# P13A.14 PERFORMANCE OF TWO VELOCITY DEALIASING ALGORITHMS ON TERMINAL DOPPLER WEATHER RADAR DATA

Arthur Witt\*

### NOAA/National Severe Storms Laboratory, Norman, Oklahoma

### 1. INTRODUCTION

The Supplemental Product Generator (SPG) has been developed to ingest Terminal Doppler Weather Radar (TDWR) base data and provide this data, along with algorithm products, to National Weather Service (NWS) forecast offices. Since the TDWR is a 5 cm wavelength radar, it typically operates at lower Nyquist velocities than the WSR-88D. The TDWR base data also contains far more non-precipitation echo compared to the WSR-88D, with very low reflectivities (<-5 dBZ) being common throughout the volume scan (i.e., not just at low elevation This abundance of non-precipitation angles). echo, which often contains regions of noisy or biased velocity data, coupled with low Nyquist velocities, often leads to a very challenging situation for dealiasing the velocity data. In weather situations involving high wind speeds and/or wind shear regions (e.g., gust fronts associated with squall-lines), together with a TDWR scanning at a low Nyquist velocity, dealiasing errors are common. Sometimes, the errors are so extensive that it is very difficult to properly utilize the velocity data (e.g., Fig. 1). Hence, improving the dealiasing capability of the SPG would greatly enhance the value of the TDWR velocity data. In pursuit of this goal, this project set out to compare the performance of the current SPG velocity dealiasing algorithm to a newly developed 2D multi-pass dealiasing algorithm (Zhang and Wang 2006).

# 2. METHODS

The SPG uses the same velocity dealiasing algorithm as in the WSR-88D Radar Product Generator, including checks involving a vertical wind profile updated via the Velocity Azimuth Display (VAD) algorithm. For this project, the default adaptable parameter settings were used. Test cases were started without a manually entered initial vertical wind profile. Hence, the vertical wind profile was generated solely from the VAD algorithm.

The new 2D multi-pass dealiasing algorithm (2DMPDA) is based on the horizontal continuity of velocity fields. The algorithm first determines a set of reference radials and gates by finding the weakest wind region on an elevation scan. Then, from these reference radials and gates, the scheme checks continuities among adjacent gates and corrects for the velocity values with large differences that are close to double the Nyquist Multiple passes of dealiasing are velocity. performed, and velocities identified as aliased with low confidence in an earlier pass are not dealiased until a discontinuity is detected with high confidence on a subsequent pass. Unlike the SPG velocity dealiasing algorithm, the 2DMPDA does not use a vertical wind profile. For more details on the algorithm, see Zhang and Wang (2006).

The performance of the two dealiasing algorithms was compared using data collected from the Baltimore/Washington (BWI) TDWR site for 8 severe weather events (Table 1). The storm types for these 8 events range from squall-lines to hailstorms with strong three-body-scatter-spikes (Lemon 1998) to supercells associated with the remains of Hurricane Ivan. The process started by running the SPG on the entire set of data available for each storm event. Base data output files were generated for each elevation scan in netCDF format, viewable by NSSL's WDSS-II display (Lakshmanan et al. 2007). Then, a subset of the event, during which the most intense storm activity was occurring, was selected for evaluation. Output files (also in netCDF format) from the 2DMPDA were generated using the raw TDWR velocity data for the subset time period. For some test cases, primarily during 2004, the SPG would occasionally abort a volume scan due to the azimuth tolerance threshold being exceeded. Hence, not all of the elevation scans which are normally part of a full volume scan were available for evaluation. Also, for the 6 June 2005 case, only elevation scans up to 13.4° were evaluated (due to there being minimal echo at higher elevation angles at the start of the case, and this

<sup>\*</sup>Corresponding author address: Arthur Witt, NSSL, 120 David L. Boren Blvd., Norman, OK 73072. E-mail: Arthur.Witt@noaa.gov

case having the longest subset time period).

The scoring procedure was quantitative in nature and similar to that used in another recent project evaluating the accuracy of WSR-88D velocity dealiasing (Brown and Wood 2005). Each elevation scan analyzed was given an initial score of 100, and "points" were subtracted for each dealiasing error observed (Table 2). In difficult situations where it was not obvious whether or not an error had occurred, or what the correct solution was, then no points were subtracted (for that particular area of the elevation scan). Although the maximum penalty for a single error was -50 points, there was no limit on the number of separate errors that could be tabulated for the entire elevation scan. Hence, numerous small errors could ultimately add up to a sizable penalty.

## 3. TEST RESULTS

Based on the scoring methodology presented above, the 2DMPDA did a slightly better job overall at dealiasing the TDWR velocity data compared to the current SPG dealiasing algorithm (Table 3). The 2DMPDA performed better than the SPG on 6 of the 8 test cases, with the greatest difference for the 6 June 2005 case, which had the lowest average Nyquist velocity. Looking at performance as a function of elevation angle, it is interesting that all of the superior performance for the 2DMPDA occurs at the two lowest angles (Table 4), with the SPG performing slightly better than the 2DMPDA at higher angles. One reason for this latter finding is that the 2DMPDA often made what appeared to be simple mistakes on scans at higher elevation angles (e.g., Fig. 2). Looking at performance as a function of Nyquist velocity, it is not surprising to see poorer performance for lower Nyquist velocities; this is particularly true for the SPG (Table 5). And it is at the lower Nyquist velocities that the 2DMPDA substantially outperforms the SPG. However, for Nyquist velocities >19 m s<sup>-1</sup>, the SPG generally outperforms the 2DMPDA.

One major difference between the SPG dealiasing algorithm and the 2DMPDA is that the latter does not use external wind data (i.e., a vertical wind profile). Lacking this information caused the 2DMPDA to suffer scoring penalties on 55 occasions, with the average performance score being 68. This is substantially worse than any of the performance scores for the 2DMPDA in Tables 3-5, and suggests that, at least for TDWR data, the 2DMPDA would benefit from having a check involving a vertical wind profile.

Another area where the 2DMPDA

underperformed versus the SPG dealiasing algorithm involved mesocyclone and other significant storm-scale shear signatures. Although the data set analyzed here did not contain a large number of these signatures, the 2DMPDA had greater difficulty properly dealiasing these signatures than did the SPG dealiasing algorithm (e.g., Fig. 3). This is likely due to the design of the 2DMPDA, which puts equal, if not greater, emphasis on azimuthal continuity of the velocity field versus radial continuity.

# 4. CONCLUSIONS

The test results for this project indicate that the new 2D multi-pass dealiasing algorithm offers the potential for improved TDWR velocity data, particularly at lower Nyquists. However, even though the 2DMPDA did perform better overall versus the SPG dealiasing algorithm, it did not do as well as the SPG with important severe weather signatures, such as mesocyclones. Hence, further testing is needed, along with perhaps adaptable parameter adjustments or other algorithm enhancements, before the 2DMPDA could be recommended as a replacement for the current SPG dealiasing algorithm. Modifications to the 2DMPDA, such as utilizing a vertical wind profile, would likely be beneficial.

Another area that could help improve the velocity dealiasing process, possibly in a major way, would involve better preprocessing of the raw velocity data before it is sent to the dealiasing algorithm. The TDWR base data often contain substantial amounts of non-precipitation echo with reflectivities <-5 dBZ. Velocity values in these low-reflectivity regions can be noisy or strongly biased (i.e., differ greatly from nearby velocities in a precipitation area; e.g., Fig. 4), and lead to the initiation of a large-scale dealiasing error, which propagate into a higher-reflectivity may precipitation area. At lower elevation angles, there frequently appear to be areas of rangefolded data that are not being properly identified as such (probably because these data are just above the threshold used to identify rangefolding), leading to regions of noisy data. This sometimes led to instances where there were fewer dealiasing errors on the low-PRF (and lower Nyquist) 0.5° elevation scan versus the "regular" (higher Nyquist) 0.5° scans. The TDWR data also suffer from substantial numbers of artifacts at lower elevation angles. These appear as "blocks" of nearly identical velocity values, usually having the dimension of 1-3 gates in range by 1-3 degrees in azimuth (e.g., Fig. 5). There can be

several of these artifacts on an elevation scan, in random locations.

With most dealiasing errors confined to, or initiating in, low-reflectivity regions, it is likely that removing this data prior to dealiasing an elevation scan would eliminate many of the currently observed dealiasing errors. Although the Federal Aviation Administration may wish to retain this lowreflectivity data in order to help identify weak microbursts and/or gust fronts, the utility of this data for NWS severe weather applications appears to be limited. It is possible that a major improvement in the quality of TDWR velocity data could be obtained by additional filtering of the base data, at a threshold appropriate for severe weather applications, before dealiasing is attempted.

#### 5. ACKNOWLEDGMENTS

The author thanks Rodger Brown for reviewing the manuscript. This project was supported by the NEXRAD Radar Operations Center.

#### 6. REFERENCES

Brown, R., and V. Wood, 2005: Evaluation of the Velocity Dealiasing Algorithm modified for superresolution WSR-88D data. Final Report for the FY 2005 NSSL-ROC MOU (Task 5.1), 13pp. [Available from the NEXRAD Radar Operations Center.]

Lakshmanan, V., T. Smith, G. J. Stumpf, and K. Hondl, 2007: The warning decision support system – integrated information (WDSS-II). *Wea. Forecasting*, **22**, 592-608.

Lemon, L. R., 1998: The radar "three-body scatter spike": An operational large-hail signature. *Wea. Forecasting*, **13**, 327-340.

Zhang, J., and S. Wang, 2006: An automated 2-D multi-pass Doppler radar velocity dealiasing scheme. *J. Atmos. Oceanic Technol.*, **23**, 1239-1248.

Date	Availab Start Time	le Data End Time	Subset Start Time	Selected End Time	Time Interval	Total scans evaluated	
7 Jul 2004 14 Jul 2004 4 Aug 2004 11 Aug 2004 17 Sep 2004 6 Jun 2005 23 Jul 2005 27 Jul 2005	18:36:14 18:04:40 20:55:15 18:07:22 22:47:01 21:07:13 03:11:54 19:08:48	01:26:41 01:53:10 01:25:12 02:17:53 02:45:50 07:52:12 08:01:47 01:40:07	20:00:07 19:04:59 22:56:46 19:19:19 22:47:01 21:57:01 04:37:28 21:46:27	20:57:26 20:06:58 00:01:49 20:30:21 23:52:04 23:26:00 05:42:31 22:51:29	57 62 65 71 65 89 65 65	174 169 224 252 168 225 231 230	
All				-	539	1673	

Table 1. List of the test cases. All times are in UTC, and the date corresponds to the start time (no cases had more than 12 hours of available data). The time interval (in min) corresponds to the subset period.

Table 2. Penalties for different types of dealiasing errors.

Description of Error	Penalty
Single gate or 2 adjacent gates Small radial spike (<3 km in length) Very small patch Small patch Large patch Swath of ~20° Swath of ~40° Swath of ~60°	-1 -2 -2 to -3 -4 to -8 -8 to -12 -12 to -16 -26 to -30 -32 to -38
owall of ~30 of larger	-+0 10 -50

Table 3. Overall performance scores for each test case.

Date	Number	Average	Average	score
	of scans	Nyquist (m s <sup>-1</sup> )	SPG	2DMPDA
4 Aug 2004	224	22.4	98.4	97.9
11 Aug 2004	252	22.9	94.6	96.2
7 Jul 2004	174	19.8	94.1	98.1
14 Jul 2004	169	19.8	90.7	93.6
23 Jul 2005	231	23.1	96.5	97.0
27 Jul 2005	230	21.9	93.8	96.8
6 Jul 2005	225	16.7	77.4	88.9
17 Sep 2004	168	21.7	92.1	89.5
All	1673	21.1	92.2	94.9

Elevation	Number	Average	Average	score	
Angle	of scans	Nyquist (m s⁻¹)	SPG	2DMPDA	
0.5°	505	18.9	82.2	91.3	
1.0°	89	19.6	91.1	94.4	
3.3°	171	19.5	94.9	94.1	
6.6°	171	19.5	94.9	94.4	
10.0°	169	19.5	93.9	93.8	
13.4°	166	22.4	97.7	97.6	
19.4°	136	25.8	99.6	99.3	
28.1°	133	25.8	99.9	99.6	
42.0°	133	25.8	100	99.6	

Table 4. Overall performance scores for each elevation angle. Note that the Nyquist velocity is only variable for elevation angles up to 10°.

Table 5. Overall performance scores for each Nyquist velocity. Note that although data were generated on 6 June 2005 using the 25.8 m s<sup>-1</sup> Nyquist velocity (at elevation angles >13.4°), that data were not used in the performance evaluation.

Nvauist	Number of	Number	Average	score	
$(m s^{-1})$	days used	of scans	SPG	2DMPDA	
14.3	5	71	74.2	84.2	
14.6	3	23	83.0	95.2	
14.9	1	11	76.0	84.4	
15.2	5	47	86.3	89.7	
15.6	3	84	76.5	88.7	
16.0	6	82	77.9	87.3	
16.4	1	38	80.2	94.1	
16.8	2	36	74.8	86.0	
17.2	2	25	83.4	91.6	
17.7	2	13	86.9	92.5	
18.1	3	6	86.3	87.0	
18.6	3	15	88.3	89.7	
19.2	3	32	94.6	89.1	
19.7	5	66	96.8	95.8	
20.3	3	74	97.1	95.1	
21.0	3	29	96.2	96.2	
21.7	3	42	94.3	94.0	
22.4	8	578	95.6	96.8	
25.8	7	402	99.8	99.5	



Fig. 1. Examples of velocity dealiasing errors from the SPG.



2DMPDA\_Aug\_04\_2004 Velocity 19.40 [2004 08/04 23:34:31 UTC]

Fig. 2. Examples of simple mistakes made by the 2DMPDA.



Fig. 3. Examples of velocity dealiasing errors made by the 2DMPDA (top-left and middle) involving stormscale shear signatures, and the correct velocity data produced by the SPG (top-right and bottom).





Fig. 4. Example of strongly biased velocity values associated with low reflectivities leading to a large-scale dealiasing error. Top-left shows 2DMPDA results and top-right shows SPG results.

3735 70000 77500 8000 8500 8200 8200 8200 8200 8200 8		349.00 350.00 351.00	352.00 353.00 3	354.00 355.00	0 356.00	RF MD <30 -	25 -20 -15 -10 -5	0 5.0 10.0	20.0 3	0.0 m/s
3720 7 0000 7 7500 8 2500 8 2500 7 2500 8 2500 7 7500 8 2500 8 5000 7 7500 8 2500 8 5000 7 2500 8 2500 7 2500 8 2500 7 2500 8 2500 7 2500 8 2500 7 2500 8 2500 7 2500 8 2500 7 2500 8 2500 8 2500 7 2500 8 25	37.35	7.00000 7.75000 8.50000	8.50000 8.25000 8	8.50000 8.5000	00 8.75000					
37 GE       72000       77000       82000       82000       77500       82000       75000       82000       75000       82000       75000       82000       75000       82000       75000       82000       75000       82000       75000       82000       75000       82000       75000       82000 <td< td=""><td>37.20</td><td>7 00000 7 75000 8 25000</td><td>0 8 25000 8 00000 7</td><td>7.50000 8.2500</td><td>00 8.50000</td><td></td><td></td><td></td><td></td><td></td></td<>	37.20	7 00000 7 75000 8 25000	0 8 25000 8 00000 7	7.50000 8.2500	00 8.50000					
38.90       7.50000       7.50000       8.50000       8.50000       9.50000	37.05	7.25000 7.75000 8.00000	8.25000 8.25000	7.75000 8.0000	00 8.75000					
38757 76000 8 0000 8 0000 8 26000 77500 77500 8 2700 8 2000 8 2000 8 0000 3860 8 0000 8 2000 8 2000 8 2000 8 2000 8 2000 8 2000 8 2000 8 0000 3860 8 2000 8 2000 8 2000 8 2000 8 2000 8 2000 8 2000 8 2000 8 0000 3860 8 2000 8 7000 8 2000 8 2000 8 2000 8 2000 8 2000 8 2000 8 2000 3860 8 2000 8 7000 8 2000 9 2000 8 2000 8 2000 8 2000 8 2000 8 2000 3860 8 2000 8 7000 8 2000 9 2000 8 2000 7 7500 8 2000 7 2000 8 2000 7 2000 8 2000 7 2000 8 2000 7 2000 8 2000 7 2000 8 2000 7 2000 8 2000 7 2000 8 2000 7 2000 8 2000 7 2000 8 2000 7 2000 8 2000 7 2000 8 2000 7 2000 8 2000 7 2000 8 2000 7 2000 8 2000 7 2000 8 2000 7 2000 8 2000 7 2000 8 2000 7 2000 8 2000 7 2000 8 2000 8 2000 8 2000 0 2000 8 2000 8 2000 8 2000 8 2000 0	36.90	7.50000 7.75000 8.50000	8.50000 7.75000 8	8.00000 8.0000	00 8.75000					
36 600 46 600	36.75	7.50000 8.00000 8.50000	8.25000 7.75000	7.75000 8.2500	00000.00					
35:45       0.0000       8.5000       9.5000       8.5000       9.5000       9.5000         35:46       9.5000       8.5000       9.5000       9.5000       9.5000       9.5000         35:46       9.5000       8.5000       9.5000       9.5000       9.5000       9.5000         35:46       9.5000       8.5000       9.5000       9.5000       9.5000       9.5000         36:47       9.5000       8.5000       9.5000       9.5000       9.5000       9.5000       9.5000         36:48       9.5000       8.5000       9.5000       8.5000       9.5000	36.60	8 00000 8 50000 8 25000	9.00000 8.00000 8	8 25000 8 5000	00000 0 00000		<b>-</b>			
<ul> <li>Si Scholle &amp; Frécole &amp; Scholle &amp;</li></ul>	36.45	8 00000 8 75000 8 50000	8 50000 7 75000 8	8 25000 8 7500	00000 0 00000					
131 15       3 75000       8 75000       8 2000	36.30	8 50000 8 75000 8 00000	8 75000 8 50000 8	8 50000 9 0000	0 9 25000					
20000       2:2000       8:2000	36.15	8 75000 8 75000 8 25000	9 00000 8 00000 8	8 50000 8 7500	0 9 25000					
15 16 16 12 5000 5 77000 5 2000 0 25000 5 25000 5 25000 5 10000 5 25000 5 10000 7 10000 5 25000 5 25000 5 25000 5 25000 5 10000 5 25000 5 10000 5 250000 5 25000 5 25000 5 25000 5 25000 5 25000 5 25000 5 25000 5 2500	36.00	8 25000 8 75000 8 50000	9 25000 8 50000	8 50000 8 7500	0 9.20000					
<ul> <li>Seriol &amp; Frond &amp; Pool &amp;</li></ul>	35.95	8.25000 8.75000 8.50000	9.25000 8.50000 8	0.00000 0.7500						
12 Cord       2 2000 8 6 5000 8 6 6000 7 2500 8 5000	25.00	8 50000 8 75000 8 35000	0 25000 8 25000 8	9.00000 9.2500	0 9.00000					
<ul> <li>Section 2 - 20000 8 2-2000 8 2-2000 8 2-0000</li></ul>	35.70	8.50000 8.75000 8.25000	9.25000 8.75000 8		0 8.50000					
32-20       72-2000 8 / 20	35.55	8.25000 8.50000 8.00000	8.25000 9.00000 8	8.75000 8.5000	0 8.50000		<b>*</b>			
<ul> <li>B.2 Gold B. / School B. School B.</li></ul>	35.40	7.50000 5.75000 8.75000	9.25000 9.00000	9.25000 8.7500	0 8.75000					
<ul> <li>10.100</li> <li>25000</li> <li< td=""><td>35.25</td><td>8.50000 8.75000 6.50000</td><td>9.25000 8.50000 8</td><td>8.00000 8.5000</td><td>000000</td><td></td><td></td><td></td><td></td><td></td></li<></ul>	35.25	8.50000 8.75000 6.50000	9.25000 8.50000 8	8.00000 8.5000	000000					
34 65       1,80000 7,2000 8,8000 9,2000 8,0000 9,2000 1,0000 8,2000 9,2000 1,20000 1,20000 1,2000 1,2000 1,20000 1,2000 1,2000 1,2000 1,	35.10	7.50000 8.75000 8.50000	9.00000 8.75000 8	8.25000 8.5000	000000					
314.00       5,75000       8,00000       100,	34.95	5.50000 7.25000 8.50000	9.25000 5.00000 8	8.50000 9.0000	00 9.25000		1			
34 65       340000 9 00000 9 20000 2 5000 8 2000 9 20000 0 25000 9 00000 9 2000 0 25000 9 00000 9 2000 0 25000 8 0000 9 2000 0 25000 9 0000 9 25000 9 0000 9 25000 9 0000 9 25000 9 0000 9 25000 9 0000 9 25000 9 0000 9 0000 9 25000 9 0000 8 0000 7 0000 9 0000 8 0000 7 0000 9 0000 8 0000 7 0000 9 0000 8 0000 7 0000 9 0000 9 0000 8 0000 7 0000 9 0000 9 0000 8 0000 7 0000 9 0000 8 0000 7 0000 9 0000 9 0000 9 0000 9 0000 9 0000 9 0000 9 0000 9 0000 8 0000 7 0000 9 0000 9 0000 1 0000 8 0000 7 0000 9 0000 1 0000 0 0 0000 1 00000 1 00000 1 0000 1 0000 1 00000 1 0000 1 0000 1 0000	34.80	5.75000 6.00000 8.00000	-10.2 -11.0	-9.25000 <mark>9.0000</mark>	00 9.25000		1			
34 50       (22000 7/5000 8 00000 9 25000 8 75000 8 75000 8 50000 9 25000 8 75000 8 50000 8 75000 8 50000 8 75000 8 50000 8 75000 8 50000 8 75000 8 50000 8 75000 8 50	34.65	3.50000 6.50000 9.00000	9.50000-11.0	-9.75000 <mark>8.7500</mark>	00000.0					_
34 35       6 00000 8 50000 8 50000 8 50000 7 5000 7 5000 8 500000 8 500000 8 50000 8 50000 8 50000 8 50000 8 50000 8	34.50	7.25000 7.75000 8.00000	9.25000 9.25000	8.00000 9.0000	00 9.25000		1			
34.20 7 (00000 7:50000 9:20000 10:0000 10:0000 10:0000 8:20000 8:2000 8:2000 0:0000 10:000 10:00000 10:00000 10:0000 10:0000 10:0000 10:0000 10:0000 10	34.35	6.00000 5.00000 8.50000	8.75000 5.00000 8	8.00000 9.0000	00 9.25000		- 📶			
84 05       7 / 25000       7 / 25000       9 00000       8 25000       8 00000       8 00000       8 00	34.20	7.00000 7.50000 9.25000	4.50000 1.75000	7.75000 8.7500	00 8.50000					
33.90 33.76 33.76 33.76 33.76 33.76 33.76 5.75000 350000 5.75000 2.5000 3.5000 5.75000 3.50000 5.75000 3.50000 5.75000 2.5000 2.5000 2.5000 7.75000 33.00 5.50000 8.75000 7.5000 8.50000 7.75000 7.50000 8.25000 7.50000 8.25000 2.270 32.76 5.75000 8.50000 8.50000 8.75000 7.25000 7.50000 8.25000 7.50000 5.25000 8.50000 8.50000 7.75000 7.55000 2.2500 7.50000 8.50000 8.50000 8.75000 7.25000 7.50000 2.2500 7.50000 8.50000 8.75000 7.25000 7.50000 5.25000 2.2500 7.50000 8.50000 8.75000 7.25000 7.50000 2.2500 7.50000 8.50000 8.75000 7.25000 7.50000 5.25000 2.2500 7.50000 8.50000 8.75000 7.25000 7.50000 5.50000 5.50000 8.00000 8.50000 8.75000 7.25000 7.50000 7.50000 5.50000 8.50000 8.75000 7.25000 7.50000 7.50000 5.50000 8.50000 8.50000 8.75000 7.25000 7.50000 5.50000 8.50000 8.75000 7.25000 7.50000 5.50000 5.50000 8.50000 8.75000 7.50000 5.50000 5.50000 5.50000 8.50000 8.70000 7.0000 8.50000 5.50000 5.50000 8.50000 8.50000 8.50000 8.50000 8.50000 8.50000 5.50000 8.50000 8.50000 8.50000 8.50000 8.50000 8.50000 5.50000 8.50000 8.50000 8.50000 8.50000 8.50000 8.50000 8.50000 5.50000 8.50000 8.50000 8.50000 8.50000 8.50000 8.50000 5.50000 8.50000 5.50000 8.500000 8.50000 8.50000 8.50000 8.50000 8.50000 8.50000 8.50000 8.5000	34.05	7 25000 7 25000 9 00000	0.00000 4.50000 8	8.00000 8.2500	00 8.50000	P		States and states		_
33.76       6 25000       250000       250000       550000	33.90	7.00000 4.50000 6.75000	0.50000 6.25000 8	8.00000 8.5000	00 8.50000					
33.60       6.75000       8.5000000       7.50000       8.50000       7.50000       8.50000       7.50000       8.50000       7.50000       8.50000       7.50000       8.50000       7.50000       8.50000       7.50000       8.50000       7.50000       8.50000       7.50000       8.50000       7.50000       7.50000       8.50000       7.50000       8.50000       7.50000       8.50000       7.50000       7.50000       8.50000       7.50000       8.50000       7.50000       7.50000       8.50000       7.50000       8.50000       7.50000       7.50000       8.50000       7.50000       8.50000       7.50000       7.50000       8.50000       7.500000       7.50000       7.50000	33.75	6.25000 -2.000007.25000	8.25000 8.75000	7.50000 8.5000	00 8.50000	1				
33.45       7.50008       8.250008       8.25000       7.50008       8.25000         33.15       7.50008       8.00008       8.0000       8.5000       7.5000       8.25000         33.16       7.50008       8.00008       8.0000       8.25000       7.50008       8.25000         33.16       7.50008       8.00008       8.00008       8.00000       7.50008       8.25000         32.65       7.50008       8.00008       8.00008       7.50008       8.25000       7.50008       8.00008       7.50008       8.00008       7.50008       8.00008       7.50008       8.00008       7.50008       8.00008       7.50008       8.00008       7.50008       8.00008       7.50008       8.00008       7.50008       8.00008       7.50008       8.00008       7.50008       8.00008       7.50008       8.00008       7.50008       8.00008       7.50008       8.00008       7.50008       8.00008       <	33.60	6.75000 3.50000 5.25000	8.75000 8.50000	7.75000 8.2500	00 7.75000					
33.30 33.16 33.16 33.16 33.16 33.16 33.16 33.16 33.16 33.16 33.16 33.16 33.16 33.16 33.16 35.7000 7 75000 8 50000 8 50000 8 25000 7 25000 8 25000 7 50000 32.00 575000 7 75000 8 50000 8 25000 7 25000 7 25000 45000 8 50000 8 50000 8 25000 7 25000 7 25000 50000 8 50000 8 50000 8 25000 7 25000 7 25000 32.00 575000 8 50000 8 50000 8 25000 7 25000 7 25000 50000 8 50000 8 50000 8 25000 7 25000 7 25000 32.00 32.00 575000 8 50000 8 50000 8 25000 7 25000 7 25000 32.00 50000 8 50000 8 50000 8 25000 7 25000 7 25000 32.00 7 75000 8 50000 8 50000 8 25000 7 25000 175000 1 20000 1 2000 8 25000 7 25000 175000 1 20000 8 25000 2 75000 7 25000 1 20000 1 2000 1 2000 1 2000 1 200 30 0 m/c         32.70 32.70 33.70 34.70 35.70 35.70 35.70 35.000 1 20000 1 20000 1 20000 1 20000 1 20000 1 2000 1 2000 1 200 30 0 m/c         32.70 32.70 33.70 34.70 50000 1 20000 1 20000 1 2000 1 2000 1 2000 1 0 200 30 0 m/c         32.70 33.70 34.70 40000 1 20000 1 20000 1 20000 1 2000 1 2000 1 2000 1 0 200 30 0 m/c         32.70 33.70 34.70 40000 1 20000 1 20000 1 20000 1 4 50000 1 5000000 1 5000000 1 5000000 1 5000000 1 500000 1 500000 1 500000 1 500000 1 5	33.45	7.50000 8.75000 6.25000	8.25000 8.25000	7.50000 7.7500	00 8.25000					
13316       7 00000 7 75000 8 50000 8 50000 7 25000 7 50000 8 25000 7 75000 8 20000 7 25000 8 00000 7 25000 8 00000 7 25000 8 00000 7 25000 8 00000 7 25000 8 00000 7 25000 8 00000 8 25000 7 25000 8 00000 8 250000 8 250000 8 25000 8 250000 8 25000 8 25000 8 25000	33 30	5 50000 8 00000 6 75000	9 00000 8 50000	7 75000 7 5000	00 8 25000					_
\$3300       \$75000       \$75000       \$500000       \$50000       \$50000	33 15	7 00000 7 75000 8 50000	8 50000 8 25000	7 25000 7 5000	00 8 25000					•
12255       7 50000       8 50000       8 75000       7 550000       7 550000       7 50000	33.00	5 75000 7 75000 8 50000	8 00000 8 00000	7 00000 7 2500	00 8 00000					_
12 270       6 75000 8 50000 8 25000 7 50000 7 75000 7 75000 7 75000 7 9 25000         12 265       8 0000 6 25000 7 50000 7 20000 6 5000 6 775000 7 05000 0 9 25000         12 261       7 75000 6 0000 7 20000 7 20000 6 25000 1 350000 7 75000 7 05000 0 9 25000         12 261       7 75000 6 0000 7 20000 7 20000 7 25000 7 00000 8 25000         12 260       7 75000 6 0000 7 20000 7 20000 8 25000 1 350000 1 7 25000         12 270       33 70       31 70       32 70 <td>32.85</td> <td>7 50000 8 50000 8 50000</td> <td>8 75000 8 25000</td> <td>7 25000 3 5000</td> <td>7 50000</td> <td>-</td> <td></td> <td>_</td> <td></td> <td></td>	32.85	7 50000 8 50000 8 50000	8 75000 8 25000	7 25000 3 5000	7 50000	-		_		
12255       9 00000 8 225000 8 750000 7 25000 5 250000 5 25000       200001 7 250000       200001 7 250000       200001 7 250000       200001 7 250000       200001 7 250000       200001 7 250000       200001 7 250000       200001 7 250000       200001 7 250000       200001 7 250000       200001 7 250000       200001 7 250000       200001 7 250000       200001 7 250000       200001 7 250000       200001 7 250000 7 250000       2500001 7 250000 7 250	32 70	6 75000 8 00000 8 50000	8 00000 7 25000	7 50000 6 5000	0 7 75000					
32.400       7,75000       5,00000       7,50000       5,00000       7,50000       5,00000       7,50000       5,00000       7,00000	32.55	8 00000 6 25000 8 75000	7 25000 6 50000		0 9 25000					
32.70       33.70       34.70       35.70       36.70       37.70       38.70       39.70       RF       MD       Stable       220.470.47       Stable       Sta	32.40	7 75000 6 00000 7 50000	7 00000 6 25000		007 75000	0010	10A 10 44 0004 1	(-I	04 00/44 00	
32.70       33.70       34.70       35.70       36.70       37.70       38.70 <td< td=""><td>22.40</td><td>7.25000 7.00000 7.35000</td><td>8 50000 7 75000</td><td>2 75000 7 0000</td><td>00 6 75000</td><td>20Mi</td><td>2DA_Aug_11_2004</td><td>velocity 00.50 [2t</td><td>04 08/11 20</td><td>0:02:18 010j</td></td<>	22.40	7.25000 7.00000 7.35000	8 50000 7 75000	2 75000 7 0000	00 6 75000	20Mi	2DA_Aug_11_2004	velocity 00.50 [2t	04 08/11 20	0:02:18 010j
32.70       33.70       34.70       35.70       38.70       39.70       RF       MD 2650       225       20       15       10       50       10.0       20.0       30.0       mrs         55.05       43.500001-6.500001-6.500001-8       6.500001-5.5000001-8       5000001-5.500000-5.500000       5000001-5.500000-5.50000-5.500000-5.500000-5.50000-5.500000-5.500000-5.500000-5.500000-5.50000-5.500000-5.50000-5.500000-5.500000-5.500000-5.500000-5.50000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.50000-5.50000-5.500000-5.500000-5.500000-5.50000-5.50000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.50000-5.5000000-5.5000000-5.500000-5.5000000-5.5000000-5.5000000-5										
32.70       33.70       38.70       36.70       37.70       38.70       39.70       RF       MD       2530       -25.20.15       10.15       0       30.0       mrs         54.90       -5.00004       6.00004.5       500004       5.00004 <th></th>										
25:000       35:0000-6:0000-6:0000-6:0000-7:00000-4:00000-5:00000-5:00000-5:00000-5:00000-7:00000-7:00000-7:00000-7:00000-7:00000-6:0000-5:00000-5:00000-7:00000-7:00000-7:00000-6:0000-6:0000-5:00000-7:00000-6:0000-6:0000-7:00000-6:0000-6:0000-7:00000-6:0000-6:0000-7:0000-6:0000-7:0000-6:0000-7:0000-6:0000-7:00000-6:0000-7:00000-6:0000-7:00000-6:0000-7:00000-6:0000-7:0000-6:0000-7:0000-6:0000-7:0000-6:0000-7:0000-6:0000-7:0000-6:0000-7:0000-6:0000-7:0000-6:0000-7:00000-7:0000-6:0000-7:00000-6:0000-7:00000-6:0000-7:0000-6:0000-7:0000-6:0000-7:0000-6:0000-7:0000-6:0000-7:0000-6:0000-7:0000-6:0000-7:0000-6:0000-7:0000-6:0000-7:0000-6:0000-7:0000-6:0000-7:0000-7:0000-6:0000-7:0000-6:0000-7:00000-7:0000-6:0000-7:0000-6:0000-7:0000-6:0000-7:00000-7:00000-7:0000-7:0000-7:0000-7:0000-7:0000-7:0000-7:0000-7:00			05 70 00 70	<u> </u>	00.70					
94.90       5.00001-6.0000-5.00000.41       6.500001-5.000001-5.000000         54.60       7.00000-6.500000-5.000000.41       5.00000-5.500000-5.000000         54.40       7.00000-6.500000-5.000000.41       5.00000-5.000000         54.45       7.00000-6.500000-7.000000-7.000000-0.500000-0.500000-0.5000000       5.00000-5.000000-0.50000-0.50000-0.50000-0.50000-0.50000-0.50000-0.500000-0.500000-0.500000-0.500000-0.500000-0.500000-0.500000-0.500000-0.500000-0.5	55.05	32.70 33.70 34.70	35.70 36.70	37.70 38.70	39.70	RF MD <u>&lt;30</u>	25 -20 -15 -10 -5	0 5.0 10.0	20.0 3	0.0 m/s
54 75       -6 50000-5 500000       -5 00000       -5 00000       -5 00000         54 60       -7 00000       -6 00000       -7 00000       -6 500000       -6 00000-1 2.5 500000       -7 500000-1 6 00000-1 5 500000       -7 500000-1 6 00000-1 5 500000       -7 50000-1 6 00000-1 5 500000       -7 50000-1 6 00000-1 5 500000       -7 50000-1 7 00000-1 6 00000-1 5 500000       -7 50000-1 7 00000-1 6 00000-1 5 00000-1 7 00000-1 5 000000       -7 50000-1 7 00000-1 6 00000-1 5 00000-1 7 00000-1 5 000000       -7 50000-1 7 00000-1 6 00000-1 5 00000-1 7 00000-1 5 000000       -7 50000-1 7 00000-1 6 00000-1 5 00000-1 7 00000-1 5 000000       -7 50000-1 7 00000-1 6 00000-1 7 00000-1 6 00000-1 5 000000       -7	55.05	32.70 33.70 34.70 -3.50000-6.00000-6.5000	35.70 36.70 C-6.5000CRF	37.70 38.70 5.00000-4.500	39.70 00-3.50000	RF MD <u>~30</u> -	25 -20 -15 -10 -5	0 5.0 10.0	20.0 3	0.0 m/s
54.60       -7.0000-6.50000-7.00000       FN       = 5.00000-4.00000       5.00000-4.00000         54.45       -7.0000-6.50000-5.00000       -7.00000-6.00000-7.00000-4.00000-5.00000       5.00000-4.00000       -6.00000-5.00000         54.15       -6.0000-5.00000-7.00000-7.00000-7.00000-4.00000-5.00000       -6.00000-5.00000       -6.0000-7.00	55.05 54.90	32.70 33.70 34.70 -3.50000-6.0000-6.5000 -5.00000-3.50000-6.0000	35.70 36.70 C-6.5000CRF C-5.5000CRF	37.70 38.70 -5.00000-4.500 -6.50000-5.000	39.70 00-3.50000 00-5.00000	RF MD <u>~30</u> -	25 -20 -15 -10 -5	0 5.0 10.0	20.0 3	0.0 m/s
54.45       7.00000-6.00000-6.00000-6.500000       5.00000-4.000000         54.30       7.00000-5.00000-7.00000-7.00000-6.00000-6.500000       6.00000-6.00000-6.00000-6.00000-7.00000-7.00000-6.000000         54.15       -6.00000-6.00000-6.00000-7.00000-7.00000-6.000000-6.000000       -5.00000-6.00000-6.00000-7.00000-7.00000-6.000000         53.85       -5.00000-5.00000-8.00000-7.00000-6.000000-7.00000-6.000000       -5.00000-6.00000-7.00000-7.00000-6.000000-7.00000-6.000000         53.40       -6.00000-8.00000-7.00000-5.000000-8.000000-8.000000-8.000000-8.000000-8.000000-8.000000-7.00000-6.00000-7.00000-6.00000-7.00000-6.00000-7.00000-5.00000-7.00000-5.00000-7.00000-5.00000-7.00000-7.00000-6.00000-7.00000-6.00000-7.00000-5.00000-7.00000-7.00000-6.00000-7.0	55.05 54.90 54.75	32.70 33.70 34.70 -3.50000-6.00000-6.5000 -5.00000-3.50000-6.0000 -6.50000-6.50000-5.0000	35.70 36.70 C-6.5000CRF C-5.5000CRF CRF <u>-5.0000C</u>	37.70 38.70 -5.00000-4.500 -6.50000-5.000 -5.50000-5.500	39.70 00-3.50000 00-5.00000 000-5.50000	RF MD <u>~30</u>	25 -20 -15 -10 -5	0 5.0 10.0	20.0 3	0.0 m/s
54 30       -7 00000-5 50000-5 00000-7 00000-6 00000-6 00000-5 00000         54 15       -6 00000_300000-7 00000-6 50000-6 500000-5 00000         53 85       -5 50000-5 00000-7 00000-5 50000-5 00000-4 500000         53 70       -6 000002_300000-6 00000-7 00000-5 500000-5 00000-6 00000         53 40       -6 00000-7 00000-6 00000-7 00000-6 00000-7 00000-6 500000         53 40       -6 00000-7 00000-6 00000-7 00000-6 00000-7 00000-6 00000         53 40       -6 00000-7 00000-6 00000-7 00000-6 00000-7 00000-6 00000         53 40       -6 00000-7 00000-6 00000-7 00000-6 00000-5 50000         53 40       -6 00000-7 00000-6 00000-7 00000-5 50000         53 40       -6 00000-7 00000-6 00000-5 50000-5 50000         53 40       -5 50000-1 10000-6 50000-7 00000-5 50000         53 40       -5 00000-1 00000-1 6 00000-7 00000-5 50000         52 45       -5 50000-1 50000-1 50000-5 50000-5 50000         52 55       -5 50000-1 50000-1 50000-1 500000-5 50000         52 50       -5 00000-6 50000-6 00000-5 500000-5 50000         52 50       -5 50000-5 50000-6 00000-5 50000-5 50000         51 00       -5 00000-6 50000-5 50000-7 00000-5 50000         51 00       -5 00000-6 50000-6 50000-7 00000-5 50000         51 00       -5 00000-5 50000-6 50000-7 00000-5 50000         51 00       -5 00000-6 500000-6 00000-5 500000       -5 00000-	55.05 54.90 54.75 54.60	32.70 33.70 34.70 -3.5000-6.0000-6.5000 -5.0000-3.5000-6.0000 -6.5000-6.5000-5.0000 -7.0000-6.50000-7.0000	35.70 36.70 C-6.5000CRF C-5.5000CRF CRF -5.0000C CRF -5.0000C	37.70         38.70           -5.00000         -4.500           -6.50000         -5.000           -5.50000         -5.500           -5.00000         -6.500	39.70 00-3.50000 00-5.00000 00-5.50000 00-5.00000	RF MD <u>~30</u> -	25 -20 -15 -10 -5	0 5.0 10.0	20.0 3	0.0 m/s
54.15       -6.00000_3:000007.0000C_6:000007.0000C_4:00000         54.00       8.00000_0:00000_6:0000C_5:0000C_6:00000C_6:00000         53.85       -5.50000_5:0000_6:0000C_7:0000C_5:0000C_6:00000         53.70       -6.00000_3:0000_6:0000C_7:0000C_7:0000C_6:00000         53.45       -5.0000C_6:0000C_7:0000C_7:0000C_6:00000         53.45       -5.0000C_6:0000C_7:0000C_7:0000C_6:00000_6:00000         53.40       -6.0000C_7:0000C_7:0000C_6:0000C_5:00000         53.40       -6.0000C_7:0000C_7:0000C_6:0000C_5:00000         53.40       -5.0000C_6:0000C_7:0000C_6:0000C_5:00000         53.40       -5.0000C_1:0000C_7:0000C_6:0000C_5:00000         52.80       -5.0000C_1:0000C_1:0000C_5:0000C_5:00000         52.80       -5.0000C_6:0000C_6:0000C_6:0000C_5:00000         52.80       -5.0000C_6:0000C_6:0000C_6:0000C_6:00000         52.80       -5.0000C_6:0000C_6:0000C_6:0000C_6:00000         52.80       -5.0000C_6:0000C_6:0000C_6:0000C_6:0000C_6:00000         52.80       -5.0000C_6:0000C_6:0000C_6:0000C_6:0000C_6:00000C_6:00000         52.80       -5.0000C_6:0000C_6:0000C_6:0000C_6:0000C_6:00000         52.80       -5.0000C_6:0000C_6:0000C_6:0000C_6:0000C_6:00000         52.80       -5.0000C_6:0000C_6:0000C_6:0000C_6:0000C_6:00000         51.70       -5.0000C_6:0000C_6:0000C_6:0000C_6:00000C_6:00000C_6:00000C_6:0000C_6:0000C_6:000	55.05 54.90 54.75 54.60 54.45	32.70         33.70         34.70           -3.50000         -6.00000         -6.5000           -5.00000         -3.50000         -6.0000           -6.50000         -6.50000         -5.0000           -7.00000         -6.50000         -5.0000           -7.00000         -6.50000         -5.0000	35.70 36.70 C-6.5000C RF C-5.5000C RF CRF -5.00000 CRF -5.00000 CRF -5.00000 C-6.5000C -5.00000	37.70         38.70           5.00000         4.500           6.50000         5.0000           5.50000         -5.500           -5.00000         -6.500           -10.5         -5.0000	39.70 00-3.50000 00-5.00000 00-5.50000 00-5.00000 00-4.00000	RF MD <u>~30</u> -	25 -20 -15 -10 -5	0 5.0 10.0	20.0 3	0.0 m/s
54.00       8.000000.00000       6.0000C - 5.5000C - 5.00000       500000 - 5.00000         53.85       -5.50000C - 50000C - 7.0000C - 5.50000       500000 - 4.50000       4.00000 - 4.50000         53.40       -6.00000 - 5.0000C - 7.00000 - 5.50000       -5.50000       -5.50000         53.40       -6.00000 - 1.50000       -0.0000 - 5.50000       -6.00000 - 4.50000         53.40       -6.00000 - 1.50000       -0.0000 - 5.50000       -5.50000         53.40       -6.00000 - 1.50000       -0.0000 - 5.50000       -5.50000         53.40       -6.00000 - 1.00000 - 6.00000 - 5.50000       -5.50000       -5.50000         53.40       -6.00000 - 1.00000 - 6.00000 - 5.50000       -5.50000       -5.50000         53.40       -6.00000 - 5.00000 - 1.00000 - 5.50000       -7.50000 - 5.50000       -5.50000         52.95       -5.00000 - 5.0000 - 5.0000 - 5.50000 - 5.50000       -7.50000 - 5.50000       -7.50000 - 5.50000         52.20       -6.00000 - 6.0000 - 5.00000 - 5.00000 - 5.500000       -7.00000 - 5.50000 - 5.50000       -7.00000 - 6.0000 - 5.50000         52.20       -5.0000 - 6.0000 - 5.00000 - 5.00000 - 5.00000 - 5.00000 - 5.500000       -5.00000 - 5.00000 - 5.00000 - 5.00000 - 5.500000       -7.00000 - 5.50000 - 5.00000 - 5.00000 - 5.00000 - 5.00000 - 5.00000 - 5.00000 - 5.00000 - 5.00000 - 5.00000 - 5.00000 - 5.00000 - 5.00000 - 5.000000 - 5.000000 - 5.00000 - 5.00000 - 5.00000 - 5.00000	55.05 54.90 54.75 54.60 54.45 54.30	32.70 33.70 34.70 3.50000 6.0000 6.5000 5.00000 8.50000 6.0000 6.50000 6.50000 7.0000 7.00000 6.00000 5.0000 7.00000 5.50000 5.0000	35.70 36.70 C-6.5000CRF C-5.5000CRF CRF -5.0000C CRF -5.0000C CRF -5.0000C -6.5000C -5.0000C CRF, 0000C -7.0000C	37.70         38.70           5.0000         4.500           6.5000C         5.000           5.5000C         5.00           5.0000C         6.500           10.5         5.000           6.0000C         6.500	39.70 00-3.50000 00-5.00000 00-5.50000 00-5.00000 00-4.00000 00-5.00000	RF MD 🐝 )	25 -20 -15 -10 -5	0 5.0 10.0	20.0 3	0.0 m/s
5385       -5 50000-500000-6 000000-7 00000-5 500000-5 500000-4 500000         5370       -6 00000-3 500000-8 00000-7 00000-6 000000-7 00000-6 500000         5340       -6 00000-12.5       -11.5       -6 00000-7 00000-6 00000-7 00000-6 00000-7 00000-6 500000         5340       -5 00000-150000-8 00000-7 00000-7 00000-6 00000-7 00000-6 500000       -5 50000-1 50000-1 000000-7 000000-7 00000-6 00000-5 500000         5295       -5 50000-1 50000-1 000000-7 000000-6 00000-5 500000       -7 50000-5 50000-6 00000-5 500000         5280       -5 50000-5 00000-7 0000000000-5 500000-6 000000-5 500000       -7 50000-6 00000-5 500000-6 000000-5 500000         5285       -5 50000-6 500000-6 00000-6 000000-5 500000       -7 50000-6 500000-6 00000-5 500000-6 000000-5 500000         5240       -5 50000-6 500000-6 00000-7 00000-7 00000-5 500000       -7 00000-6 00000-5 50000-6 000000-5 500000         5240       -5 50000-6 500000-6 00000-7 00000-7 00000-5 500000       -8 00000-5 50000-6 00000-5 500000         52205       -5 50000-6 50000-6 500000-7 00000-7 00000-7 000000-5 500000       -8 00000-5 500000-6 00000-7 00000-7 00000-7 00000-7 00000-8 00000-15 500000         5170       -5 50000-6 50000-6 500000-6 000000-5 500000       -5 50000-6 50000-6 50000-6 00000-7 00000-6 000000-5 500000       -5 50000-6 50000-6 00000-7 00000-6 500000-6 500000-6 00000-7 00000-6 500000-6 500000-6 00000-7 00000-6 500000-6 500000-6 500000-6 500000-6 500000-6 500000-6 500000-6 500000-6 500000-6 500000-6 500000-6 500000-6 500000-6 500000-6 50000-6 500000-6 500000-6 50000-6 5	55.05 54.90 54.75 54.60 54.45 54.30 54.15	32.70         33.70         34.70           -3.50000         -6.00000         -6.5000           500000         -3.50000         -6.0000           -6.50000         -5.0000         -7.0000           -7.00000         -6.50000         -7.0000           -7.00000         -6.50000         -5.0000           -7.00000         -5.50000         -5.0000           -6.50000         -5.0000         -7.0000           -7.00000         -5.50000         -7.0000           -6.00000         -5.0000         -7.0000	35.70         36.70           C-6.5000C RF         5.0000           C-5.5000C RF         5.00000           C RF         5.00000           C-6.5000C         5.00000           0.7.00000         -7.00000           0.7.00000         -7.00000           0.7.00000         -6.00000	37.70         38.70           5.0000         4.500           6.50000         5.000           5.50000         -5.500           5.00000         -6.500           10.5         5.000           6.00000         -6.500           7.00000         -4.000	39.70 00-3.50000 00-5.00000 00-5.00000 00-5.00000 00-5.00000 00-5.00000	RF MD 🕺	25 -20 -15 -10 -5	0 5.0 10.0	20.0 3	0.0 m/s
53.70       6.00000C 8.50000 6.50000C 15.0000C 15.0000C 45.00000       8.00000         53.55       5.00000C 5.0000C 12.5       1.1.5       -6.00000 -7.00000 -6.0000C 7.00000 -5.50000         53.40       6.00000 -12.5       -1.1.5       -6.00000 -6.0000C -5.50000       -5.500000         53.10       -5.50000 -1.50000 -1.0000C -7.00000 -6.50000C -5.50000       -5.500000       -7.00000 -6.00000 -5.50000         52.95       -5.00000 -1.50000 -1.0000C + 5.0000C -4.50000 -5.50000       -7.00000 -5.50000       -7.00000 -5.500000         52.85       -5.00000 -1.50000 -1.0000C + 5.0000C + 5.00000 -5.500000       -7.50000 -5.500000       -5.000000         52.85       -5.00000 -5.50000 -5.00000 -5.500000 -5.500000       -7.500000 -5.500000 -5.500000       -7.500000 -5.500000         52.20       -6.00000 -6.50000C -5.00000 -5.00000 -5.500000 -5.500000       -6.00000 -5.500000 -5.500000       -6.00000 -5.500000         52.20       -6.00000 -6.50000C -5.50000 -5.50000 -6.00000 -5.500000 -5.500000       -5.500000	55.05 54.90 54.75 54.60 54.45 54.30 54.15 54.00	32.70         33.70         34.70           -3.50000         -6.00000         -6.5000           -5.0000         -3.50000         -6.0000           -6.50000         -5.0000         -7.0000           -7.00000         -6.50000         -5.0000           -7.00000         -5.0000         -5.0000           -7.00000         -5.0000         -5.0000           -8.00000         -3.00000         -7.0000           -8.00000         -6.0000         -6.0000	35.70         36.70           C-6.5000C RF         5.0000           C F         -5.0000           C RF         -5.0000           C -5.5000C -5.0000         -6.5000C           C -6.5000C -7.00000         -6.00000           C -6.5000C -6.50000         -6.5000C	37.70         38.70           -5.0000(-4.500)         -5.000           -5.5000(-5.500)         -5.000           -5.5000(-5.500)         -6.500           -10.5         -5.000           -6.5000         -6.500           -7.0000         -6.500           -5.0000         -3.500	39.70 00-3.50000 00-5.00000 00-5.00000 00-5.00000 00-5.00000 00-5.00000 00-5.00000		25 -20 -15 -10 -5	0 50 10.0	20.0 3	0.0 m/s
53.55       5 000002       8 000002       7 500002       15 00000       8 00000         53.40       -6 000002       -11.5       -6 000002       7 500002       8 00000         53.10       -5 500002       1500001       100002       -5 500002       -5 500000         52.95       -5 500002       -7 500002       -6 000002       -5 500000         52.80       -5 500002       -7 500002       -6 000002       -5 500000         52.80       -5 500002       -7 500002       -6 000002       -5 500000         52.80       -5 500002       -5 500002       -6 000002       -5 500000         52.85       -5 500002       -5 500002       -6 000002       -5 500000         52.85       -5 500002       -6 500002       -6 000002       -5 500000         52.25       -5 500002       -6 500002       -6 000002       -5 500000         52.26       -5 500002       -6 000002       -5 500002       -5 500000         51.90       -6 000002       -5 500002       -5 00000       -5 500000       -5 500000         51.90       -6 000002       -5 500002       -5 000000       -5 500000       -5 000000         51.91       -5 500002       -5 000002       -5 000000	55.05 54.90 54.75 54.60 54.45 54.30 54.15 54.00 53.85	32,70         33,70         34,70           -3,50000         -6,00000         -6,5000           -5,00000         -3,50000         -6,0000           -6,50000         -6,0000         -5,0000           -7,00000         -6,50000         -7,0000           -7,00000         -6,50000         -7,0000           -7,00000         -5,0000         5,0000           -7,00000         -5,0000         -7,0000           -6,00000         -5,0000         -7,0000           -6,00000         -5,00000         -6,0000           -6,00000         -6,00000         -6,0000           -8,00000         0,00000         -6,0000	35.70 36.70 C-6.5000C RF C-5.5000C RF CRF 5.0000C CRF 5.0000C CRF 5.0000C CRF 5.0000C CRF 5.0000C C-7.0000C C-5.5000C C-7.0000C C-5.5000C	37.70 38.70 5.0000(4.500 6.5000(-5.500 5.5000(-6.500 10.5 5.500 6.0000(-6.500 7.0000(-4.500 5.0000(-5.500 5.0000(-5.500	39.70 00-3.50000 00-5.50000 00-5.50000 00-5.00000 00-5.00000 00-6.00000 00-6.00000	RF MD 2230	25 -20 -15 -10 5	0 50 10.0	20.0 3	0.0 m/s
53.40       -6 00000-12.5       -11.5       -6 00000-7.00000-6 00000-7.00000-6 50000         53.20       5.50000       -8.00000-7.50000-7.00000-6.00000-5.50000       -5.50000         53.10       -5.50000-1.10000-6.50000-7.00000-7.50000-5.50000       -5.50000       -5.50000         52.80       -5.50000-7.0000-7.00000-19.0       19.0       -7.50000-6.00000-5.50000       -5.50000         52.85       -5.00000-7.00000-6.50000-19.0       19.0       -7.50000-6.00000-5.50000       -5.00000         52.85       -5.00000-7.00000-6.500000-5.500000-5.500000-5.500000       -5.500000-5.50000-5.500000-5.500000       -7.00000-6.00000-5.500000         52.85       -5.00000-7.00000-6.500000-6.00000-5.500000-5.500000       -5.500000-5.500000-6.00000-5.500000       -5.500000-7.00000-6.00000-5.500000         52.23       -5.50000-7.00000-6.00000-5.500000-7.00000-7.00000-5.500000-5.500000       -5.50000-7.00000-6.00000-6.00000-7.00000-5.500000-6.00000-7.00000-6.00000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.50000-5.500000-5.500000-5.50000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.50000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.50000-5.500000-5.500000-5.50000	55.05 54.90 54.75 54.60 54.45 54.30 54.15 54.00 53.85 53.70	32.70         33.70         34.70           -3.50000         -6.00000         -6.50000           -5.00000         -3.50000         -6.00000           -6.50000         -5.00000         -5.00000           -7.00000         -6.50000         -5.00000           -7.00000         -6.50000         -5.0000           -7.00000         -6.50000         -5.0000           -7.00000         -5.50000         -5.0000           -8.00000         0.00000         -6.00000           -5.50000         5.00000         -6.00000           -6.00000         5.00000         -6.00000	35.70         36.70           C-6.5000C RF         500000           CF         500000           CRF         500000           C-7.0000C         500000           C-6.5000C         6.00000           C-6.5000C         6.00000           C-6.5000C         6.00000           C-6.5000C         6.00000           C-8.5000C         5.50000           C-8.5000C         5.50000	37.70         38.70           5.0000(4.500         6.5000           6.5000         5.000           5.5000         5.000           10.5         5.000           6.0000         6.500           10.5         5.000           6.0000         6.500           7.0000         4.000           5.0000         5.000           5.0000         5.500           5.0000         5.500	39.70 00-3.50000 00-5.50000 00-5.50000 00-5.00000 00-5.00000 00-5.00000 00-6.00000 00-6.00000 00-4.50000	RF MD 2450	25 -20 -15 -10 -5	0 5.0 10.0	20.0 3	0.0 m/s
53.25       -5.50000       -8.0000       -7.5000       -6.00000       -5.50000       -5.50000         53.10       -5.50000       -1.0000       -6.50000       -5.50000       -5.50000       -5.50000         52.95       -5.50000       -7.50000       -1.0000       -6.50000       -5.50000       -5.50000         52.80       -5.50000       -7.50000       -1.0000       -6.00000       -5.50000         52.80       -5.50000       -5.50000       -5.50000       -5.00000       -5.50000         52.80       -5.50000       -5.50000       -5.50000       -5.00000       -5.50000         52.85       -5.50000       -5.00000       -6.00000       -5.50000       -5.00000         52.05       -5.50000       -6.00000       -5.00000       -6.00000       -5.00000         52.05       -5.50000       -6.00000       -5.00000       -6.00000       -5.00000       -5.00000         52.05       -5.50000       -6.00000       -5.00000       -6.00000       -5.00000       -5.00000       -5.00000         51.90       -6.00000       -5.00000       -5.00000       -5.00000       -5.00000       -5.00000       -5.00000       -5.00000       -5.00000         51.60 <td< td=""><td>55.05 54.90 54.75 54.60 54.45 54.30 54.15 54.00 53.85 53.70 53.55</td><td>32.70         33.70         34.70           -3.50000         -6.00000         -6.5000           -5.00000         -3.50000         -6.0000           -6.50000         -5.0000         -5.0000           -7.00000         -6.50000         -5.0000           -7.00000         -6.00000         -5.0000           -7.00000         -5.00000         -5.0000           -8.00000         -0.00000         -6.00000           -8.00000         -0.00000         -6.00000           -5.00000         5.00000         -6.00000           -5.00000         -5.00000         -6.00000           -5.00000         -5.00000         -6.00000</td><td>35.70         36.70           C-6.5000C RF         50000C           CF         50000C           CRF         50000C           C-5.5000C         50000C           C-6.5000C         50000C           C-6.5000C         50000C           C-6.5000C         60000C           C-6.5000C         60000C           C-7.5000C         5.50000C           C-7.5000C         7.50000C</td><td>37.70         38.70           5.0000         4.500           6.5000         5.000           5.5000         6.500           5.5000         6.500           5.0000         6.500           10.5         5.000           6.0000         6.500           7.0000         6.500           5.0000         3.500           5.0000         5.000           5.0000         5.0000           5.0000         6.000</td><td>39.70 00-3.50000 00-5.0000 00-5.0000 00-5.0000 00-5.00000 00-5.00000 00-6.00000 00-6.00000 00-6.00000 00-4.50000</td><td>RF MD 2430</td><td>25 -20 -15 -10 -5</td><td>0 5.0 10.0</td><td>20.0 3</td><td>0.0 m/s</td></td<>	55.05 54.90 54.75 54.60 54.45 54.30 54.15 54.00 53.85 53.70 53.55	32.70         33.70         34.70           -3.50000         -6.00000         -6.5000           -5.00000         -3.50000         -6.0000           -6.50000         -5.0000         -5.0000           -7.00000         -6.50000         -5.0000           -7.00000         -6.00000         -5.0000           -7.00000         -5.00000         -5.0000           -8.00000         -0.00000         -6.00000           -8.00000         -0.00000         -6.00000           -5.00000         5.00000         -6.00000           -5.00000         -5.00000         -6.00000           -5.00000         -5.00000         -6.00000	35.70         36.70           C-6.5000C RF         50000C           CF         50000C           CRF         50000C           C-5.5000C         50000C           C-6.5000C         50000C           C-6.5000C         50000C           C-6.5000C         60000C           C-6.5000C         60000C           C-7.5000C         5.50000C           C-7.5000C         7.50000C	37.70         38.70           5.0000         4.500           6.5000         5.000           5.5000         6.500           5.5000         6.500           5.0000         6.500           10.5         5.000           6.0000         6.500           7.0000         6.500           5.0000         3.500           5.0000         5.000           5.0000         5.0000           5.0000         6.000	39.70 00-3.50000 00-5.0000 00-5.0000 00-5.0000 00-5.00000 00-5.00000 00-6.00000 00-6.00000 00-6.00000 00-4.50000	RF MD 2430	25 -20 -15 -10 -5	0 5.0 10.0	20.0 3	0.0 m/s
53.10       -5.50000       1.50000       -1.50000       -1.50000       -5.50000       -5.50000         52.80       -5.50000       -7.50000       -1.10       -6.00000       18.5       -7.50000       -5.50000         52.80       -5.50000       -5.50000       -1.0000       -6.00000       -5.50000         52.86       -6.00000       -5.50000       -6.00000       -5.50000       -6.00000       -5.50000         52.36       -5.50000       -6.50000       -6.00000       -5.50000       -6.00000       -5.50000         52.36       -5.50000       -6.50000       -6.00000       -5.50000       -5.50000       -5.50000         52.35       -5.50000       -6.00000       -6.00000       -5.50000       -5.50000       -5.50000         52.05       -5.50000       -6.00000       -7.00000       -5.50000       -5.50000       -5.50000         51.90       -6.00000       -5.50000       -7.00000       -5.50000       -5.50000       -5.50000         51.90       -6.00000       -5.50000       -6.00000       -5.50000       -5.50000       -5.50000         51.91       -5.50000       -6.00000       -5.50000       -6.00000       -5.50000       -5.50000       -5.50000	55.05 54.90 54.75 54.60 54.45 54.30 54.15 54.00 53.85 53.70 53.85 53.70 53.55 53.40	32.70         33.70         34.70           -3.50000         -6.00000         -6.5000           -5.00000         -3.50000         -6.0000           -6.50000         -6.0000         -7.0000           -7.00000         -6.50000         -7.0000           -7.00000         -6.0000         5.0000           -7.00000         -5.0000         -7.0000           -6.00000         -5.0000         -7.0000           -6.00000         -5.0000         -6.0000           -5.50000         -6.0000         -6.0000           -5.00000         -5.00000         -6.0000           -5.00000         -5.00000         -8.0000           -6.00000         -5.00000         -8.0000	35.70 36.70 C-6.5000C RF 5.0000C RF 5.0000C CRF 5.0000C CRF 5.0000C CRF 5.0000C 5.000C 5.00C 5.00C 5.00C 5.00C 5.00C 5.00C 5.00C 5.00C 5.00C 5.00C 5	37.70         38.70           5.0000         4.500           6.5000         5.500           5.5000         5.500           10.5         5000           6.0000         6.500           7.0000         4.000           5.0000         5.500           5.0000         4.000           5.0000         4.000           5.0000         4.000           5.0000         4.000           5.0000         4.000           5.0000         4.000           5.0000         4.000           5.0000         4.000           5.0000         4.000           5.0000         4.000	39.70 00-3.50000 00-5.50000 00-5.50000 00-5.00000 00-5.00000 00-5.00000 00-6.00000 00-6.00000 00-8.00000 00-8.50000	RF MD 200	25 -20 -15 -10 -5	0 5.0 10.0	20.0 3	0.0 m/s
52.95       5.00000 -7.00000 -11.0       -6.00000 -5.00000 -5.00000         52.86       -5.50000 -7.00000 -19.0       19.0       -7.50000 -5.50000         52.85       -5.00000 -7.00000 -19.0       19.0       -7.50000 -5.50000         52.85       -5.00000 -7.00000 -6.50000       -5.00000 -5.50000       -5.00000 -5.50000         52.85       -5.00000 -7.00000 -6.50000 -5.00000 -5.50000       -6.00000 -5.50000       -6.00000 -5.00000 -5.50000         52.20       -6.00000 -5.00000 -5.00000 -5.00000 -5.50000 -5.50000       -6.00000 -5.50000       -6.00000 -5.50000         52.20       -6.00000 -5.00000 -5.00000 -5.00000 -7.00000 -5.50000 -5.50000       -6.00000 -7.00000 -5.50000       -6.00000 -5.50000         52.20       -6.00000 -5.00000 -5.00000 -5.00000 -7.00000 -7.00000 -5.50000 -5.50000       -6.00000 -5.50000       -6.00000 -5.50000         52.20       -6.00000 -5.00000 -5.50000 -5.50000 -7.00000 -5.50000 -5.50000       -6.00000 -5.50000       -6.00000 -5.50000         51.90       -6.00000 -5.50000 -6.00000 -5.50000 -6.00000 -5.50000       -6.00000 -5.50000       -5.00000         51.45       -5.00000 -6.50000 -5.50000 -6.00000 -7.00000 -5.50000       -6.00000 -7.00000 -5.50000       -6.00000 -7.00000 -5.50000         51.00       -5.00000 -6.50000 -6.00000 -7.00000 -5.50000 -6.00000 -7.00000 -5.50000       -6.00000 -7.00000 -6.00000 -5.50000       -6.00000 -7.00000 -6.00000 -5.50000	55.05 54.90 54.75 54.60 54.45 54.30 54.15 54.00 53.85 53.70 53.55 53.40 53.25	32.70         33.70         34.70           -3.50000         -6.00000         -6.0000           -5.0000         -3.50000         -6.0000           -6.50000         -5.0000         -5.0000           -7.00000         -6.50000         -5.0000           -7.00000         -6.00000         -5.0000           -7.00000         -6.00000         -5.0000           -6.00000         -5.0000         -6.0000           -5.50000         -5.0000         -6.00000           -6.00000         -5.0000         -6.00000           -6.00000         -5.0000         -6.00000           -5.00000         -5.00000         -6.00000           -5.00000         -5.00000         -6.00000           -5.00000         -5.00000         -6.00000           -5.00000         -5.00000         -6.00000           -5.00000         -7.00000         -6.00000	35.70 36.70 C-6.5000C RF C-5.5000C RF CRF 500000 CRF 500000 C-7.0000C -7.00000 C-6.5000C -6.00000 C-7.0000C -5.50000 C-7.0000C -5.50000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -0.00000	37.70         38.70           5.0000         4.500           6.5000         5.000           5.5000         5.500           5.0000         6.500           5.0000         6.500           10.5         5.000           6.0000         6.500           7.0000         4.500           5.0000         5.500           5.0000         5.500           5.0000         4.500           5.0000         4.500           5.0000         4.500           6.0000         7.000           6.0000         7.000	39.70 00-3.50000 100-5.50000 00-5.50000 00-4.00000 00-5.00000 00-5.00000 00-6.00000 00-6.00000 00-6.50000 00-5.50000	RF MD 3430	25 -20 -15 -10 -5	0 5.0 10.0	20.0 3	0.0 m/s
52.80       -5.50000 -9.00000 -7.00000 19.0       19.0       -7.50000 -6.00000 -5.50000         52.86       -6.00000 -5.50000 -5.50000 -5.50000 -5.50000       -5.50000 -5.50000 -5.50000         52.85       -5.50000 -7.00000 -6.50000 -6.00000 -5.50000       -5.50000 -5.50000 -5.50000         52.35       -5.50000 -7.00000 -6.50000 -6.00000 -5.50000       -5.50000 -7.00000 -6.00000 -5.50000         52.40       -5.50000 -6.00000 -6.00000 -6.00000 -7.00000 -5.50000       -5.50000 -7.00000 -6.00000 -7.00000 -5.50000         52.05       -5.50000 -6.00000 -6.00000 -7.00000 -7.00000 -5.50000       -5.50000 -7.00000 -6.00000 -5.50000         51.75       -4.50000 -6.50000 -6.50000 -6.00000 -5.50000 -	55.05 54.90 54.75 54.60 54.45 54.45 54.00 54.15 54.00 53.85 53.70 53.55 53.25 53.25 53.10	32,70         33,70         34,70           3,50000         6,00000         6,0000           5,00000         3,50000         6,0000           6,50000         6,00000         5,0000           7,00000         6,00000         5,0000           7,00000         6,00000         5,0000           7,00000         6,00000         5,0000           7,00000         5,00000         7,0000           8,00000         30,0000         6,0000           5,50000         5,00000         6,0000           5,00000         5,00000         8,0000           6,00000         5,00000         8,0000           6,00000         1,15         5,50000           5,50000         1,0000         8,0000	35.70 36.70 C-6.5000C RF 5.0000C RF 5.0000C C RF 5.00000 C RF 5.00000 C 85.0000C -7.00000 C -5.5000C -6.00000 C -7.0000C -5.50000 C -7.5000C -5.50000 C -7.5000C -7.00000 C -7.5000C -7.00000 C -7.5000C -7.00000 C -7.5000C -7.00000	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	39.70 00-3.50000 00-5.50000 00-5.50000 00-5.00000 00-5.00000 00-5.00000 00-6.00000 00-4.50000 00-4.50000 00-6.50000 00-5.50000	RF MD 3430	25 -20 -15 -10 -5	0 5.0 10.0	20.0 3	0.0 m/s
52.65       -6.00000-5.50000       5.50000       -5.50000       -6.00000       -5.50000         52.85       -5.00001       -6.00000       -5.50000       -6.00000       -5.50000         52.85       -5.00001       -6.00000       -5.50000       -6.00000       -5.50000         52.20       -6.00000       -6.00000       -6.00000       -5.50000       -6.00000       -5.50000         52.20       -6.00000       -6.00000       -6.00000       -5.00000       -6.00000       -5.50000         51.90       -6.00000       -6.00000       -5.00000       -6.00000       -5.50000       -7.00000       -5.50000         51.90       -6.00000       -5.50000       -7.00000       -5.50000       -5.50000       -5.50000       -6.00000       -5.50000         51.75       -4.50000       -5.50000       -6.00000       -5.50000       -5.50000       -6.00000       -5.50000       -6.00000       -5.50000       -6.00000       -5.50000       -6.00000       -5.50000       -6.00000       -5.50000       -6.00000       -5.50000       -6.00000       -5.50000       -5.50000       -6.00000       -5.50000       -5.50000       -5.50000       -5.50000       -5.50000       -5.50000       -5.500000       -5.500000       -	55.05 54.90 54.75 54.60 54.45 54.30 54.15 54.00 53.85 53.70 53.55 53.40 53.25 53.20 52.95	32.70         33.70         34.70           -3.50000         -6.00000         -6.0000           -5.0000         -3.50000         -5.0000           -6.00000         -5.0000         -7.00000           -7.00000         -6.00000         -7.00000           -7.00000         -6.00000         -7.00000           -7.00000         -5.00000         -7.00000           -6.00000         -3.00000         -7.00000           -5.00000         -5.00000         -6.00000           -5.00000         -5.00000         -6.00000           -5.00000         -11.5         -5.50000           -5.00000         -15.0000         -10.0000           -5.50000         -15.0000         -10.0000	35.70 36.70 C-6.5000C RF C-5.5000C RF CF 5.00000 CF 5.00000 C-7.5000C -5.00000 C-7.5000C -6.00000 C-7.5000C -5.50000 C-7.5000C -5.50000 C-7.5000C -7.00000 C-7.5000C -7.5000C -7.00000 C-7.5000C	37.70         38.70           5.0000         4.500           6.5000         5.000           5.5000         6.500           6.5000         6.500           10.5         5000           6.0000         6.500           7.0000         4.1000           5.0000         4.1000           5.0000         4.1000           5.0000         4.1000           5.0000         4.1000           5.0000         4.1000           6.0000         7.000           6.0000         5.500           5.0000         5.000           6.0000         5.000           6.0000         5.000           5.5000         5.000           6.0000         5.000           7.0000         6.000	39.70 00-3.50000 00-5.50000 00-5.00000 00-5.00000 00-5.00000 00-6.00000 00-6.00000 00-6.50000 00-5.50000 00-5.50000	RF MD \$450	25 -20 -15 -10 -5	0 5.0 10.0	20.0 3	0.0 m/s
52.50 5.0000C 4.5000C 6.5000C 6.5000C 5.0000C 5.5000C 6.0000C 5.5000C	55.05 54.90 54.75 54.60 54.45 54.30 53.85 53.75 53.40 53.25 53.40 53.25 53.10 52.80	32.70         33.70         34.70           -3.50000         -6.00000         -6.0000           -5.0000         -3.50000         -6.0000           -6.50000         -5.0000         -5.0000           -7.00000         -6.0000         -5.0000           -7.00000         -6.0000         -5.0000           -7.00000         -6.0000         -5.0000           -6.00000         -5.0000         -6.0000           -5.0000         -5.0000         -6.0000           -5.0000         -5.0000         -6.0000           -5.0000         -10.000         -6.0000           -5.50000         -10.000         -10.000           -5.50000         -1.50000         -10.000           -5.50000         -1.50000         -1.0000           -5.50000         -7.50000         -1.0000	35.70 36.70 C-6.5000C RF C-5.5000C RF CRF 5.00000 CRF 5.00000 C-7.0000C -7.00000 C-6.5000C -6.00000 C-5.5000C -6.00000 C-7.0000C -5.50000 C-7.5000C -7.00000 C-7.5000C -7.0000 C-7.5000C -7.0000 C-7.500C -7.0000 C-7.500C -7.0000 C-7.500C -7.0000 C-7.500C -7.0000 C-7.500C -7.0000 C-7.5	37.70         38.70           5.0000         4.500           6.5000         5.000           5.0000         6.500           5.0000         6.500           5.0000         6.500           10.5         5.000           7.0000         3.500           5.0000         3.500           5.0000         3.500           5.0000         4.500           5.0000         4.500           6.0000         7.000           5.5000         4.500           6.0000         7.000           5.5000         6.000           7.0000         6.000           7.0000         5.500	39.70 00-3.50000 00-5.50000 00-5.00000 00-5.00000 00-5.00000 00-5.00000 00-6.00000 00-8.50000 00-5.50000 00-5.50000	RF MD 3430	25 -20 -15 -10 -5	0 5.0 10.0	20.0 3	0.0 m/s
52.35 -5.50000-7.0000-6.50000 -5.00000 -6.00000 -6.00000 -5.50000 -4.50000 -4.50000 -5.50000	55.05 54.90 54.75 54.65 54.30 54.15 54.30 53.85 53.70 53.55 53.40 53.25 53.10 53.25 53.10 52.95 52.65	32,70         33,70         34,70           -3,50000         -6,00000         -6,50000           -5,00000         -3,50000         -6,00000           -6,50000         -6,00000         -7,00000           -7,00000         -6,50000         -7,00000           -7,00000         -6,50000         -7,00000           -7,00000         -5,50000         -5,0000           -8,00000         30,0000         -7,00000           -8,00000         30,0000         -6,00000           -5,50000         5,00000         -6,00000           -5,50000         1,50000         -8,0000           -5,50000         1,50000         -11,5           -5,50000         -15,0000         -10,000           -5,50000         -5,50000         -5,50000           -5,50000         -5,50000         -5,50000           -5,50000         -5,50000         -1,0000	35.70 36.70 C-6.5000C RF 5.0000C RF 5.0000C CRF 5.0000C CRF 5.0000C CRF 5.0000C CRF 5.0000C 5.0000C CRF 5.000C CRF 5.00C CRF 5	37.70         38.70           5.0000         4.500           6.5000         5.500           5.5000         6.500           10.5         5000           6.0000         4.500           6.0000         6.500           7.0000         4.000           5.0000         6.500           5.0000         6.500           5.0000         6.000           5.0000         6.000           5.0000         6.000           5.0000         6.000           5.5000         4.500           6.0000         7.000           6.0000         6.000           7.0000         6.000           7.0000         6.000           7.0000         6.000           7.0000         6.000	39.70 00-3.50000 00-5.50000 00-5.50000 00-4.00000 00-5.00000 00-5.00000 00-6.00000 00-6.50000 00-6.50000 00-5.50000 00-5.50000	RF MD 430	25 -20 -15 -10 -5	0 5.0 10.0	20.0 3	0.0 m/s
52.20 -6 00000-6 50000 -5 00000 -5 00000 -5 00000 -1 4 0 -6 00000 -5 50000 52.05 -5 500000 -5 00000 -6 00000 -7 00000 -8 00000 -7 00000 -5 50000 51.90 -6 00000 -6 00000 -5 50000 -5 50000 -6 00000 -3 50000 51.75 -4 50000 -6 50000 -5 50000 -6 50000 -6 00000 -5 50000 -5 50000 51.45 -3 50000 -5 50000 -6 50000 -5 50000 -6 00000 -5 50000 -5 50000 51.15 -5 50000 -5 50000 -6 50000 -5 50000 -6 00000 -5 50000 -5 50000 51.15 -5 50000 -6 50000 -6 0000 -7 00000 -6 00000 -5 50000 51.15 -5 50000 -6 50000 -6 00000 -7 00000 -5 50000 -6 00000 -5 50000 51.15 -5 50000 -5 50000 -6 50000 -6 0000 -7 00000 -5 50000 -6 00000 -5 50000 50.85 -5 50000 -5 50000 -6 0000 -6 00000 -7 00000 -5 50000 -6 00000 -5 50000 50.85 -5 50000 -5 50000 -6 00000 -7 00000 -5 50000 -6 00000 -5 50000 50.70 -7 00000 -6 50000 -6 00000 -7 00000 -5 50000 -1 50000 -5 50000 50.70 -7 50000 -5 50000 -6 00000 -7 00000 -7 50000 -5 50000 -1 50000 -5 50000 -1 50000 -5 50000 -1 50000 -5 50000 -1 50000 -5 50000 -1 50000 -5 50000 -1 50000 -5 50000 -1 50000 -5 50000 -1 50000 -5 50000 -1 50000 -5 50000 -1 50000 -5 50000 -1 50000 -5 50000 -1 50000 -5 50000 -1 50000 -5 50000 -1 50000 -5 50000 -1 50000 -5 50000 -1 50000 -5 50000 -1 50000 -5 50000 -1 0000 -7 00000 -5 50000 -1 50000 -1 50000 -5 50000 -1 50000 -1 50000 -5 50000 -1 50000	55.05 54.90 54.75 54.60 54.45 54.30 54.15 54.00 53.85 53.70 53.25 53.40 53.25 53.10 52.95 52.80 52.80	32.70         33.70         34.70           -3.50000         -6.00000         -6.0000           500000         -3.50000         -5.0000           -6.00000         -5.0000         -7.00000           -7.00000         -6.00000         -5.0000           -7.00000         -5.0000         -7.00000           -6.00000         -5.0000         -7.00000           -6.00000         -5.0000         -7.00000           -6.00000         -5.0000         -7.00000           -6.00000         -5.00000         -6.00000           -5.500000         -5.00000         -6.00000           -5.500000         -1.0000         -1.0000           -5.00000         -5.00000         -1.0000           -5.00000         -7.00000         -7.00000           -5.00000         -7.00000         -8.0000           -5.00000         -7.00000         -8.0000           -5.00000         -7.00000         -8.0000           -5.00000         -7.00000         -8.0000           -5.00000         -7.00000         -7.00000           -5.00000         -7.00000         -5.0000           -5.00000         -7.00000         -5.00000           -5.00000 <td>35.70 36.70 C-6.5000C RF C-5.5000C RF CF 500000 CF 500000 C-7.0000C -5.00000 C-7.0000C -6.00000 C-7.0000C -6.00000 C-7.0000C -5.50000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-6.00000 18.5 C19.0 19.0 C19.0 19.0 C19.0 19.0 C19.0 19.0 C19.0 19.0 C19.0 19.0 C5.5000C C-5.5000C C-5.000C C-5.000C C-5.000C C-5.000C C-5.000C C-5.000C C-5.000C C-5.000C C-5.000C C-5.0000 C-5.0000 C-7.00000 C-7.0000 C-7.00000 C-7.00000 C</td> <td>37.70         38.70           5.0000         4.500           6.5000         5.000           5.0000         5.500           5.0000         5.500           6.5000         5.500           6.0000         6.500           7.0000         4.500           5.0000         5.500           5.0000         5.500           5.0000         5.500           5.0000         5.500           6.0000         7.000           6.0000         7.000           7.0000         6.000           7.0000         6.000           7.0000         6.000           7.0000         6.000           7.0000         6.000           7.0000         6.000           7.0000         6.000           7.0000         6.000           7.5000         6.000           7.5000         6.000</td> <td>39.70 00-3.50000 00-5.50000 00-5.00000 00-5.00000 00-5.00000 00-6.00000 00-6.00000 00-6.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000</td> <td>RF MD \$450</td> <td>25 -20 -15 -10 -5</td> <td>0 5.0 10.0</td> <td>20.0 3</td> <td>0.0 m/s</td>	35.70 36.70 C-6.5000C RF C-5.5000C RF CF 500000 CF 500000 C-7.0000C -5.00000 C-7.0000C -6.00000 C-7.0000C -6.00000 C-7.0000C -5.50000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-6.00000 18.5 C19.0 19.0 C19.0 19.0 C19.0 19.0 C19.0 19.0 C19.0 19.0 C19.0 19.0 C5.5000C C-5.5000C C-5.000C C-5.000C C-5.000C C-5.000C C-5.000C C-5.000C C-5.000C C-5.000C C-5.000C C-5.0000 C-5.0000 C-7.00000 C-7.0000 C-7.00000 C-7.00000 C	37.70         38.70           5.0000         4.500           6.5000         5.000           5.0000         5.500           5.0000         5.500           6.5000         5.500           6.0000         6.500           7.0000         4.500           5.0000         5.500           5.0000         5.500           5.0000         5.500           5.0000         5.500           6.0000         7.000           6.0000         7.000           7.0000         6.000           7.0000         6.000           7.0000         6.000           7.0000         6.000           7.0000         6.000           7.0000         6.000           7.0000         6.000           7.0000         6.000           7.5000         6.000           7.5000         6.000	39.70 00-3.50000 00-5.50000 00-5.00000 00-5.00000 00-5.00000 00-6.00000 00-6.00000 00-6.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000	RF MD \$450	25 -20 -15 -10 -5	0 5.0 10.0	20.0 3	0.0 m/s
52.05       -5.50000_5.00000_6.00000_7.00000_7.00000_4.50000         51.90       -6.00000_6.00000_6.00000_5.50000_7.00000_7.00000_5.50000         51.75       4.50000_6.50000_6.50000_6.50000_6.00000_5.50000         51.75       4.50000_6.00000_5.50000_6.50000_6.00000_5.50000         51.75       4.50000_6.00000_5.50000_6.50000_6.00000_5.50000         51.80       -6.00000_6.00000_5.50000_6.00000_5.50000         51.45       -3.50000_6.50000_6.50000_6.00000_7.00000_6.00000_5.50000         51.13       -5.50000_6.50000_6.00000_7.00000_6.00000_5.50000         51.10       -5.00000_6.50000_6.00000_7.00000_6.00000_6.500000         50.000_5.50000_6.50000_6.00000_7.00000_6.00000_6.000000_7.00000_6.00000_6.00000_6.00000_6.00000_6	55.05 54.90 54.75 54.60 54.45 54.30 54.15 54.00 53.85 53.70 53.55 53.40 53.25 53.10 52.95 52.65 52.65 52.65 52.35	32,70         33,70         34,70           3,50000         6,0000         6,0000           5,0000         3,50000         6,0000           6,50000         5,0000         7,0000           7,00000         6,0000         5,0000           7,00000         6,0000         5,0000           7,00000         6,0000         5,0000           7,00000         5,0000         6,0000           8,00000         3,0000         6,0000           5,0000         5,0000         6,0000           5,0000         5,0000         8,0000           6,00000         12,0000         8,0000           6,00000         12,0000         8,0000           5,00000         1,0000         8,0000           5,00000         1,50000         8,0000           5,00000         1,50000         1,0000           5,00000         7,50000         1,0000           5,00000         7,50000         1,0000           5,00000         7,0000         5,50000           5,00000         7,0000         5,50000           5,00000         7,0000         5,50000           5,00000         7,00000         5,50000	35.70 36.70 C-6.5000C RF C-5.5000C RF CRF 5.00000 CRF 5.00000 C-7.0000C -7.00000 C-6.5000C -6.00000 C-7.5000C -6.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-5.5000C -0.00000 C-5.5000C -0.00000 C-7.5000C -0.00000 C-5.5000C -0.00000	37.70         38.70           5.0000         4.500           6.5000         5.000           5.0000         6.500           5.0000         6.500           5.0000         6.500           10.5         5.000           7.0000         3.500           5.0000         3.500           5.0000         3.500           5.0000         4.500           5.0000         4.500           6.0000         7.000           5.5000         4.500           6.0000         -5.500           7.0000         -6.000           7.0000         -6.000           7.0000         -6.000           7.0000         -6.000           7.0000         -6.000           7.0000         -6.000           7.0000         -6.000           7.5000         -6.000           7.5000         -6.000           5.5000         -6.000           5.5000         -6.000           6.0000         -5.500	39.70 00-3.50000 00-5.50000 00-5.00000 00-5.00000 00-5.00000 00-5.00000 00-6.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000	RF MD 3430	25 -20 -15 -10 -5	0 5.0 10.0	20.0 3	0.0 m/s
51:90 -6.0000-6.0000-6.0000-5.5000-7.0000-7.0000-5.50000 51:75 -4.50000-6.5000-6.5000-5.5000-6.0000-5.50000-5.50000 51:60 -6.0000-5.50000-6.5000-6.50000-6.0000-5.50000-5.50000 51:15 -5.50000-6.5000-6.5000-6.50000-7.0000-6.00000-5.50000 51:15 -5.50000-6.5000-6.5000-6.00000-7.0000-6.00000-5.50000 51:15 -5.50000-6.5000-6.5000-6.00000-7.0000-6.00000-5.50000 51:00 -5.50000-6.5000-6.50000-6.00000-7.0000-6.00000-5.50000 50:70 -7.0000-6.50000-6.00000-7.00000-1.550000-6.00000-5.50000 50:55 -6.50000-5.50000-6.00000-7.00000-1.550000-4.500000 50:55 -6.50000-6.50000-6.00000-7.00000-1.550000-4.500000 50:55 -6.50000-6.50000-6.00000-7.00000-1.550000-4.500000 50:26 -5.50000-6.50000-6.50000-6.00000-7.00000-4.500000 50:20 -5.50000-6.50000-6.50000-7.00000-4.500000 50:20 -6.50000-6.50000-6.50000-7.00000-4.500000 50:20 -6.50000-6.50000-6.50000-7.00000-4.500000 50:20 -6.50000-6.50000-6.50000-7.00000-4.500000 50:20 -6.50000-6.50000-6.50000-7.00000-4.500000 50:20 -5.50000-6.50000-6.50000-7.00000-4.500000 50:20 -5.50000-6.50000-6.50000-7.00000-4.500000 50:20 -5.50000-6.50000-6.50000-7.00000-4.500000 50:20 -5.50000-6.50000-6.50000-7.00000-4.500000 50:20 -5.50000-6.50000-6.50000-7.00000-4.500000 50:000 -5.50000-6.50000-6.50000-7.00000-4.500000 50:000 -5.50000-6.50000-6.50000-7.00000-4.500000 50:000 -5.50000-6.50000-6.50000-7.00000-4.500000 50:000 -5.50000-6.50000-6.50000-7.00000-4.500000 50:000 -5.50000-6.50000-6.50000-7.00000-4.500000 50:000 -5.50000-6.50000-6.50000-7.00000-4.500000 50:000 -5.50000-6.50000-6.00000-7.00000-4.500000 50:000 -5.50000-6.50000-6.00000-7.00000-4.500000 50:000 -5.50000-6.50000-6.00000-7.00000-4.500000 50:000 -5.50000-6.50000-6.00000-7.00000-4.500000 50:000 -5.50000-6.50000-6.00000-7.00000-4.500000-4.500000 50:000 -5.50000-6.0000-8.50000-7.00000-4.500000-4.500000-4.50000-4.50000-4.50000-4.50000-4.50000-4.50000-4.50000-6.0000-4.50000-4.50000-4.50000-4.50000-4.50000-6.0000-6.0000-6.0000-6.50000-7.0000-4.50000-6.0000-6.0000-6.0000-6.0000-6.0000-6.0000-6.0000-6.0000-6.0000-6.0000-6.00	55.05 54.90 54.75 54.60 54.45 54.45 54.45 54.00 53.85 53.40 53.55 53.40 53.55 53.40 53.25 53.20 52.95 52.86 52.50 52.50 52.20	32.70         33.70         34.70           3.50000         -6.00000         -6.5000           5.00000         -3.50000         -6.0000           -6.50000         -6.00000         -5.0000           -7.00000         -6.50000         -7.00000           -7.00000         -6.00000         5.0000           -7.00000         -6.00000         5.0000           -7.00000         -6.00000         -6.0000           -8.00000         30.0000         -6.00000           -5.00000         5.00000         -6.00000           -5.00000         -5.00000         -11.5           -5.500000         -15.00000         -11.0           -5.500000         -7.00000         -5.00000           -5.00000         -7.00000         -5.00000           -5.00000         -7.00000         -5.0000           -5.00000         -7.00000         -5.0000           -5.00000         -7.00000         -5.0000           -5.00000         -7.00000         -5.0000           -5.00000         -7.00000         -5.0000           -5.00000         -7.00000         -5.0000           -5.00000         -7.00000         -5.00000           -5.00000	35.70 36.70 C-6.5000C RF 5.0000C RF 5.0000C CRF 5.0000C CRF 5.0000C C-7.0000C -7.00000 C-7.0000C -7.00000 C-7.55000C -6.50000 C-7.55000C -7.00000 C-7.55000C -7.00000 C-7.55000C -7.00000 C-7.55000C -7.00000 C-7.5000C -7.00000 C-7.5000C -6.00000 C-7.5000C -6.00000 C-5.5000C -6.00000 C-5.5000C -6.00000 C-5.5000C -6.00000 C-5.5000C -6.00000 C-5.5000C -6.00000 C-5.0000C -5.00000 C-5.0000C -5.00000 C-5.000C -5.0000 C-5.000C -5.0000 C-5.000C -5.0000 C-7.0000C -6.0000 C-7.0000 C-7.000C -6.0000 C-7.00000 C-7.00000 C-7.00000 C-7.0000 C-7	37.70         38.70           5.0000         4.500           6.5000         5.500           5.5000         6.500           10.5         5000           6.0000         4.000           6.0000         4.000           5.0000         6.500           7.0000         4.000           5.0000         4.000           5.0000         4.000           5.0000         6.000           5.0000         6.000           5.5000         6.000           5.5000         6.000           7.0000         6.000           7.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000	39.70 00-3.50000 00-5.50000 00-5.50000 00-5.00000 00-5.00000 00-5.00000 00-6.00000 00-6.00000 00-6.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000	RF MD \$250	25 -20 -15 -10 -5	0 5.0 10.0	20.0 3	0.0 m/s
51.75 4 50000 - 6 50000 - 6 50000 - 5 50000 - 6 50000 - 6 00000 - 3 500000 51.75 3 60000 - 6 50000 - 6 50000 - 6 50000 - 6 00000 - 5 500000 51.30 5 50000 - 5 50000 - 6 50000 - 5 50000 - 6 00000 - 5 500000 51.31 5 500000 - 5 50000 - 6 50000 - 1 00000 - 0 00000 - 6 000000 - 5 500000 51.15 - 5 00000 - 6 50000 - 6 00000 - 1 00000 - 0 00000 - 6 000000 - 6 000000 - 5 500000 51.15 - 5 00000 - 6 50000 - 6 00000 - 1 00000 - 0 00000 - 6 000000 - 5 500000 51.00 - 5 00000 - 6 50000 - 6 00000 - 7 00000 - 6 000000 - 6 000000 - 6 000000 - 5 500000 50.76 - 7 00000 - 6 50000 - 6 00000 - 7 00000 - 5 500000 - 5 500000 - 5 500000 - 5 500000 - 5 500000 - 5 500000 - 5 500000 - 5 500000 - 5 500000 - 6 00000 - 5 500000 - 6 00000 - 5 500000 - 5 500000 - 5 500000 - 5 500000 - 6 00000 - 5 500000 - 5 500000 - 5 500000 - 5 500000 - 5 500000 - 5 500000 - 5 500000 - 5 500000 - 5 500000 - 5 500000 - 5 500000 - 5 50000 - 5 50000 - 5 50000 - 5 50000 - 5 50000 -	55.05 54.90 54.75 54.60 54.45 54.30 53.45 53.70 53.85 53.70 53.25 53.10 52.80 52.80 52.85 52.20 52.20	32.70         33.70         34.70           -3.50000         -6.00000         -6.0000           -5.0000         -3.50000         -5.0000           -6.00000         -5.0000         -7.00000           -7.00000         -6.00000         -7.00000           -7.00000         -5.0000         -7.00000           -7.00000         -5.0000         -7.00000           -6.00000         -5.0000         -7.00000           -6.00000         -5.0000         -7.00000           -6.00000         -5.0000         -6.00000           -5.50000         -5.00000         -6.00000           -5.50000         -15.0000         -10.0000           -5.50000         -15.0000         -10.0000           -5.50000         -15.0000         -10.0000           -5.50000         -15.0000         -5.0000           -5.50000         -5.50000         -5.0000           -5.00000         -7.00000         -6.0000           -5.00000         -7.00000         -6.0000           -5.00000         -1.0000         -5.0000           -5.00000         -5.00000         -5.0000           -5.00000         -5.00000         -5.00000           -5.00000 <td>35.70 36.70 C-6.5000C RF C-5.5000C RF CF 500000 CF 500000 C-7.00000 - 7.00000 C-6.5000C - 6.00000 C-7.0000C - 5.50000 C-7.5000C - 5.50000 C-7.5000C - 7.00000 -6.0000C - 7.00000 C-7.5000C - 6.00000 C-7.5000C - 6.00000 C-7.5000C - 6.00000 C-7.5000C - 6.00000 C-7.5000C - 6.00000 C-5.50000C - 6.00000 C-5.50000C - 6.00000 C-5.50000C - 6.00000 C-5.50000C - 6.00000 C-5.50000C - 6.00000 C-5.50000C - 6.00000 C-5.0000C - 7.00000 C-5.0000C - 7.000000 C-5.0000C - 7.0000000 C-5.0000C - 7.00000 C-5.0000C - 7.000000 C-5.0000C - 7.000000 C-5.0000C - 7.00000 C-5.0000C - 7.0000 C-5.0000C - 7.00000 C-5.0000C - 7.000000 C-5.0000C - 7.000000</td> <td>37.70         38.70           5.0000         4.500           6.5000         5.500           5.0000         5.500           5.0000         6.500           5.0000         6.500           6.0000         6.500           6.0000         6.500           7.0000         3.500           5.0000         5.500           5.0000         5.500           6.0000         5.500           6.0000         5.500           7.0000         6.000           7.0000         6.000           7.0000         6.000           7.0000         6.000           7.0000         6.000           7.0000         6.000           7.0000         6.000           7.0000         6.000           7.0000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           6.0000         5.000           6.0000         5.000</td> <td>39.70 00-3.50000 00-5.50000 00-5.00000 00-3.00000 00-3.00000 00-5.00000 00-6.00000 00-6.50000 00-5.500000 00-5.50000 00-5.500000 00-5.500000 00-5.500000000 00-5.500000 00-5.500000 00</td> <td>RF MD \$450</td> <td>25 -20 -15 -10 -5</td> <td>0 5.0 10.0</td> <td>20.0 3</td> <td>0.0 m/s</td>	35.70 36.70 C-6.5000C RF C-5.5000C RF CF 500000 CF 500000 C-7.00000 - 7.00000 C-6.5000C - 6.00000 C-7.0000C - 5.50000 C-7.5000C - 5.50000 C-7.5000C - 7.00000 -6.0000C - 7.00000 C-7.5000C - 6.00000 C-7.5000C - 6.00000 C-7.5000C - 6.00000 C-7.5000C - 6.00000 C-7.5000C - 6.00000 C-5.50000C - 6.00000 C-5.50000C - 6.00000 C-5.50000C - 6.00000 C-5.50000C - 6.00000 C-5.50000C - 6.00000 C-5.50000C - 6.00000 C-5.0000C - 7.00000 C-5.0000C - 7.000000 C-5.0000C - 7.0000000 C-5.0000C - 7.00000 C-5.0000C - 7.000000 C-5.0000C - 7.000000 C-5.0000C - 7.00000 C-5.0000C - 7.0000 C-5.0000C - 7.00000 C-5.0000C - 7.000000 C-5.0000C - 7.000000	37.70         38.70           5.0000         4.500           6.5000         5.500           5.0000         5.500           5.0000         6.500           5.0000         6.500           6.0000         6.500           6.0000         6.500           7.0000         3.500           5.0000         5.500           5.0000         5.500           6.0000         5.500           6.0000         5.500           7.0000         6.000           7.0000         6.000           7.0000         6.000           7.0000         6.000           7.0000         6.000           7.0000         6.000           7.0000         6.000           7.0000         6.000           7.0000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           6.0000         5.000           6.0000         5.000	39.70 00-3.50000 00-5.50000 00-5.00000 00-3.00000 00-3.00000 00-5.00000 00-6.00000 00-6.50000 00-5.500000 00-5.50000 00-5.500000 00-5.500000 00-5.500000000 00-5.500000 00-5.500000 00	RF MD \$450	25 -20 -15 -10 -5	0 5.0 10.0	20.0 3	0.0 m/s
51:60       -6:00001-6:00001-6:500001-6:00000-6:00000-5:500001-5:50000-5:50000         51:40       -5:00001-3:00001-2:50001-6:00000-6:00000-5:500000-5:500000-5:00000         51:30       -5:500001-3:00001-2:500001-6:500000-6:00000-5:500000-5:500000-5:00000         51:13       -5:500001-5:500001-6:500001-6:000000-6:000000-5:500000-5:500000-5:500000-5:500000-5:500000-6:000000-7:000000-6:500000-5:500000-6:500000-7:000000-6:500000-5:500000-6:500000-7:000000-6:500000-5:500000-5:500000-7:000000-6:500000-5:500000-5:500000-5:500000-7:000000-6:000000-7:000000-6:500000-5:500000-5:500000-5:500000-5:500000-5:500000-5:500000-5:500000-5:500000-5:500000-7:000000-5:500000-7:000000-6:00000-7:000000-5:5000000-5:500000-5:500000-5:500000-5:500000-5:500000-5:50	55.05 54.90 54.75 54.60 54.45 54.30 53.75 53.75 53.75 53.75 53.40 53.55 53.40 53.55 53.40 53.55 53.10 52.85 52.85 52.20 52.05 52.05	32,70         33,70         34,70           3,50000         6,00000         6,0000           5,0000         3,50000         6,0000           6,50000         6,00000         5,0000           7,00000         6,00000         5,0000           7,00000         6,00000         5,0000           7,00000         6,00000         5,0000           7,00000         5,00000         7,0000           8,00000         3,00000         6,0000           5,50000         5,00000         6,0000           5,00000         5,00000         6,0000           5,00000         5,00000         1,0000           5,50000         15,0000         8,0000           5,50000         15,0000         8,0000           5,50000         15,0000         1,0000           5,50000         5,50000         5,50000           5,50000         5,50000         5,50000           5,50000         7,00000         6,50000           5,50000         7,00000         6,50000           5,50000         7,00000         6,00000           5,50000         5,50000         5,50000           5,50000         5,50000         6,00000 <td>35.70 36.70 C-6.5000C RF 5.0000C RF 5.0000C CRF 5.0000C CRF 5.0000C CRF 5.0000C CRF 5.0000C 5.0000C CRF CRF CRF CRF CRF CRF CRF CR</td> <td>37.70         38.70           5.0000         4.500           6.5000         5.0000           5.5000         6.500           5.0000         6.500           5.0000         6.500           5.0000         6.500           5.0000         5.000           6.0000         4.500           5.0000         4.000           5.0000         4.000           5.0000         4.000           5.0000         6.000           5.5000         4.000           7.0000         6.000           7.5000         6.000           7.5000         6.000           7.5000         6.000           7.5000         6.000           7.5000         6.000           5.5000         5.500           4.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           7.000         6.000           7.000         6.000</td> <td>39.70 00-3.50000 00-5.50000 00-5.50000 00-5.00000 00-5.00000 00-5.00000 00-5.00000 00-6.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000</td> <td>RF MD \$450</td> <td>25 -20 -15 -10 5</td> <td></td> <td>20.0 3</td> <td>0.0 m/s</td>	35.70 36.70 C-6.5000C RF 5.0000C RF 5.0000C CRF 5.0000C CRF 5.0000C CRF 5.0000C CRF 5.0000C 5.0000C CRF CRF CRF CRF CRF CRF CRF CR	37.70         38.70           5.0000         4.500           6.5000         5.0000           5.5000         6.500           5.0000         6.500           5.0000         6.500           5.0000         6.500           5.0000         5.000           6.0000         4.500           5.0000         4.000           5.0000         4.000           5.0000         4.000           5.0000         6.000           5.5000         4.000           7.0000         6.000           7.5000         6.000           7.5000         6.000           7.5000         6.000           7.5000         6.000           7.5000         6.000           5.5000         5.500           4.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           7.000         6.000           7.000         6.000	39.70 00-3.50000 00-5.50000 00-5.50000 00-5.00000 00-5.00000 00-5.00000 00-5.00000 00-6.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000 00-5.50000	RF MD \$450	25 -20 -15 -10 5		20.0 3	0.0 m/s
5145 550000 500000 500000 500000 500000 500000 500000 500000 500000 500000 500000 5115 550000 550000 6500000 6500000 650000 650000 650000 6500000 6500000 6500000 6500000 6500000 6500000 6500000 6500000 6500000 6500000 6500000 6500000 6500000 65000000 6500000 6500000 6500000 65000000 65000000 65000000 6500000000	55.05 54.90 54.75 54.60 54.45 54.00 54.15 53.00 53.55 53.70 53.25 53.10 52.95 52.80 52.25 52.25 52.25 52.25 52.25 52.20 52.25 51.76	32.70         33.70         34.70           3.50000         -6.00000         -6.5000           5.00000         -3.50000         -6.0000           -6.50000         -6.00000         -5.0000           -7.00000         -6.50000         -7.00000           -7.00000         -6.00000         -7.00000           -6.00000         -5.0000         -7.00000           -6.00000         -5.0000         -7.00000           -6.00000         -5.00000         -6.0000           -5.50000         -7.00000         -6.0000           -6.00000         -5.00000         -8.0000           -5.00000         -5.00000         -8.0000           -5.50000         -1.0000         -5.00000           -5.50000         -7.00000         -5.00000           -5.50000         -7.00000         -5.0000           -5.50000         -7.00000         -5.0000           -5.50000         -7.00000         -5.0000           -5.50000         -7.00000         -5.0000           -5.50000         -7.00000         -5.0000           -5.50000         -7.00000         -5.0000           -5.50000         -7.00000         -5.00000           -5.50000	35.70 36.70 C-6.5000C RF C-5.5000C RF CF 5.00000 CF 5.00000 C-6.5000C -5.00000 C-7.0000C -7.00000 C-7.5000C -6.50000 C-7.5000C -5.50000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -6.00000 C-5.50000 -6.00000 C-5.50000 -5.00000 C-5.50000 -5.50000 C-5.50000 -5.50000 C-5.50000 -5.50000 C-5.50000 -5.500000 C-5.50000 -5.500000 C-5.50000 -5.500000 C-5.50000 -5.500000 C-5.50000 -5.5000000000 C-5.500000 -5.500000000000000000000000000	37.70         38.70           5.0000         4.500           6.50000         5.500           5.0000         5.500           5.0000         6.500           6.0000         6.500           6.0000         5.000           6.0000         5.000           6.0000         5.000           5.0000         4.000           5.0000         4.000           5.0000         6.000           5.0000         6.000           5.0000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           6.0000         5.500           6.0000         5.500           6.0000         5.500           6.0000         5.500 <td>39.70 00-3.50000 00-5.00000 00-5.00000 00-5.00000 00-5.00000 00-5.00000 00-6.00000 00-6.50000 00-5.500000 00-5.50000 00-5.50000 00-5.50000 00-5.500000 00-5.500000 00-5.500000 00-5.500000000 00-5.5000000000000000000000000000000000</td> <td></td> <td>25 -20 -15 -10 -5</td> <td></td> <td>20.0 3</td> <td>0.0 m/s</td>	39.70 00-3.50000 00-5.00000 00-5.00000 00-5.00000 00-5.00000 00-5.00000 00-6.00000 00-6.50000 00-5.500000 00-5.50000 00-5.50000 00-5.50000 00-5.500000 00-5.500000 00-5.500000 00-5.500000000 00-5.5000000000000000000000000000000000		25 -20 -15 -10 -5		20.0 3	0.0 m/s
51.30 5 50000 5 50000 6 50000 5 50000 - 5 50000 - 5 50000 - 5 50000 - 6 00000 - 5 5000	55.05 54.90 54.75 54.60 54.45 54.30 54.45 53.45 53.70 53.55 53.40 53.55 53.40 53.25 53.40 52.95 52.20 52.65 52.20 52.20 52.20 52.05 52.20 52.05 52.20 52.51 52.20 52.51 52.55 52.51 52.55 52.51 52.555	32,70         33,70         34,70           3,50000         6,0000         6,0000           5,0000         3,50000         6,0000           6,50000         6,0000         5,0000           7,00000         6,0000         5,0000           7,00000         6,0000         5,0000           7,00000         5,0000         5,0000           7,00000         5,0000         5,0000           6,00000         3,0000         6,0000           8,00000         0,0000         6,0000           5,00000         5,0000         6,0000           5,00000         5,0000         8,0000           6,00000         12,5000         8,0000           5,00000         1,50000         8,0000           5,00000         1,50000         8,0000           5,00000         1,50000         1,0000           5,00000         7,0000         1,0000           5,00000         7,0000         1,0000           5,00000         7,0000         6,00000           5,00000         7,0000         6,00000           5,00000         7,0000         6,00000           5,00000         7,0000         6,00000	35.70 36.70 C-6.5000C RF C-5.5000C RF CF 500000 CF 500000 C-7.00000 C-7.00000 C-7.00000 C-7.00000 C-7.00000 C-7.00	37.70         38.70           5.0000         4.500           6.5000         5.000           5.5000         5.500           5.0000         5.500           5.0000         5.500           5.0000         5.500           6.500         5.500           6.0000         6.500           7.0000         3.500           5.0000         5.500           5.0000         5.500           6.0000         5.500           6.0000         6.000           7.0000         6.000           7.0000         6.000           5.5000         6.000           7.0000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           8.0000         6.000           7.0000         5.000           8.0000         6.000           7.0000         5.500           6.0000         7.000	39.70 00-3.50000 00-5.50000 00-5.00000 00-5.00000 00-5.00000 00-6.00000 00-6.00000 00-6.50000 00-5.500000 00-5.500000 00-5.500000 00-5.500000000 00-5.500000 00-		25 -20 -15 -10 -5		20.0 3	0.0 m/s
51.15       5.00001 - 5.0000 - 6.0000 - 1.000001 - 0.00000 - 5.00000         51.00       5.00001 - 5.0000 - 6.00000 - 1.000000 - 0.00000 - 5.00000         50.70       7.00000 - 6.00000 - 6.00000 - 7.00000 - 6.00000 - 5.50000         50.70       7.00000 - 6.00000 - 6.00000 - 7.00000 - 6.00000 - 5.50000         50.70       7.00000 - 6.00000 - 6.00000 - 7.00000 - 6.00000 - 5.50000         50.70       7.00000 - 6.00000 - 6.00000 - 7.00000 - 1.50000         50.55       -6.50000 - 6.00000 - 7.00000 - 1.50000         50.40       -5.50000 - 6.50000 - 6.00000 - 7.00000 - 4.50000         50.26       -5.00000 - 6.50000 - 6.00000 - 7.00000 - 4.50000         50.10       2.50000 - 6.50000 - 7.00000 - 7.00000 - 4.50000         50.26       -5.00000 - 5.50000 - 6.00000 - 7.00000 - 4.50000         50.10       2.50000 - 5.50000 - 6.00000 - 7.00000 - 4.50000 - 4.50000         50.10       2.50000 - 5.500	55.05 54.90 54.75 54.60 54.45 54.30 54.15 53.00 53.55 53.70 53.55 53.70 53.55 53.40 53.25 53.25 52.25 52.20 52.25 52.20 52.25 52.20 52.35 52.25 51.95 51.45 51.45	32,70         33,70         34,70           3,50000         -6,00000         -6,0000           5,00000         -8,00000         -6,0000           -6,50000         -6,00000         -5,0000           -7,00000         -6,00000         -5,0000           -7,00000         -6,00000         -7,00000           -7,00000         -5,0000         -7,00000           -8,00000         -3,00000         -7,00000           -8,00000         -0,0000         -5,0000           -8,00000         -5,0000         -6,0000           -5,00000         -5,0000         -8,0000           -5,00000         -10,000         -5,0000           -5,50000         -11,0         -5,50000           -5,50000         -10,000         -5,50000           -5,50000         -5,50000         -5,50000           -5,50000         -7,00000         -6,00000           -5,50000         -7,00000         -6,00000           -5,50000         -7,00000         -6,00000           -5,50000         -7,00000         -6,00000           -5,50000         -5,00000         -6,00000           -5,50000         -5,00000         -6,00000           -5,00000	35.70 36.70 C-6.5000C RF 5.0000C RF 5.0000C CRF 5.0000C CRF 5.0000C CRF 5.0000C CRF 5.0000C 5.0000C CRF 5.0000C CRF 5.0000C CRF 5.0000C CRF 5.0000C CRF 5.0000C CRF 5.0000C CRF 5.0000C CRF 5.0000C CRF 5.0000C CRF 5.0000C CRF 5.0000C CRF 5.0000C CRF 5.0000C CRF 5.0000C CRF CRF CRF CRF CRF CRF CRF CR	37.70         38.70           5.0000         4.500           6.5000         5.500           5.5000         6.500           10.5         5000           6.0000         4.500           6.0000         6.500           7.0000         4.000           5.0000         4.000           5.0000         4.000           5.0000         4.000           5.0000         4.000           5.0000         4.000           5.0000         6.000           5.5000         4.500           6.0000         7.000           6.0000         6.000           7.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           7.0000         7.000           6.0000         6.000           7.0000         7.000           6.0000         5.000           6.0000         5.000	39.70 00.3.50000 00.5.50000 00.5.50000 00.5.00000 00.5.00000 00.5.00000 00.5.00000 00.6.00000 00.6.50000 00.5.500000 00.5.500000 00.5.500000 00.5.500000 00.5.500000000 00.	RF MD \$630	25 -20 -15 -10 5		20.0 3	0.0 m/s
51.00 50000 50000 60000 - 000000	55.05 54.75 54.60 54.45 54.00 53.45 53.70 53.55 53.40 53.25 53.10 52.95 52.80 52.25 52.20 52.25 52.20 52.25 51.90 51.75 51.60 51.45 51.45	32.70         33.70         34.70           3.50000         -6.00000         -6.0000           5.00000         -8.0000         5.0000           -7.00000         -6.00000         -7.0000           -7.00000         -6.00000         -7.00000           -7.00000         -6.00000         -7.00000           -7.00000         -6.00000         -7.00000           -7.00000         -6.00000         -7.00000           -6.00000         3.00000         -7.00000           -5.00000         3.00000         -7.00000           -5.00000         3.00000         -6.00000           -5.00000         -1.0000         -6.00000           -5.00000         -1.0000         -8.0000           -5.00000         -1.0000         -5.0000           -5.00000         -1.0000         -5.0000           -5.00000         -7.00000         -6.0000           -5.00000         -7.00000         -6.00000           -5.00000         -7.00000         -6.00000           -5.00000         -7.00000         -6.00000           -5.00000         -7.00000         -6.00000           -5.00000         -7.00000         -6.00000           -5.00000	35.70 36.70 C-6.5000C RF C-5.5000C RF CF 5.00000 CF 5.00000 C-6.5000C -5.00000 C-7.0000C -5.00000 C-7.0000C -5.50000 C-7.5000C -5.50000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-5.5000C -5.50000 C-5.5000C -5.50000 C-5.5000C -5.50000 C-5.5000C -5.50000 C-5.5000C -5.50000 C-5.5000C -5.50000 C-5.5000C -5.50000 C-5.5000C -5.50000 C-5.5000C -5.50000 C-5.50000 -5.500000 C-5.50000 -5.50000	37.70         38.70           5.0000         4.500           6.5000         5.500           5.0000         5.500           5.0000         6.500           6.5000         5.500           6.0000         6.500           6.0000         6.500           7.0000         3.500           5.0000         4.500           5.0000         4.500           5.0000         4.500           5.0000         4.500           6.0000         5.500           6.0000         5.500           7.0000         6.000           7.5000         6.000           7.5000         6.000           7.5000         6.000           7.5000         6.000           7.5000         6.000           7.5000         6.000           6.0000         5.500           6.0000         5.500           8.0000         6.000           8.0000         6.000           6.0000         5.500           6.0000         5.500           6.0000         5.500           6.0000         5.500           6.0000         5.500	39.70 00-3.50000 00-5.50000 00-5.00000 00-5.00000 00-5.00000 00-6.00000 00-6.00000 00-6.50000 00-5.500000 00-5.500000 00-5.500000 00-5.5000000 00-5.500000 00-5.	RF MD \$450	25 -20 -15 -10 -5	0 5.0 10.0	20.0 3	0.0 m/s
51.000         -5.0000         -5.0000         -5.0000         -5.0000         -5.0000           50.85         -5.0000         -5.0000         -6.0000         -6.0000         -5.0000           50.70         -7.0000         -6.0000         -6.0000         -5.0000         -5.0000           50.55         -6.50000         -5.0000         -6.50000         -1.50000         -5.0000           50.40         -5.50000         -6.00000         -6.50000         -4.50000         -5.0000           50.25         -5.00000         -5.0000         -6.00000         -4.50000         -4.50000           50.10         -2.50000         -5.0000         -5.00000         -5.0000         -5.0000         -4.50000           50.10         -2.50000         -5.0000         -5.0000         -5.0000         -5.0000         -4.50000           50.10         -2.50000         -5.0000         -5.0000         -5.0000         -5.0000         -5.0000           50.10         -2.50000         -5.0000         -5.0000         -5.0000         -5.0000         -5.0000           50.10         -2.50000         -5.0000         -5.0000         -5.0000         -5.0000         -5.0000         -5.0000           50.10	55.05 54.90 54.75 54.60 54.45 54.30 54.45 53.85 53.70 53.85 53.70 53.85 53.70 53.29 53.20 52.85 52.86 52.20 52.20 52.20 52.20 51.75 51.60 51.45 51.55 51.55 51.555	32,70         33,70         34,70           3,50000         6,00000         6,0000           5,00000         3,50000         6,0000           6,50000         6,00000         5,0000           7,00000         6,50000         7,0000           7,00000         6,00000         5,0000           7,00000         6,00000         5,0000           7,00000         5,0000         6,0000           8,00000         30,0000         6,0000           8,00000         30,0000         6,0000           5,50000         5,00000         6,0000           5,00000         5,00000         6,0000           5,50000         5,00000         11,0           5,50000         5,50000         5,50000           5,50000         7,00000         6,00000           5,50000         7,00000         5,50000           5,50000         7,00000         5,50000           5,50000         7,00000         5,50000           5,50000         5,50000         6,00000           5,50000         6,00000         6,00000           5,50000         6,00000         6,00000           5,50000         6,00000         5,0000 <td>35.70 36.70 C-6.5000C RF 5.0000C RF 5.0000C CRF 5.0000C CRF 5.0000C CRF 5.0000C CRF 5.0000C 5.0000C CRF CRF CRF CRF CRF CRF CRF CR</td> <td>37.70         38.70           5.0000         4.500           6.5000         5.000           5.5000         6.500           5.0000         6.500           10.5         5000           5.0000         6.500           5.0000         6.500           5.0000         3.500           5.0000         3.500           5.0000         6.0000           5.0000         6.000           5.0000         6.000           5.5000         4.500           6.0000         7.000           6.0000         6.000           7.5000         6.000           7.5000         6.000           5.5000         6.000           6.0000         5.500           6.0000         5.500           7.5000         6.000           6.0000         5.500           7.0000         6.000           8.0000         6.000           6.0000         5.500           6.0000         5.500           6.0000         5.500           6.0000         5.500           6.0000         5.500           6.0000         5.500</td> <td>39.70 00-3.50000 00-5.50000 00-5.50000 00-5.00000 00-5.00000 00-5.00000 00-6.00000 00-6.50000 00-5.500000 00-5.500000 00-5.500000 00-5.500000000 00-5.500000 000</td> <td></td> <td>25 -20 -15 -10 -5</td> <td>0 50 10.0</td> <td>20.0 3</td> <td>0.0 m/s</td>	35.70 36.70 C-6.5000C RF 5.0000C RF 5.0000C CRF 5.0000C CRF 5.0000C CRF 5.0000C CRF 5.0000C 5.0000C CRF CRF CRF CRF CRF CRF CRF CR	37.70         38.70           5.0000         4.500           6.5000         5.000           5.5000         6.500           5.0000         6.500           10.5         5000           5.0000         6.500           5.0000         6.500           5.0000         3.500           5.0000         3.500           5.0000         6.0000           5.0000         6.000           5.0000         6.000           5.5000         4.500           6.0000         7.000           6.0000         6.000           7.5000         6.000           7.5000         6.000           5.5000         6.000           6.0000         5.500           6.0000         5.500           7.5000         6.000           6.0000         5.500           7.0000         6.000           8.0000         6.000           6.0000         5.500           6.0000         5.500           6.0000         5.500           6.0000         5.500           6.0000         5.500           6.0000         5.500	39.70 00-3.50000 00-5.50000 00-5.50000 00-5.00000 00-5.00000 00-5.00000 00-6.00000 00-6.50000 00-5.500000 00-5.500000 00-5.500000 00-5.500000000 00-5.500000 000		25 -20 -15 -10 -5	0 50 10.0	20.0 3	0.0 m/s
50.70         7.0000.6         5.0000.2         8.0000.4 <t< td=""><td>55.05 54.90 54.75 54.60 54.45 54.00 53.55 53.70 53.55 53.70 53.55 53.25 53.25 53.25 52.95 52.80 52.250 52.250 52.25 52.25 51.00 51.45 51.30 51.15 51.30 51.15 51.30 51.51 51.30 51.51 51.55 51.5</td><td>32,70         33,70         34,70           3,50000         -6,00000         -6,50000           5,00000         -3,50000         -6,00000           -6,50000         -6,00000         -5,00000           -7,00000         -6,50000         -7,00000           -7,00000         -6,50000         -7,00000           -7,00000         -6,00000         5,00000           -7,00000         -5,00000         -6,00000           -8,00000         -0,00000         -6,00000           -8,00000         -5,00000         -6,00000           -5,00000         -5,00000         -11,5           -5,50000         -15,0000         -11,0           -5,50000         -7,00000         -5,0000           -5,00000         -7,00000         -6,00000           -5,50000         -1,50000         -11,0           -5,50000         -7,00000         -6,00000           -5,00000         -7,00000         -6,00000           -5,00000         -7,00000         -6,00000           -5,00000         -7,00000         -6,00000           -5,00000         -7,00000         -6,00000           -5,00000         -5,00000         -6,00000           -5,00000</td><td>35.70 36.70 C-6.5000C RF 5.0000C RF 5.0000C CRF 5.0000C CRF 5.000</td><td>37.70         38.70           5.0000         4.500           6.5000         5.500           5.50000         6.500           10.5         5000           6.0000         6.500           10.5         5000           6.0000         6.500           5.0000         4.000           5.0000         4.000           5.0000         4.000           5.0000         6.000           5.0000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           6.0000         5.000           6.0000         5.000           6.0000         5.000           6.0000         5.000           6.0000         5.000           6.0000         5.000           6.0000         5.000           6.0000         5.000           6.0000         6.000</td><td>39.70 00-3.50000 00-5.50000 00-5.00000 00-5.00000 00-5.00000 00-5.00000 00-6.00000 00-6.00000 00-5.50000 00-6.00000 00-6.500000 00-6.00000 00-6.500000 00-6.00000 00-6.00000 00-6.00000 00-6.00000 00-6.000000 00-6.000000 00-6.000000 00-6.000000 00-6.000000 00-6.000000 00-6.0000000000 00-6.0000000000000000000000000000000000</td><td></td><td>25 -20 -15 -10 -5</td><td>0 50 10.0</td><td>20.0 3</td><td>0.0 m/s</td></t<>	55.05 54.90 54.75 54.60 54.45 54.00 53.55 53.70 53.55 53.70 53.55 53.25 53.25 53.25 52.95 52.80 52.250 52.250 52.25 52.25 51.00 51.45 51.30 51.15 51.30 51.15 51.30 51.51 51.30 51.51 51.55 51.5	32,70         33,70         34,70           3,50000         -6,00000         -6,50000           5,00000         -3,50000         -6,00000           -6,50000         -6,00000         -5,00000           -7,00000         -6,50000         -7,00000           -7,00000         -6,50000         -7,00000           -7,00000         -6,00000         5,00000           -7,00000         -5,00000         -6,00000           -8,00000         -0,00000         -6,00000           -8,00000         -5,00000         -6,00000           -5,00000         -5,00000         -11,5           -5,50000         -15,0000         -11,0           -5,50000         -7,00000         -5,0000           -5,00000         -7,00000         -6,00000           -5,50000         -1,50000         -11,0           -5,50000         -7,00000         -6,00000           -5,00000         -7,00000         -6,00000           -5,00000         -7,00000         -6,00000           -5,00000         -7,00000         -6,00000           -5,00000         -7,00000         -6,00000           -5,00000         -5,00000         -6,00000           -5,00000	35.70 36.70 C-6.5000C RF 5.0000C RF 5.0000C CRF 5.0000C CRF 5.000	37.70         38.70           5.0000         4.500           6.5000         5.500           5.50000         6.500           10.5         5000           6.0000         6.500           10.5         5000           6.0000         6.500           5.0000         4.000           5.0000         4.000           5.0000         4.000           5.0000         6.000           5.0000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           6.0000         5.000           6.0000         5.000           6.0000         5.000           6.0000         5.000           6.0000         5.000           6.0000         5.000           6.0000         5.000           6.0000         5.000           6.0000         6.000	39.70 00-3.50000 00-5.50000 00-5.00000 00-5.00000 00-5.00000 00-5.00000 00-6.00000 00-6.00000 00-5.50000 00-6.00000 00-6.500000 00-6.00000 00-6.500000 00-6.00000 00-6.00000 00-6.00000 00-6.00000 00-6.000000 00-6.000000 00-6.000000 00-6.000000 00-6.000000 00-6.000000 00-6.0000000000 00-6.0000000000000000000000000000000000		25 -20 -15 -10 -5	0 50 10.0	20.0 3	0.0 m/s
50.75 -6.50000-8.50000-8.60000-8.60000-7.00000-3.500000 50.45 -6.50000-5.50000-8.00000-6.00000-7.00000-11.5 -6.500000-1.50000 50.40 -5.50000-6.50000-6.00000-6.50000-7.00000-4.50000 50.25 -5.00000-5.50000-6.00000-8.50000-8.00000-4.500000-4.500000 50.10 -2.500000-6.00000-5.50000-6.00000-5.500000-4.500000-4.500000 50.10 -2.500000-6.00000-5.50000-6.00000-5.500000-4.500000-4.500000 50.10 -2.500000-6.00000-5.50000-6.00000-5.500000-4.500000-4.500000-4.500000-4.500000-4.500000-4.500000-5.50000-6.00000-5.500000-6.500000-4.500000-4.500000-6.00000-5.50000-6.00000-5.50000-5.500000-6.500000-4.500000-4.500000-6.00000-5.50000-6.00000-5.50000-5.500000-6.500000-4.500000-6.50000-5.50000-5.50000-6.00000-5.500000-5.500000-6.500000-5.50000-5.50000-5.50000-5.50000-5.50000-5.500000-5.500000-6.500000-5.50000-5.50000-5.50000-5.50000-5.500000-5.500000-5.500000-5.500000-5.50000-5.50000-5.50000-5.50000-5.500000-5.500000-5.500000-5.500000-5.500000-5.500000-5.50000-5.500000000	55.05 54.90 54.75 54.60 54.45 54.00 53.55 53.70 53.55 53.70 53.55 53.25 53.10 52.95 52.80 52.80 52.25 52.20 52.25 52.20 52.25 51.90 51.75 51.45 51.45 51.30 51.45 51.05	32.70         33.70         34.70           3.50000         -6.00000         -6.0000           5.0000         -5.0000         5.0000           -7.00000         -6.00000         -7.0000           -7.00000         -6.00000         -7.00000           -7.00000         -6.00000         -7.00000           -7.00000         -6.00000         -7.00000           -7.00000         -5.00000         -7.00000           -6.00000         3.00000         -7.00000           -5.00000         5.00000         -6.00000           -5.00000         -7.00000         -6.00000           -5.00000         -7.00000         -6.00000           -5.00000         -7.00000         -8.0000           -5.00000         -7.00000         -8.0000           -5.00000         -7.00000         -8.0000           -5.00000         -7.00000         -7.00000           -5.00000         -7.00000         -7.00000           -5.00000         -7.00000         -7.00000           -5.00000         -7.00000         -6.00000           -5.00000         -7.00000         -5.0000           -5.00000         -7.00000         -5.0000           -5.00000 </td <td>35.70 36.70 C-6.5000C RF C-5.5000C RF CF 5.00000 CF 6.5000C 5.00000 C-7.0000C -5.00000 C-7.0000C -5.00000 C-7.5000C -6.00000 C-7.5000C -5.50000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-5.50000C -7.00000 C-5.50000C -7.00000 C-5.50000C -7.00000 C-5.50000C -5.00000 C-5.50000C -5.50000 C-5.50000C -5.50000 C-5.0000C -5.5000 C-5.0000C -5.5000 C-5.0000C -5.5000 C-5.0000C -5.5000 C-5.0000C -5.5000 C-5.0000C -5.5000 C-5.000C -5.5000</td> <td>37,70         38,70           5,0000         4,500           6,5000         5,500           5,5000         5,500           5,5000         5,500           5,0000         5,500           6,0000         6,500           7,0000         3,500           5,0000         5,500           5,0000         5,500           5,0000         6,0000           6,0000         5,500           6,0000         5,500           7,0000         6,000           5,5000         6,000           5,5000         6,000           5,5000         6,000           7,0000         6,000           5,5000         6,000           5,5000         6,000           6,0000         5,500           7,0000         6,000           7,0000         7,000           6,0000         5,500           7,0000         7,000           6,0000         5,500           6,0000         5,500           6,0000         5,500           5,5000         7,000           6,0000         5,500           7,000         6,000</td> <td>39.70 00-3.50000 00-5.50000 00-5.00000 00-5.00000 00-5.00000 00-6.00000 00-6.00000 00-6.50000 00-5.500000 00-5.500000 00-5.50000 00-5.50000 00-5.50000 00-5.5000</td> <td>RF MD \$-30</td> <td>25 -20 -15 -10 -5</td> <td></td> <td>20.0 3</td> <td>0.0 m/s</td>	35.70 36.70 C-6.5000C RF C-5.5000C RF CF 5.00000 CF 6.5000C 5.00000 C-7.0000C -5.00000 C-7.0000C -5.00000 C-7.5000C -6.00000 C-7.5000C -5.50000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-7.5000C -7.00000 C-5.50000C -7.00000 C-5.50000C -7.00000 C-5.50000C -7.00000 C-5.50000C -5.00000 C-5.50000C -5.50000 C-5.50000C -5.50000 C-5.0000C -5.5000 C-5.0000C -5.5000 C-5.0000C -5.5000 C-5.0000C -5.5000 C-5.0000C -5.5000 C-5.0000C -5.5000 C-5.000C -5.5000	37,70         38,70           5,0000         4,500           6,5000         5,500           5,5000         5,500           5,5000         5,500           5,0000         5,500           6,0000         6,500           7,0000         3,500           5,0000         5,500           5,0000         5,500           5,0000         6,0000           6,0000         5,500           6,0000         5,500           7,0000         6,000           5,5000         6,000           5,5000         6,000           5,5000         6,000           7,0000         6,000           5,5000         6,000           5,5000         6,000           6,0000         5,500           7,0000         6,000           7,0000         7,000           6,0000         5,500           7,0000         7,000           6,0000         5,500           6,0000         5,500           6,0000         5,500           5,5000         7,000           6,0000         5,500           7,000         6,000	39.70 00-3.50000 00-5.50000 00-5.00000 00-5.00000 00-5.00000 00-6.00000 00-6.00000 00-6.50000 00-5.500000 00-5.500000 00-5.50000 00-5.50000 00-5.50000 00-5.5000	RF MD \$-30	25 -20 -15 -10 -5		20.0 3	0.0 m/s
50.40 -5 50000-8 50000-8 60000-7 00000-11 5 - 6 50000-150000 50.40 -5 50000-6 50000-6 6 50000-6 50000-7 00000-4 50000 -4 50000 50.25 -5 00000 -5 50000-6 00000-8 50000-8 50000-8 500000-4 50000 -4 50000 50.10 -2 50000 -5 50000 -5 50000 -5 50000 -5 500000 -4 50000 -4 50000 -4 50000 -4 50000 -5 50000 -5 50000 -5 50000 -5 50000 -5 50000 -5 50000 -5 50000 -5 50000 -5 50000 -5 50000 -5 50000 -5 50000 -5 50000 -5 50000 -5 50000 -5 50000 -5 50000 -5 50000 -4 50000 -4 50000 -5 50000	55.05 54.90 54.75 54.60 54.45 54.30 54.15 53.05 53.70 53.55 53.40 53.25 53.40 53.25 53.40 53.25 52.20 52.35 52.20 52.25 52.20 52.25 52.20 51.75 51.40 51.15 51.30 51.15 51.30 51.15 51.30 51.15	32,70         33,70         34,70           3,50000         6,00000         6,0000           5,0000         8,00000         6,0000           6,50000         6,00000         5,0000           7,00000         6,00000         5,0000           7,00000         6,00000         5,0000           7,00000         5,0000         5,0000           7,00000         5,0000         6,0000           8,00000         0,0000         6,0000           5,00000         5,0000         6,0000           5,00000         5,0000         4,0000           5,00000         5,0000         4,0000           5,00000         1,0000         5,0000           5,00000         1,0000         5,0000           5,00000         5,0000         5,0000           5,00000         5,0000         5,0000           5,00000         5,0000         6,0000           5,00000         5,0000         6,0000           5,00000         5,0000         6,0000           6,00000         6,0000         6,0000           6,00000         6,0000         6,0000           5,00000         5,00000         6,0000 <t< td=""><td>35.70 36.70 C -6.5000C RF 5.0000C RF 5.0000C C RF 0.0000C C RF 0.000C C RF 0.000C C</td><td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td>39.70 00.3.50000 00.5.50000 00.5.50000 00.5.00000 00.5.00000 00.5.00000 00.5.00000 00.6.00000 00.6.50000 00.5.500000 00.5.50000 00.5.500000 00.5.500000 00.5.5000000000 00.5.50000000000</td><td>RF MD \$650</td><td>25 -20 -15 -10 5</td><td></td><td>20.0 3</td><td>0.0 m/s</td></t<>	35.70 36.70 C -6.5000C RF 5.0000C RF 5.0000C C RF 0.0000C C RF 0.000C C	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	39.70 00.3.50000 00.5.50000 00.5.50000 00.5.00000 00.5.00000 00.5.00000 00.5.00000 00.6.00000 00.6.50000 00.5.500000 00.5.50000 00.5.500000 00.5.500000 00.5.5000000000 00.5.50000000000	RF MD \$650	25 -20 -15 -10 5		20.0 3	0.0 m/s
50.25 5 50000 5 50000 6 60000 6 50000 7 00000 4 50000 4 50000 4 50000 5 5000 5 5000 5 5000 6 6 0000 7 50000 5 5000 6 6 0000 7 4 50000 4 50000 4 50000 5 5000 6 6 0000 7 50000 5 50000 5 50000 5 50000 5 50000 5 50000 5 50000 5 50000 5 50000 5	$\begin{array}{c} 55.05\\ 54.90\\ 54.75\\ 54.60\\ 54.45\\ 54.00\\ 54.45\\ 53.85\\ 53.70\\ 53.55\\ 53.25\\ 53.25\\ 53.25\\ 52.25\\ 52.25\\ 52.25\\ 52.25\\ 51.90\\ 52.25\\ 51.00\\ 51.45\\ 51.00\\ 51.45\\ 51.00\\ 51.15\\ 51.00\\ 50.85\\ 50.70\\ 51.00\\ 51.25\\ 51.00\\ 51.00\\ 51.25\\ 51.00\\ 51$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	35.70 36.70 C-6.5000C RF C-5.5000C RF CF 5.00000 CF 5.00000 C-6.5000C C-7.0000C C-7.0000C C-7.5000C C-5.5000C	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	39.70 00-3.50000 00-5.00000 00-5.00000 00-5.00000 00-5.00000 00-5.00000 00-6.00000 00-6.00000 00-5.50000 00-6.00000 00-6.50000	RF MD \$450	25 -20 -15 -10 -5		20.0 3	0.0 m/s
50.25 -5.00001 -5.50000 - 6.00000 - 8.50000 - 6.00000 - 4.50000 - 4.50000 - 4.50000 - 5.5000 - 5.5000 - 5.50000 - 5.50000 - 5.50000 - 5.50000 - 5.	$\begin{array}{c} 55.05\\ 54.90\\ 54.75\\ 54.60\\ 54.45\\ 54.30\\ 54.45\\ 53.85\\ 53.70\\ 53.85\\ 53.70\\ 53.85\\ 53.70\\ 53.295\\ 52.85\\ 52.20\\ 52.20\\ 52.20\\ 52.20\\ 52.20\\ 52.20\\ 52.20\\ 51.65\\ 52.20\\ 51.65\\ 51.60\\ 51.15\\ 51.30\\ 51.15\\ 51.30\\ 51.15\\ 51.30\\ 51.51\\ 0.05\\ 51.51\\ 0.05\\ 51.51\\ 0.05\\ 51.55\\ 51.0$	32,70         33,70         34,70           3,50000         6,00000         6,0000           5,00000         3,50000         6,0000           6,50000         6,00000         5,0000           7,00000         6,00000         5,0000           7,00000         6,00000         5,0000           7,00000         6,00000         5,0000           7,00000         5,0000         6,0000           8,00000         3,0000         6,0000           5,00000         3,0000         6,0000           5,00000         5,00000         8,0000           6,00000         12,5         -11,5           5,50000         15,0000         8,0000           5,50000         15,0000         -11,0           5,50000         15,0000         -5,0000           5,50000         7,00000         -5,0000           5,50000         7,00000         -5,0000           5,50000         5,00000         5,0000           5,50000         5,00000         5,0000           5,50000         5,00000         5,0000           5,50000         5,00000         5,0000           5,50000         5,00000         5,0000	35.70         36.70           C-6.5000C RF         500000           CF         500000           CRF         500000           C-5.5000C RF         500000           CRF         500000           CRF         500000           C-5.5000C -5.0000         -7.00000           C-7.5000C -5.50000         -7.00000           C-7.5000C -5.50000         -7.00000           C-7.5000C -7.00000         -7.00000           C-7.5000C -7.00000         -6.00000           C-8.5000C -7.00000         -6.50000           C-5.5000C -6.00000         -6.00000           C-6.5000C -6.00000         -6.00000           C-5.5000C -5.00000         -6.00000           C-5.5000C -5.00000         -6.00000           C-5.5000C -5.00000         -6.00000           C-5.5000C -5.500000         -6.00000           C-5.5000C -5.500000         -5.500000           C-5.0000C -5.500000         -5.500000           C-6.0000C -1.00000         -5.500000           C-6.00000 -1.00000         -6.00000           C-6.00000 -1.00000         -6.00000           C-6.00000 -1.00000         -6.00000           C-6.00000 -1.00000         -6.000000           C-6.00000 -1	37,70         38,70           5,0000         4,500           6,5000         5,500           5,0000         5,500           5,0000         5,500           5,0000         5,500           6,0000         6,500           7,0000         4,500           6,0000         5,500           5,0000         5,500           5,0000         5,500           5,0000         5,500           6,0000         5,500           6,0000         5,500           7,0000         6,000           7,5000         6,000           7,5000         6,000           7,5000         6,000           5,5000         6,000           5,5000         6,000           5,5000         6,000           5,5000         6,000           5,5000         6,000           5,5000         7,000           6,0000         6,000           6,0000         6,000           5,5000         7,000           5,5000         7,000           5,5000         6,000           5,5000         6,000           5,5000         6,000	39.70 00-3.50000 00-5.50000 00-5.00000 00-5.00000 00-5.00000 00-6.00000 00-6.00000 00-6.50000 00-5.500000 00-5.500000 00-5.50000 00-5.50000 00-5.50000 00-5.5000				20.0 3	0.0 m/s
50.10 225000 - 5.0000	$\begin{array}{c} 55.05\\ 54.90\\ 54.75\\ 54.60\\ 54.45\\ 54.30\\ 54.15\\ 55.00\\ 53.55\\ 53.70\\ 53.55\\ 53.70\\ 53.55\\ 53.70\\ 53.50\\ 52.95\\ 52.80\\ 52.95\\ 52.20\\ 52.20\\ 52.20\\ 52.20\\ 52.20\\ 52.20\\ 52.20\\ 52.50\\ 51.75\\ 51.60\\ 51.45\\ 51.00\\ 51.15\\ 51.00\\ 51.15\\ 51.00\\ 51.55\\ 50.75\\ 50.55\\ 50.40\\ 50.40\\ 50.40\\ 50.40\\ 50.40\\ 50.40\\ 50.40\\ 50.40\\ 50.55\\ 50.40\\ 50.40\\ 50.40\\ 50.40\\ 50.40\\ 50.55\\ 50.40\\ 50$	32,70         33,70         34,70           3,50000         -6,00000         -6,0000           5,00000         -8,00000         -6,0000           -6,50000         -6,00000         -7,00000           -7,00000         -6,00000         -7,00000           -7,00000         -6,00000         -7,00000           -7,00000         -5,0000         -7,00000           -7,00000         -5,0000         -7,00000           -8,00000         30,0000         -7,0000           -8,00000         -0,0000         -6,0000           -5,50000         -5,0000         -6,0000           -5,50000         -11,5         -5,50000           -5,50000         -1,50000         -8,0000           -5,50000         -1,50000         -8,0000           -5,50000         -1,50000         -1,0000           -5,50000         -5,50000         -5,50000           -5,50000         -5,50000         -5,50000           -5,50000         -5,50000         -6,00000           -5,50000         -5,50000         -6,00000           -5,50000         -5,00000         -5,0000           -5,50000         -5,00000         -5,00000           -5,00000	35.70 36.70 C-6.5000C RF 5.0000C RF 5.0000C CRF CRF CRF CRF CRF CRF CRF CR	37.70         38.70           5.0000         4.500           6.5000         5.500           5.5000         6.500           10.5         5000           6.0000         4.000           6.0000         4.000           5.0000         4.000           5.0000         4.000           5.0000         4.000           5.0000         4.000           5.0000         4.000           5.0000         6.000           5.0000         6.000           5.5000         6.000           7.0000         6.000           5.5000         6.000           7.0000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           5.5000         6.000           6.0000         5.000           6.0000         5.000           6.0000         5.000           6.0000         5.000           6.0000         5.000           6.0000         6.000           5.5000         6.000           5.5000         6.000	39.70 00.3.50000 00.5.50000 00.5.00000 00.5.00000 00.5.00000 00.5.00000 00.5.00000 00.6.00000 00.5.500000 00.5.500000 00.5.500000 00.5.500000000 00.5.500000 00.	RF MD \$450	25 -20 -15 -10 5		20.0 3	0.0 m/s
	$\begin{array}{c} 55.05\\ 54.90\\ 54.75\\ 54.60\\ 54.45\\ 54.00\\ 54.45\\ 53.85\\ 53.70\\ 53.55\\ 53.25\\ 53.25\\ 53.25\\ 52.25\\ 52.25\\ 52.25\\ 52.25\\ 52.25\\ 51.90\\ 51.45\\ 51.00\\ 51.45\\ 51.00\\ 51.45\\ 51.00\\ 50.55\\ 50.70\\ 50.50\\ 50.25\\ 50.45\\ 50.25\\ 50$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	35.70         36.70           C-5.5000C RF         C           CF         5.00000           CRF         5.00000           C-6.5000C -5.00000         C           C-7.0000C -5.00000         C           C-7.0000C -5.00000         C           C-7.0000C -5.50000         C           C-7.0000C -5.50000         C-7.0000C           C-7.0000C -7.00000         C           C-7.0000C -7.00000         C           C-7.0000C -7.00000         C           C-8.0000C -8.00000         C           C-9.000C -8.00000         C           C-9.000C -5.50000         C           C-9.000C -7.00000         C           C-5.0000C -6.00000         C           C-5.0000C -5.50000         C           C-5.0000C -5.50000         C           C-5.5000C -6.00000         C           C-5.5000C -5.50000         C	37,70         38,70           5,0000         4,500           6,5000         5,500           5,5000         5,500           5,5000         5,500           6,5000         5,500           6,0000         6,500           6,0000         4,500           7,0000         4,000           5,0000         4,000           5,0000         4,000           5,0000         4,000           5,0000         6,000           5,0000         6,000           6,0000         7,000           6,0000         5,500           7,0000         6,000           7,0000         6,000           7,5000         6,000           6,0000         5,500           6,0000         5,500           6,0000         5,500           6,0000         5,500           6,0000         5,500           6,0000         5,500           6,0000         5,500           6,0000         5,500           7,0000         6,000           7,0000         5,500           1,5         6,500           6,0000         5,500	39.70 00-3.50000 00-5.00000 00-5.00000 00-5.00000 00-5.00000 00-5.00000 00-6.00000 00-6.00000 00-5.500000 00-5.500000 00-5.500000 00-5.500000000 00-5.500000 00-	RF MD \$450			20.0 3	0.0 m/s

Fig. 5. Examples of artifacts in the TDWR velocity data. Top shows 2DMPDA data and bottom shows SPG data.