4	1.0	.15	5.3	10.	5.2	.88	24 5 82 4	.4	.04	8.3	32.	8.3	.88
21 5 82 5	.8	.08	5.5	8.	5.7	.87	24 5 82 5	1.5	.05	8.0	32.	8.1	.88
21 5 82 6	.8	-.19	6.0	35.	6.4	.85	24 5 82 6	2.2	-.02	7.8	31.	7.9	.88
21 5 82 7	.6	-.24	6.6	3.	7.1	.82	24 5 82 7	2.3	-.06	7.9	31.	8.1	.88
21 5 82 8	1.2	-.10	6.3	1023.	6.6	.86	24 5 82 8	2.2	-.43	9.5	31.	10.2	.83
21 5 82 9	1.3	-.18	6.3	31.	6.8	.87	24 5 82 9	2.1	-.61	11.1	31.	12.1	.74
21 5 82 10	1.1	-.20	6.5	33.	7.1	.86	24 5 82 10	2.6	-.67	12.1	32.	13.7	.66
21 5 82 11	1.2	-.48	7.9	32.	9.6	.80	24 5 82 11	1.5	-.88	14.2	31.	15.8	.55
21 5 82 12	1.5	-.40	8.5	31.	9.1	.67	24 5 82 12	2.1	-.43	13.1	1013.	13.6	.63
21 5 82 13	1.1	-.46	9.4	31.	9.9	.66	24 5 82 13	2.7	-.16	11.8	11.	12.0	.80
21 5 82 14	1.4	-.55	10.3	30.	10.8	.63	24 5 82 14	2.7	-.30	11.7	13.	11.9	.79
21 5 82 15	1.2	-.64	11.2	30.	11.8	.58	24 5 82 15	2.9	-.46	12.9	15.	13.3	.72
21 5 82 16	1.6	-.98	12.5	31.	13.7	.48	24 5 82 16	2.7	-.45	13.2	12.	13.8	.66
21 5 82 17	1.6	-.51	12.0	14.	12.4	.54	24 5 82 17	2.5	-.22	13.0	11.	13.3	.72
21 5 82 18	2.7	-.45	10.7	14.	11.0	.68	24 5 82 18	1.4	-.18	13.3	12.	13.6	.72
21 5 82 19	3.2	-.24	9.1	13.	9.1	.80	24 5 82 19	1.4	-.14	13.3	1030.	13.9	.65
21 5 82 20	2.4	.03	8.1	14.	7.9	.86	24 5 82 20	3.4	.12	13.0	29.	13.0	.68
21 5 82 21	2.3	.24	7.2	13.	7.0	.89	24 5 82 21	4.4	.13	12.1	29.	11.9	.69
21 5 82 22	2.2	.30	6.5	13.	6.4	.90	24 5 82 22	1.2	.25	10.7	30.	10.1	.60
21 5 82 23	2.2	.23	6.5	14.	6.4	.90	24 5 82 23	3.2	.18	9.9	26.	9.5	.63
21 5 82 24	1.1	.06	6.9	20.	7.0	.89	24 5 82 24	2.8	.15	9.1	25.	8.7	.66

	FF	D-T	T10M	DD	T3M	RH		FF	D-T	T10M	DD	T3M	RH				
25	5 82 1	2.2	.18	3.4	26.	8.0	.68	28	5 82 1	4.5	.05	9.5	34.	9.4	.89		
25	5 82 2	2.7	.12	8.8	26.	8.4	.64	28	5 82 2	4.9	.06	9.5	33.	9.3	.87		
25	5 82 3	2.2	.26	7.9	22.	7.4	.69	28	5 82 3	5.2	.08	9.0	32.	8.9	.86		
25	5 82 4	2.0	.20	7.8	1021.	7.4	.78	28	5 82 4	5.2	.07	8.4	33.	8.3	.84		
25	5 82 5	2.4	.11	8.2	35.	7.6	.57	28	5 82 5	6.3	.02	7.1	32.	7.2	.84		
25	5 82 6	.2	-.05	3.3	1033.	7.6	.54	28	5 82 6	5.9	.03	6.9	33.	7.0	.84		
25	5 82 7	1.9	-.14	8.3	1013.	7.6	.54	28	5 82 7	4.9	-.04	7.9	32.	8.0	.78		
25	5 82 8	1.8	-.25	7.5	1019.	9.5	.70	28	5 82 8	5.7	-.13	3.9	32.	9.2	.69		
25	5 82 9	2.3	-.24	10.1	18.	10.1	.87	28	5 82 9	5.2	-.54	11.2	32.	12.5	.58		
25	5 82 10	2.7	-.18	10.1	17.	10.1	.87	28	5 82 10	5.8	-.57	13.0	31.	14.5	.47		
25	5 82 11	3.1	-.11	10.1	19.	10.1	.89	28	5 82 11	4.4	-.72	14.3	32.	16.1	.41		
25	5 82 12	3.5	-.19	10.4	20.	10.5	.88	28	5 82 12	2.9	-.79	16.2	31.	13.0	.34		
25	5 82 13	2.9	-.41	11.9	19.	12.4	.80	28	5 82 13	2.4	-.62	17.2	31.	18.4	.28		
25	5 82 14	3.1	-.55	13.9	20.	14.7	.70	28	5 82 14	2.5	-.75	18.1	1032.	19.9	.25		
25	5 82 15	5.2	-.52	16.3	24.	17.1	.51	28	5 82 15	2.7	-.80	18.0	33.	19.4	.24		
25	5 82 16	4.9	-.52	16.7	25.	17.6	.43	28	5 82 16	5.5	-.54	17.0	31.	18.3	.18		
25	5 82 17	5.6	-.33	16.3	24.	17.0	.40	28	5 82 17	5.4	-.52	16.8	30.	17.9	.15		
25	5 82 18	4.3	-.16	15.4	24.	15.8	.42	28	5 82 18	5.6	-.29	15.8	31.	16.8	.17		
25	5 82 19	4.3	-.10	15.2	25.	15.6	.40	28	5 82 19	6.1	-.12	14.6	30.	15.1	.20		
25	5 82 20	4.8	.02	14.2	24.	14.2	.43	28	5 82 20	4.6	.09	12.9	31.	12.7	.27		
25	5 82 21	3.9	.09	13.3	22.	13.2	.50	28	5 82 21	4.2	.21	12.3	30.	12.0	.31		
25	5 82 22	3.6	.05	12.8	22.	12.7	.57	28	5 82 22	3.5	.21	11.4	30.	11.0	.35		
25	5 82 23	4.2	.04	10.9	22.	10.3	.78	28	5 82 23	2.3	.36	10.4	30.	9.5	.44		
25	5 82 24	3.2	.03	10.0	22.	9.8	.86	28	5 82 24	3.1	.23	10.3	31.	9.8	.46		
26	5 82 1	1.6	.13	9.2	10.	8.9	.89	29	5 82 1	4.2	.27	9.9	31.	9.4	.49		
26	5 82 2	1.3	.21	9.2	15.	8.8	.89	29	5 82 2	3.8	.32	9.4	32.	8.7	.54		
26	5 82 3	2.1	.24	9.6	22.	9.1	.87	29	5 82 3	3.9	.30	8.9	32.	8.4	.56		
26	5 82 4	1.3	.20	9.6	22.	9.0	.84	29	5 82 4	3.8	.44	8.6	31.	7.9	.61		
26	5 82 5	1.4	.03	10.0	24.	9.7	.74	29	5 82 5	2.9	-.13	9.7	33.	9.4	.57		
26	5 82 6	1.2	-.40	12.0	24.	12.4	.61	29	5 82 6	3.1	-.46	10.7	33.	11.6	.52		
26	5 82 7	1.9	-.32	13.3	26.	14.0	.53	29	5 82 7	4.7	-.42	11.8	32.	13.1	.47		
26	5 82 8	3.0	-.26	13.6	27.	14.3	.50	29	5 82 8	4.5	-.51	12.8	32.	14.3	.42		
26	5 82 9	2.4	-.35	15.2	25.	16.1	.42	29	5 82 9	4.3	-.69	14.1	33.	16.1	.37		
26	5 82 10	3.2	-.39	15.9	25.	16.7	.38	29	5 82 10	2.9	-.73	15.3	31.	17.2	.35		
26	5 82 11	3.1	-.54	15.3	29.	16.2	.52	29	5 82 11	3.0	-.80	16.3	32.	18.0	.31		
26	5 82 12	2.4	-.48	15.8	19.	16.6	.55	29	5 82 12	3.3	-.70	16.9	31.	18.3	.28		
26	5 82 13	4.0	-.53	16.1	20.	17.0	.54	29	5 82 13	3.2	-.94	17.8	31.	19.9	.23		
26	5 82 14	3.8	-.37	15.2	20.	15.9	.56	29	5 82 14	4.0	-.89	18.2	31.	20.1	.19		
26	5 82 15	2.4	-.26	14.4	18.	14.9	.63	29	5 82 15	4.5	-.78	18.2	32.	20.1	.15		
26	5 82 16	3.3	-.19	13.1	14.	13.4	.72	29	5 82 16	4.0	-.85	18.7	32.	20.8	.16		
26	5 82 17	2.9	.08	12.4	13.	12.5	.76	29	5 82 17	4.9	-.60	18.1	32.	19.9	.20		
26	5 82 18	2.5	.02	12.3	14.	12.4	.77	29	5 82 18	4.9	-.43	17.7	32.	19.1	.24		
26	5 82 19	1.8	.62	11.7	15.	11.7	.82	29	5 82 19	4.0	-.29	17.2	31.	18.1	.27		
26	5 82 20	2.2	.26	11.0	13.	11.0	.84	29	5 82 20	2.9	.02	15.3	31.	15.9	.33		
26	5 82 21	1.6	.85	10.6	16.	10.4	.88	29	5 82 21	2.2	.25	14.9	28.	14.7	.38		
26	5 82 22	1.7	1.26	10.0	19.	9.8	.89	29	5 82 22	1.8	.29	13.5	26.	13.1	.49		
26	5 82 23	1.3	1.18	10.2	19.	9.8	.89	29	5 82 23	3.8	.18	13.0	29.	12.7	.54		
26	5 82 24	1.8	.51	9.7	14.	9.5	.89	29	5 82 24	3.4	.18	12.1	29.	11.8	.64		
27	5 82 1	2.3	.12	9.0	13.	8.9	.91	30	5 82 1	2.8	.17	11.5	27.	11.2	.70		
27	5 82 2	1.8	.49	8.9	12.	8.8	.91	30	5 82 2	2.6	.19	10.9	28.	10.6	.74		
27	5 82 3	2.0	.58	8.6	13.	8.4	.90	30	5 82 3	1.9	.39	10.3	29.	9.6	.79		
27	5 82 4	2.1	.56	8.4	14.	8.2	.90	30	5 82 4	2.8	.33	10.2	31.	9.5	.80		
27	5 82 5	.9	.93	8.5	1019.	8.2	.90	30	5 82 5	2.0	.06	11.2	29.	10.9	.75		
27	5 82 6	.3	.67	11.5	10.	11.0	.84	30	5 82 6	1.4	-.17	13.0	29.	13.5	.68		
27	5 82 7	1.0	-.26	13.4	32.	14.3	.64	30	5 82 7	1.0	-.10	14.9	28.	15.6	.62		
27	5 82 8	1.7	-.59	13.8	32.	15.1	.59	30	5 82 8	1.2	-.26	16.9	25.	17.8	.53		
27	5 82 9	1.4	-.65	14.5	32.	15.7	.53	30	5 82 9	2.6	-.30	17.6	25.	18.5	.51		
27	5 82 10	1.7	-.72	15.3	31.	16.5	.47	30	5 82 10	3.3	-.58	18.8	30.	20.3	.49		
27	5 82 11	1.2	-.55	16.1	31.	17.1	.43	30	5 82 11	2.0	-.88	20.8	31.	22.7	.43		
27	5 82 12	.9	-.70	17.0	33.	18.3	.39	30	5 82 12	2.0	-.87	21.2	1032.	22.7	.43		
27	5 82 13	1.5	-.43	16.3	1012.	16.8	.48	30	5 82 13	3.2	-.37	19.5	13.	20.2	.52		
27	5 82 14	1.9	-.11	14.4	13.	14.8	.61	30	5 82 14	3.7	-.33	18.4	13.	19.2	.55		
27	5 82 15	2.0	-.04	12.7	14.	12.9	.75	30	5 82 15	4.6	-.35	17.1	12.	17.8	.58		
27	5 82 16	1.4	-.04	13.3	13.	13.5	.76	30	5 82 16	4.0	-.41	17.4	12.	18.1	.58		
27	5 82 17	1.0	-.24	14.5	14.	14.3	.66	30	5 82 17	3.2	-.27	17.4	12.	18.1	.60		
27	5 82 18	1.0	.01	13.8	2.	14.1	.74	30	5 82 18	2.5	-.28	17.8	12.	14.4	.60		
27	5 82 19	2.3	.10	13.5	35.	13.6	.79	30	5 82 19	2.2	.26	17.3	12.	17.6	.61		
27	5 82 20	2.8	.10	13.2	34.	13.2	.83	30	5 82 20	1.1	.23	16.4	15.	15.9	.66		
27	5 82 21	3.6	.22	12.7	36.	12.6	.82	30	5 82 21	1.1	.59	17.0	24.	15.0	.67		
27	5 82 22	4.4	.10	12.4	1.	12.4	.77	30	5 82 22	2.6	.69	17.7	31.	16.4	.53		
27	5 82 23	4.3	-.16	11.2	33.	11.0	.80	30	5 82 23	3.2	.46	14.4	32.	15.6	.51		
27	5 82 24	5.0	.10	9.9	32.	9.7	.89	30	5 82 24	3.8	.61	15.6	32.	14.9	.50		

			FF	D-T	T10M	DD	T3M	RH	
31	5	82	1	3.7	.56	14.3	32.	13.8	.52
31	5	82	2	3.7	.64	13.2	31.	12.4	.57
31	5	82	3	3.1	.68	12.4	32.	11.5	.59
31	5	82	4	2.3	.48	12.0	33.	10.9	.62
31	5	82	5	2.9	.06	12.5	33.	12.2	.60
31	5	82	6	3.1	-.32	13.4	32.	14.5	.55
31	5	82	7	2.0	-.66	15.2	34.	17.2	.49
31	5	82	8	1.7	-.94	17.0	32.	19.7	.44
31	5	82	9	1.2	-.46	18.6	31.	19.7	.37
31	5	82	10	1.0	-.32	21.1	1001.	22.0	.25
31	5	82	11	3.6	-.40	18.3	13.	19.0	.43
31	5	82	12	4.1	-.39	18.0	13.	19.7	.42
31	5	82	13	4.6	-.37	18.0	13.	18.7	.44
31	5	82	14	4.0	-.39	18.8	13.	19.5	.47
31	5	82	15	4.0	-.53	18.5	13.	19.3	.47
31	5	82	16	5.2	-.38	16.0	12.	16.7	.56
31	5	82	17	4.8	-.32	15.7	12.	16.4	.63
31	5	82	18	4.4	-.20	15.3	12.	15.7	.68
31	5	82	19	4.0	-.14	14.8	12.	15.1	.69
31	5	82	20	3.4	.04	13.8	13.	13.8	.73
31	5	82	21	3.9	.13	12.8	12.	12.7	.82
31	5	82	22	4.4	.21	12.1	12.	12.0	.87
31	5	82	23	4.0	.35	11.8	12.	11.5	.88
31	5	82	24	3.2	.44	11.3	12.	10.8	.89

