

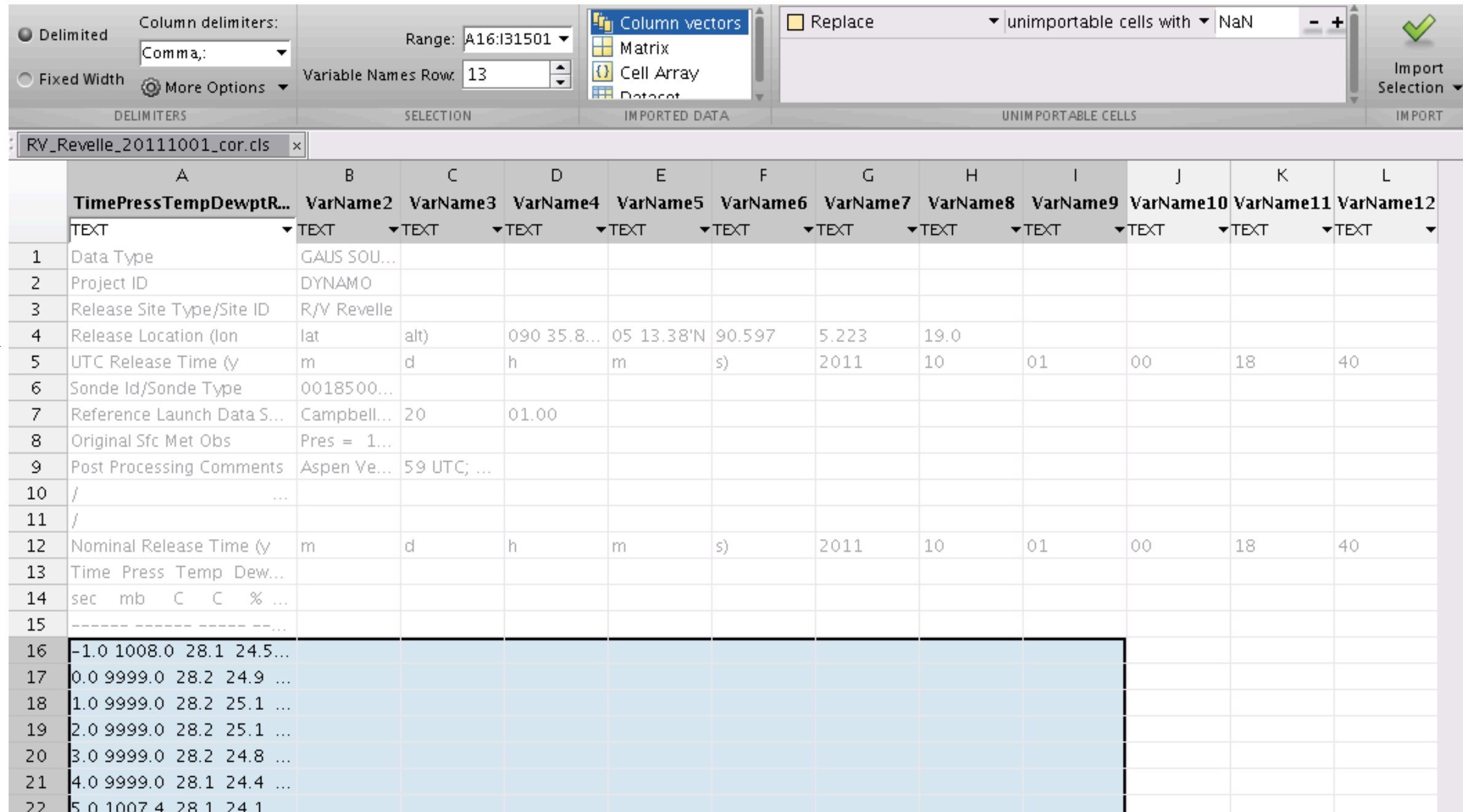
# DYNAMO Soundings

<div><div><div><div><div><div></div><div>Delimited</div></div><div><div>Fixed Width</div><div>More Options</div></div></div><div>Column delimiters:<div>Comma</div></div></div></div><div><div>Range: A16:U315...</div><div>Variable Names Row: 13</div></div></div>		<div><div>Column vectors</div><div>Matrix</div><div>Cell Array</div><div>Dataset</div></div>	<div><div>Replace</div><div>unimportable cells with NaN</div></div>	<div><div>Import Selection</div></div>	
DELIMITERS		SELECTION	IMPORTED DATA	UNIMPORTABLE CELLS	IMPORT

RV\_Revelle\_20111001\_cor.cls

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
	Time1	Press1	Temp1	Dewp...	RH1	Ucmp1	Vcmp1	spd1	dir	Wcmp1	Lon1	Lat1	Ele1	Azi1	Alt1	Qp1	Qt1	Qrh1	Qu1	Qv1	QdZ1
	NUM...	NUMB...	NUM...	NUM...	NUM...	NUMB...	NUMB...	NUM...	NUM...	NUM...	NUMBER	NUMBER	NUM...	NUM...	NUMBER	NU...	NU...	NU...	NU...	NU...	NU...
1	Data Type:					GAU	S SOUND	ING DA	TA/Asc	ending											
2	Project ID:					DYN	AMO														
3	Release Site	Type/S	ite ID :			R/V	Revell	e													
4	Release Locat	ion (lon,	lat,	alt):		090	35.81'	E, 05	13.38'	N, 90.	597, 5.22	3, 19.0									
5	UTC Release T	ime (y,m,d,h	,m,s):			201	1, 10,	01, 00	:18:40												
6	Sonde Id/Sond	e Type:				001	850065/V	aisal	a RS92	-SGP (ccGPS)											
7	Reference Lau	nc	h Data Sou	rce/Ti	me: Cam	p	bell S	cienti	fic CR	10/00:	20:01.00										
8	Original Sfc	Met Obs:				Pre	s = 10	07.80	(mb) T	emp =	27.97 (de	gC)	RH =	78.2	4 (%)						
9	Post P	rocessi	ng Com	ments:		Asp	en Ver	sion 3.	1; Cre	ated o	n 25 Oct	2012 18:	59 UTC	; Conf	iguration	ups	onde-	1s			
10	/					Su	rface p	ressur	e corr	ected											
11	/																				
12	Nominal Relea	se Tim	e (y,m,d,h,m	,s):	201	1, 10,	01, 00	:18:40													
13	Time	Press	Temp	Dewpt	RH	Ucmp	Vcmp	spd	dir	Wcmp	Lon	Lat	Ele	Azi	Alt	Qp	Qt	Qrh	Qu	Qv	QdZ
14	sec	mb	C	C	%	m/s	m/s	m/s	deg	m/s	deg	deg	deg	deg	m	code	code	code	code	code	code
15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
16	-1.0	1008.0	28.1	24.5	80.4	4.4	7.7	8.9	209.7	999.0	90.597	5.223	999.0	999.0	19.0	1.0	1.0	1.0	1.0	1.0	9.0
17	0.0	9999.0	28.2	24.9	81.9	3.7	5.8	6.9	212.8	999.0	90.597	5.223	999.0	999.0	99999.0	9.0	99.0	99.0	99.0	99.0	9.0
18	1.0	9999.0	28.2	25.1	83.1	3.8	6.0	7.2	212.4	999.0	90.597	5.223	999.0	999.0	99999.0	9.0	99.0	99.0	99.0	99.0	9.0
19	2.0	9999.0	28.2	25.1	82.6	3.9	6.3	7.4	212.1	999.0	90.597	5.223	999.0	999.0	99999.0	9.0	99.0	99.0	99.0	99.0	9.0
20	3.0	9999.0	28.2	24.8	81.3	4.1	6.5	7.7	212.0	999.0	90.597	5.223	999.0	999.0	99999.0	9.0	99.0	99.0	99.0	99.0	9.0
21	4.0	9999.0	28.1	24.4	79.9	4.2	6.7	7.9	212.0	999.0	90.597	5.223	999.0	999.0	99999.0	9.0	99.0	99.0	99.0	99.0	9.0
22	5.0	1007.4	28.1	24.1	78.8	4.3	6.9	8.1	212.2	3.2	90.597	5.223	999.0	999.0	25.3	1.0	1.0	1.0	1.0	1.0	99.0
23	6.0	1006.8	28.0	24.0	78.4	9999.0	9999.0	999.0	999.0	4.1	9999.000	999.000	999.0	999.0	30.5	1.0	1.0	1.0	9.0	9.0	99.0
24	7.0	1006.2	28.0	24.0	78.7	4.7	7.2	8.6	213.2	4.8	90.597	5.223	999.0	999.0	35.5	1.0	1.0	1.0	1.0	1.0	99.0
25	8.0	1005.7	27.9	24.1	79.2	9999.0	9999.0	999.0	999.0	5.1	9999.000	999.000	999.0	999.0	40.3	1.0	1.0	1.0	9.0	9.0	99.0
26	9.0	1005.1	27.9	24.1	79.7	5.1	7.3	8.9	214.7	5.4	90.597	5.224	999.0	999.0	45.3	1.0	1.0	1.0	1.0	1.0	99.0
27	10.0	1004.5	27.8	24.2	80.2	5.3	7.4	9.1	215.5	5.5	90.597	5.224	999.0	999.0	50.7	1.0	1.0	1.0	1.0	1.0	99.0
28	11.0	1003.9	27.8	24.1	80.2	5.5	7.4	9.2	216.4	5.7	90.597	5.224	999.0	999.0	56.3	1.0	1.0	1.0	1.0	1.0	99.0
29	12.0	1003.2	27.7	24.0	80.0	5.7	7.5	9.4	217.3	5.7	90.597	5.224	999.0	999.0	62.1	1.0	1.0	1.0	1.0	1.0	99.0
30	13.0	1002.6	27.7	24.0	80.0	5.9	7.5	9.5	217.9	5.7	90.597	5.224	999.0	999.0	67.8	1.0	1.0	1.0	1.0	1.0	99.0

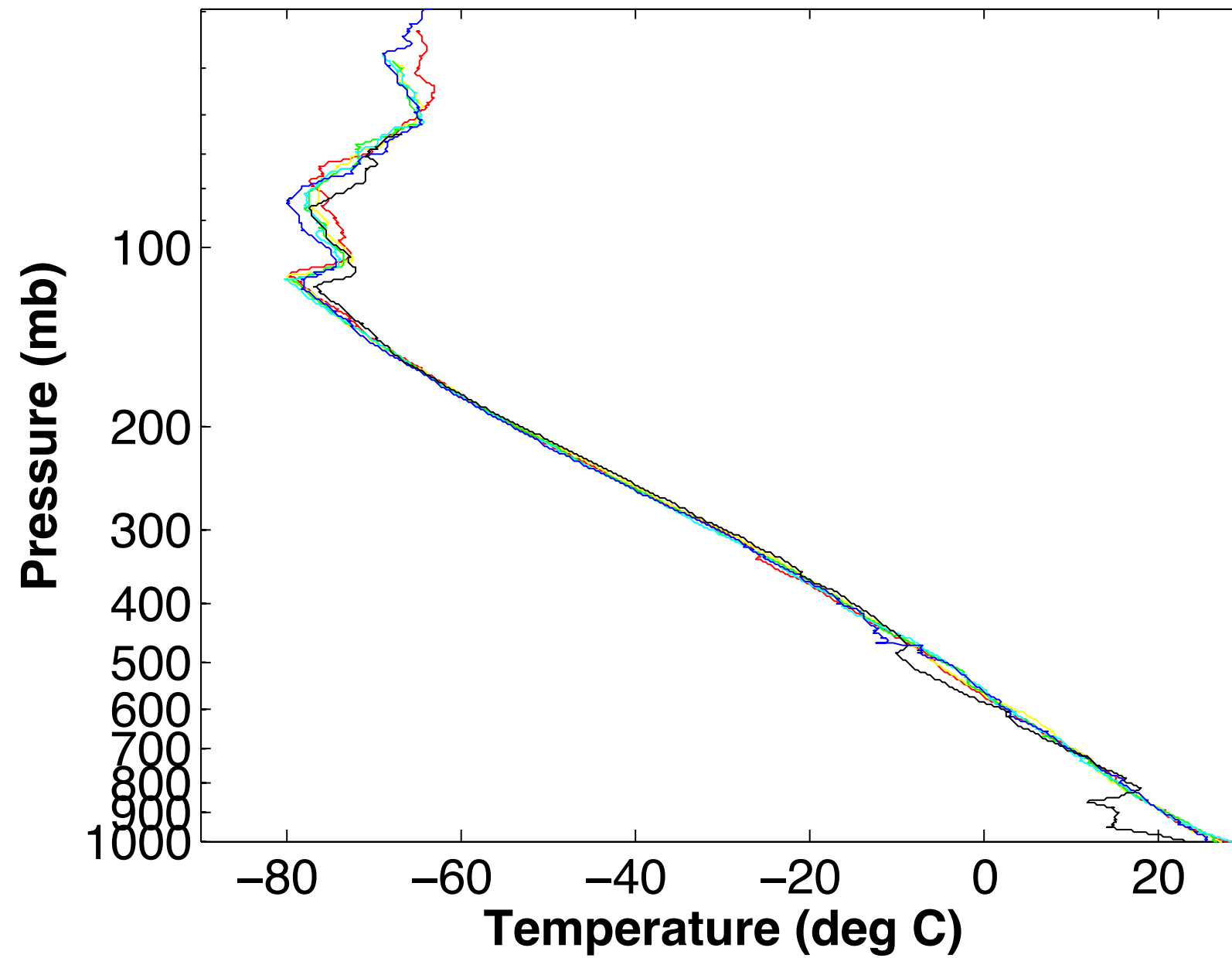
# Release Locations and Times in Accessible Form



	A	B	C	D	E	F	G	H	I	J	K	L
	TimePressTempDewptR...	VarName2	VarName3	VarName4	VarName5	VarName6	VarName7	VarName8	VarName9	VarName10	VarName11	VarName12
	TEXT	TEXT	TEXT	TEXT	TEXT	TEXT	TEXT	TEXT	TEXT	TEXT	TEXT	TEXT
1	Data Type	GAUS SOU...										
2	Project ID	DYNAMO										
3	Release Site Type/Site ID	R/V Revelle										
4	Release Location (lon	lat	alt)	090 35.8...	05 13.38'N	90.597	5.223	19.0				
5	UTC Release Time (y	m	d	h	m	s)	2011	10	01	00	18	40
6	Sonde Id/Sonde Type	0018500...										
7	Reference Launch Data S...	Campbell...	20	01.00								
8	Original Sfc Met Obs	Pres = 1...										
9	Post Processing Comments	Aspen Ve...	59 UTC; ...									
10	/											
11	/											
12	Nominal Release Time (y	m	d	h	m	s)	2011	10	01	00	18	40
13	Time Press Temp Dew...											
14	sec mb C C % ...											
15	-----											
16	-1.0 1008.0 28.1 24.5...											
17	0.0 9999.0 28.2 24.9 ...											
18	1.0 9999.0 28.2 25.1 ...											
19	2.0 9999.0 28.2 25.1 ...											
20	3.0 9999.0 28.2 24.8 ...											
21	4.0 9999.0 28.1 24.4 ...											
22	5.0 1007.4 28.1 24.1											

# Sample Plot

## Revelle Soundings 1 Oct 2011





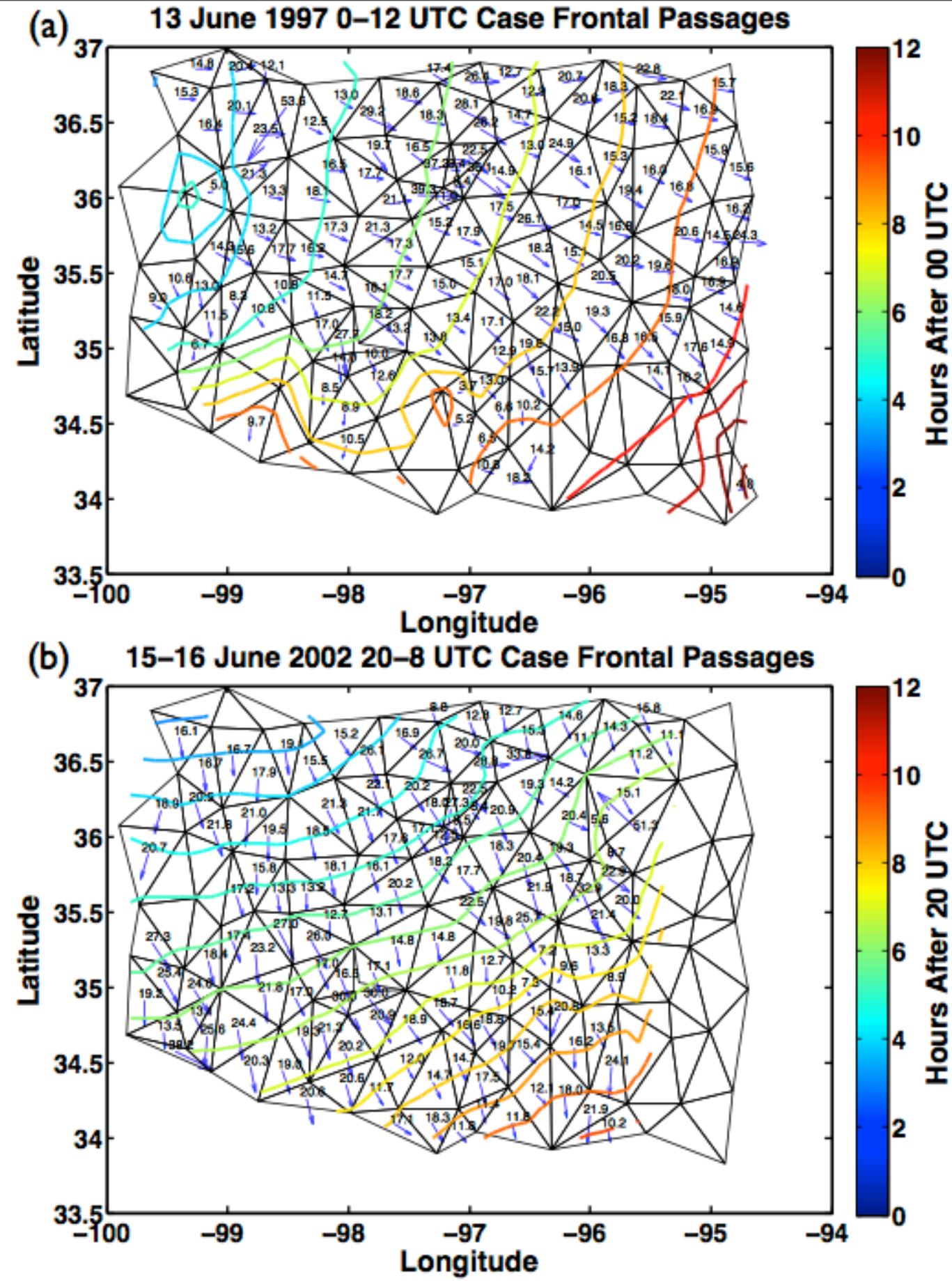


FIG. 7. Frontal passage location and timing with front speeds represented by quivers. Case studies are: a) 13 June 1997 0–12 UTC and b) 15–16 June 2002 20–8 UTC

Issues:  
1. Wind barb length different scale for each (how to create universal scale).

2. Do I even want to create universal scale? (Outliers like 80.9 ----> would stand out even more).

3. Seems too cramped for 4-panel, Fig 7 and Fig 7 continued?

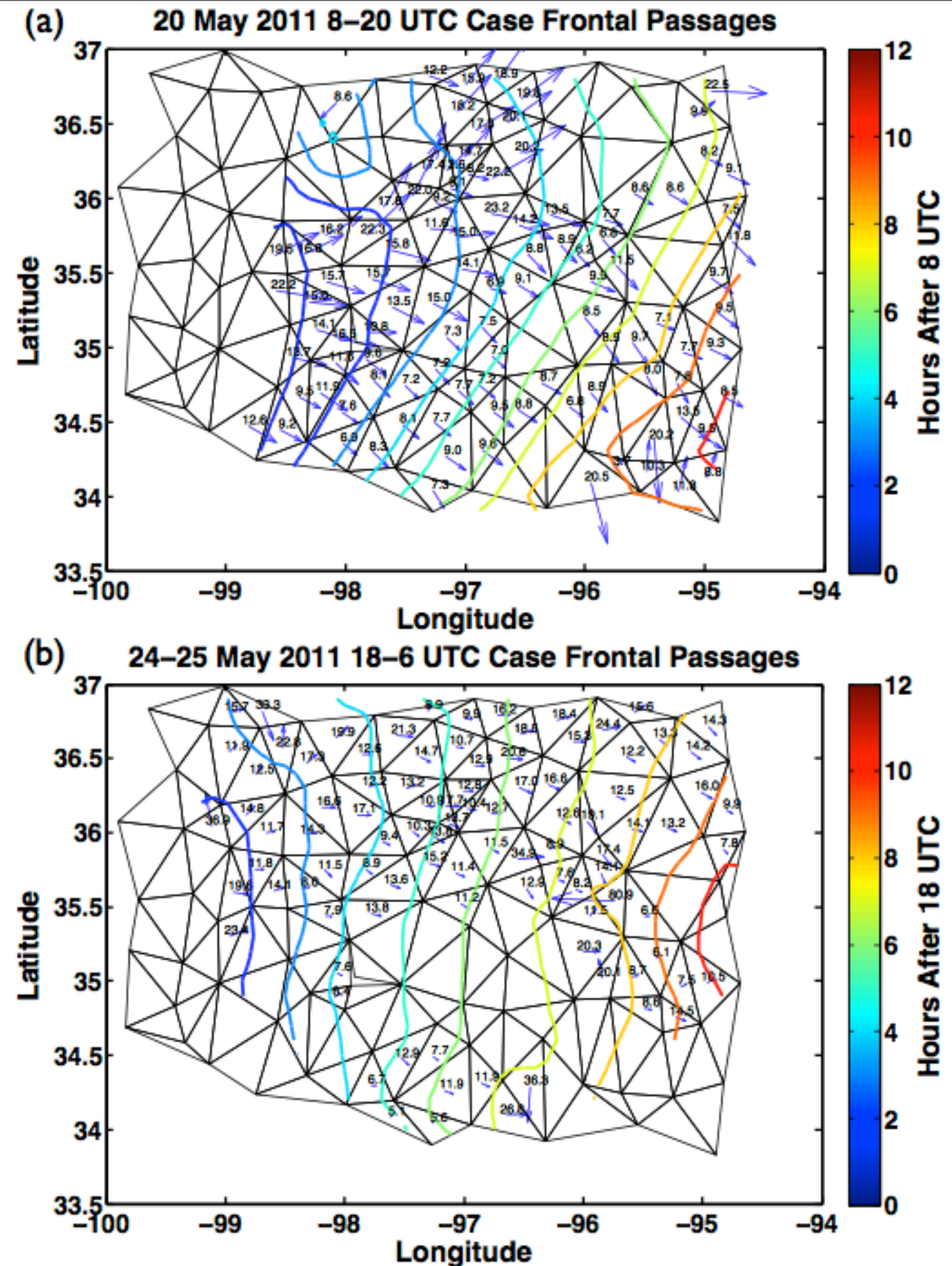


FIG. 8. Frontal passage location and timing with front speeds represented by quivers. Case studies are: a) 20 May 2011 8-18 UTC and b) 24-25 May 2011 15-15 UTC

```
\begin{figure}[t]
\noindent\centerline{\includegraphics[width=35pc,angle=0,viewport=240 150 690 750,clip]
{jopaperpart2figs/Fig7.pdf}}\\
\caption{Frontal passage location and timing with front speeds represented by quivers. Case studies are:
a) 13 June 1997 0-12 UTC and b) 15-16 June 2002 20-8 UTC}
\label{f7}
\end{figure}
```

```
\begin{figure}[t]
\noindent\centerline{\includegraphics[width=35pc,angle=0,viewport=250 140 700 740,clip]
{jopaperpart2figs/Fig8.pdf}}\\
\caption{Frontal passage location and timing with front speeds represented by quivers. Case studies are:
a) 20 May 2011 8-18 UTC and b) 24-25 May 2011 15-15 UTC}
\label{f8}
\end{figure}
```