

# 19880915I2.AXBT

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## AXCP Log

Flight Number 880915I2

Storm Name Gilbert

Storm Direction/Speed \_\_\_\_\_

Take-off Time 2145Z

Landing Time \_\_\_\_\_

AXBT'D

Leg #	Out/In	RA (m)	PMIN (mb)	VMAX (m/s)	RMAX (km)	Time PMIN	Time VMAX	Time End Pass
1	in	1500	949			002800		

in  
E → S

9/16/88

Leg/Drop No.	Ch. No.	Launch Tube No.	Serial No. (S/F)	Counter No. <sup>2</sup>		Ground Speed	Predicted Drop Time	Actual Drop Time	Latitude	Longitude	Status		SST Comments
				Small	Big						Good	Bad	
1-1	16	<del>16</del>						2320	24°29.2	88°09.2	✓		27.7
1-2	12							232730	24°17.0	88°48.8	✓		27.3
1-3	16							233500	24°06.7	89°29.7	✓		27.2
1-4	14							234230	23°54.7	90°08.6	✓		27.4
1-5	16							235000	23°40.5	90°26.0	✓		26.8
1-6	12							235730	23°27.6	91°26.0	✓		26.3 sig lost at 0022
1-7	16							000500	23°15.5	92°04.1	✓		27.1
1-8	14							001230	23°01.1	92°43.0	✓		26.3
1-9	12							002000	22°47.5	93°15.1	✓		at 5000' alt.
1-10	16							002800	22°32.0	93°44.0	✓		27.6 5 center

<sup>1</sup>S = slow fall; F = fast (regular) fall.

<sup>2</sup>Analog tape counter: small = Marantz unit; big = JVC unit.

### AXCP Log

Flight Number 880915 I 2  
 Storm Name Gilbert  
 Storm Direction/Speed \_\_\_\_\_  
 Take-off Time \_\_\_\_\_  
 Landing Time \_\_\_\_\_

Leg #	Out/In	RA (m)	PMIN (mb)	VMAX (m/s)	RMAX (km)	Time PMIN	Time VMAX	Time End Pass
2	in	1500	949.6			015430		

9/16/88  
 in  
 S → S  
 out  
 S → E  
 E → S  
 S → S

Leg/ Drop No.	Ch. No.	Launch Tube No.	Serial <sup>1</sup> No. (S/F)	Counter No. <sup>2</sup>		Ground Speed	Predicted Drop Time	Actual Drop Time	Latitude	Longitude	Status		SSJ Comments
				Small	Big						Good	Bad	
2-11	16							012901	2058.4	94 05.3	✓		28.0
2-12	12							013803	2133.6	94 04.4	✓		28.0
2-13	16							014703	2207.9	93 57.6	✓		27.4 outside eye wall
3-14	14							032845	2246.5	93 41.0	✓		27.0
3-15	12							033847	2245.0	93 02.0	✓		25.8
3-16	16							035101	2248.8	92 25.3	✓		25.7
4-17								041200	2211.8	93 13.3		✓	no carrier 110 kt
4-18								043100	2141.2	93 54.3		✓	momentary mod., then nothing
4-19	16							045645	2114.7	94 40.9		✓	no carrier
5-20	14							050440	2206.5	94 39.7	✓		28.1

<sup>1</sup>S = slow fall; F = fast (regular) fall.  
<sup>2</sup>Analog tape counter: small = Marantz unit; big = JVC unit.

Lead Project Scientist Event Log

Date 15 Sept. 1988 Flight 880915J2 LPS Markus (1)

Time	Event	Position	Comments
21445	TO		850 mb PA
			fly straight to eye
000730	descend <sup>to 5000'</sup> at 1000 mi from G		late for fix descend to alt 70010x
2320		24°29.2" 88°9.2"	AXBT 1 ch 16 27.7 ST
232730		24°17" 88°48.8"	2 12 27.3
233500		24°6.7" 89°29.7"	3 16 27.2
234230		23°54.7" 90°8.6"	4 14 27.4
235000		23°40.5" 90°47.1"	5 16 26.8
235730		23°17.6" 91°26.0"	6 12 26.3 signal lost
000500		23°15.5" 92°4.1"	7 16 27.1 <del>000</del> 22
001230		23°1.1" 92°43.0"	8 14 26.3
001810	5000' PA	22°50.6" 93°8.7"	
002000		22°47.5" 93°15.1"	9 12 ? OK
002808	22°32" 93°44" in G	TK 270°	949 mb 10 16 27.6
0056	<sup>outside</sup> TURN TK 135	22°32.5" 95°42.5"	<sup>inner</sup> edge of secondary wind max
012550	<sup>outside</sup> TURN TK 360°	20°52.3" 94°4.2"	in secondary wind max
012901		20°58.4" 94°5.3"	AXBT 11 28.0° <sup>ch 16</sup> inside water wind max
013803		21°33.6" 94°4.4"	AXBT 12 <sup>ch 16</sup> 28.0°
014703		22°7.9" 93°57.6"	AXBT 13 <sup>ch</sup> outside eq wall 16 27.4
015430	GTK 360	22°38" 93°59"	949.6 mb

Lead Project Scientist Event Log

Date 15 Sept 1988 Flight 880915I2 LPS Mauls (2)

Time	Event	Position	Comments
022019	<sup>outside</sup> TURN TK225°	24°19.1" 93°57.8"	20km inside outer rim, short leg because of fix time constraint. (032)
025230	<sup>outside</sup> TURN TK 090°	22°43" 96°3.2"	
			0312Z huge echoes in eyewall bomb cloud
031957	TK 090°	22°45" 94°18"	950mb Pressure center 3Nm E of eye
032845		22°46.5" 93°41"	AXBT #14 ch14 (27.0) eyewall
033847		22°45" 93°2.0"	AXBT #15 ch12 (25.80)
034850	<sup>outside</sup> Turn TK 225°	22°46" 92°2"	TK SW topoint 5075
			Doppler looked great on N→S, W→E runs
035101		22°48.5" 92°25.3"	AXBT #16 ch16 (25.7)
041220		22°11.8" 93°13.3"	3" AXBT #17 [dud] no carrier
0415-0418			110kts in outer wind max
0427			beautiful Doppler across
		500032	vamband SE of eye 80nm
			same place as on Monday
043100		21°41.2" 93°54.3"	AXBT #18 [dud] momentary TS
0436			TA Doppler out off frequency
044930	<sup>inside</sup> TURN TK 360°	21°12" 94°40.8"	- DUG can't fix till turb stops
045045	ch 16	21°14.7" 94°40.9"	AXBT #19 [dud] No carrier
045500			TA Doppler back up

130  
40  
5200



2902  
24.4 89.3

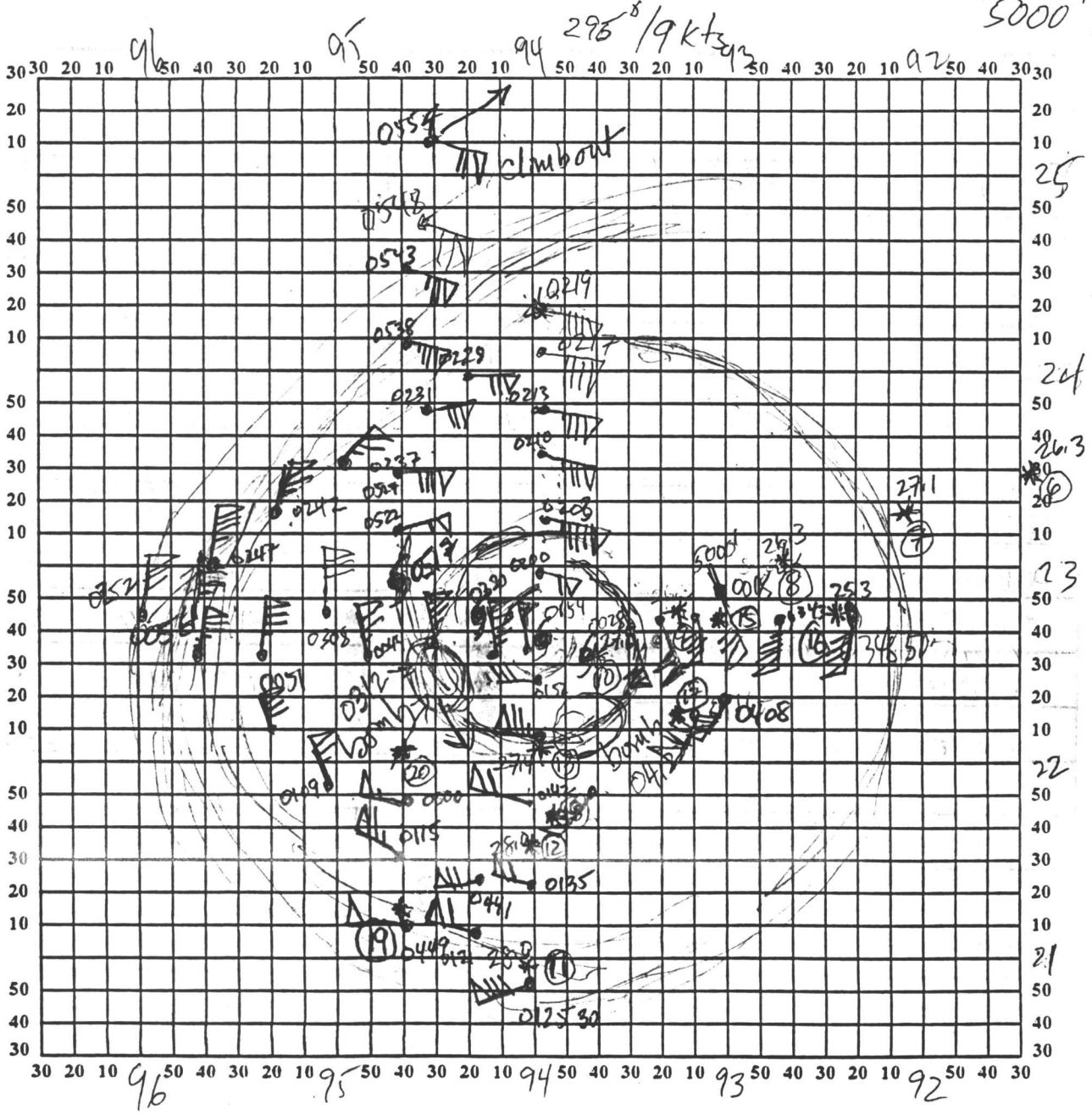
### Hurricane Recco Plotting Chart

\* AXBT'S  
(6)

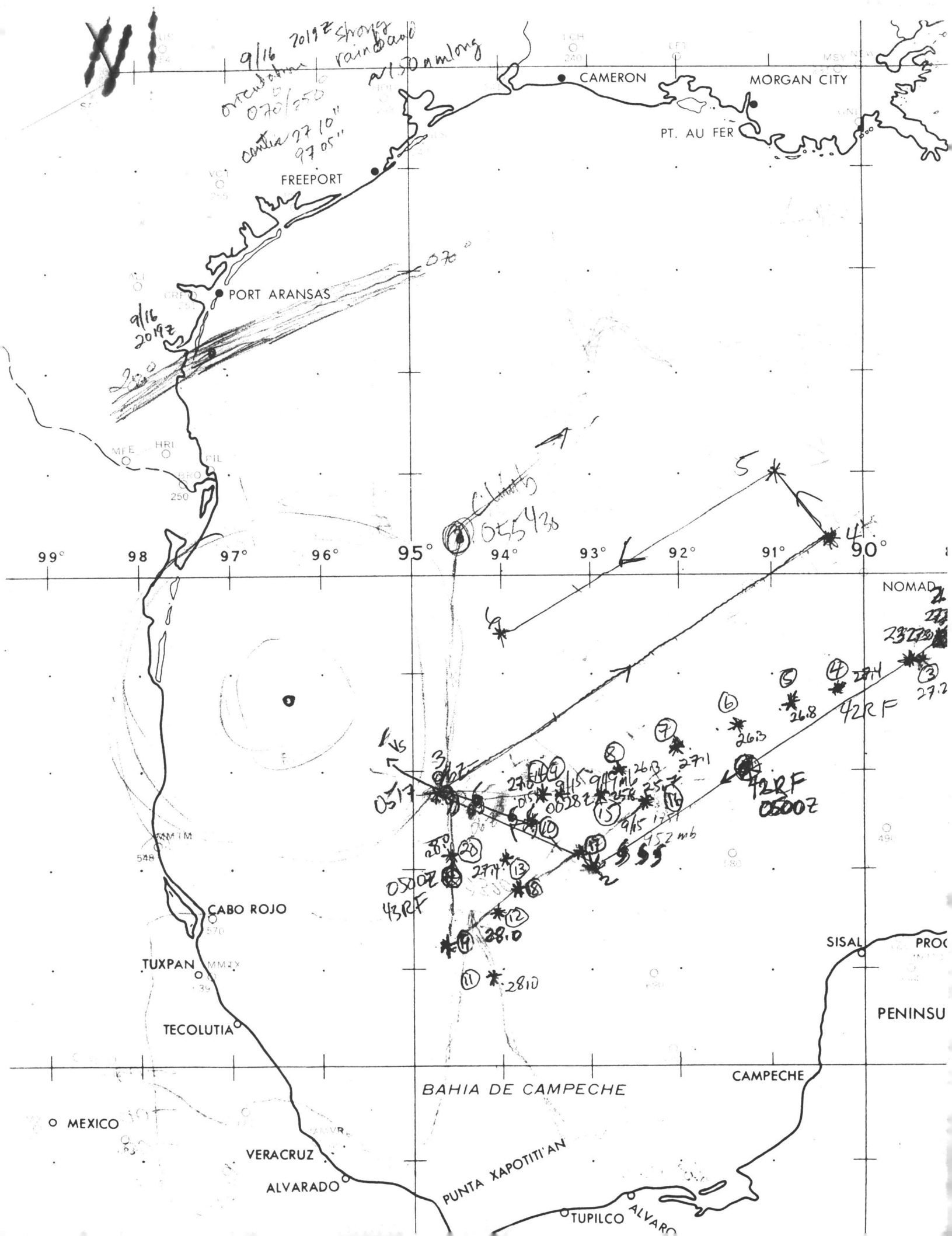
True at 25° Latitude, in Degrees and Minutes of  $\phi$  and  $\lambda$ .

Date 9/15/88 Longitude 880915I2 Observer Markis

5000' PA



Note: Label full degrees according to location of flight area.



#5 = CP#1  
 #16 / #14  
 Prestoria / Storm

#	Gcca	Gcova	Gefa	Gerv4	Gervfa
8710140	1728.08	896.53	24689.21	497.89	493.59
88312	1838.23	898.39	24787.34	502.50	494.52
88177	1832.25	897.05	24727.95	500.36	482.42
88232	1811.26	905.33	24798.49	496.36	492.89
<sup>222</sup> 88222	<del>1803.72</del> 1811.93	<del>900.82</del> 907.88	<del>24778.34</del> 24776.6	<del>500.34</del> 500.22	<del>496.38</del> 492.24
88225	<del>1836.74</del> <del>1850.43</del>	<del>898.12</del> <del>905.01</del>	<del>24701.91</del> <del>24700.82</del>	<del>500.13</del> <del>500.22</del>	<del>492.20</del> <del>492.15</del>
88315	1840.49	909.26	24910.29	502.19	494.22
<sup>224</sup> 88229A	1839.36	901.18	24720.36	498.16	494.17
88220	1837.68	900.47	24839.93	500.55	492.58
88173	1839.34	802.72	24848.71	500.38	496.41
88308	1852.42	912.05	24925.79	503.01	495.02
88198	1836.40	901.57	24832.97	496.15	492.19
88214	1797.83	896.99	24765.76	500.31	492.37
88201	1836.49	898.16	24886.80	500.21	492.27
88166	<del>1807.39</del>	<del>896.21</del>	<del>24720.26</del> 24979.17	<del>496.34</del> 500.34	<del>492.41</del> 492.41
<sup>P</sup> 88228	<del>1802.23</del> 1833.33 ✓	<del>903.48</del> 899.42 ✓	<del>24778.21</del> 24974.55 ✓	<del>501.21</del> 499.95 ✓	<del>489.27</del> 495.99 ✓
88311	1856.26	913.36	24953.11	498.45	498.46
88176	1851.43	907.97	24869.62	500.43	496.47
<sup>227</sup> 88227A	<del>1835.40</del> 1806.12	<del>898.77</del> 906.05	<del>24778.09</del> 24963.67	<del>503.90</del> 501.43	<del>495.96</del> 497.45
88219	1787.50	882.89	24972.72	496.37	492.40

There are 3 88228 ??? heads?



W Ave: 2

	Secu	Secu	Secu	Secu	Secu
88110	1834.22 1840.40	897.62 908.44	24698.26 24682.25	500.35 497.83	492.41 493.84
88235	1807.16	903.26	24617.72	500.06	492.11
88224	1846.74	903.23	24815.11	500.16	492.22
88203	1839.31	897.55	24690.72	496.29	496.30
88116	1830.47	906.26	24906.2	499.11	495.11
88105	1845.26	906.86	24843.93	500.21	496.23
88309	1822.66	911.93	24735.58	502.73	494.74
88226	1846.36	906.70	24863.73	504.08	492.02
88186	1792.38	903.05	24859.41	496.00	492.03
88229	1800.57	898.62	24786.59	495.90	491.93
88316	1848.94	903.25	24732.37	494.17	494.16
88217	1840.52	901.76	24715.39	496.35	492.38
871072	1798.87	901.81	23715.31	494.93	495.93
88222	1803.72 1811.93	900.82 907.88	24778.74 24766.40	500.34 500.20	496.38 492.24
88183	1807.56	901.93	24618.58	500.35	496.37
88313	1846.48	906.86	24840.18	498.38	494.38
88227A	1835.70	898.77	24841.09	503.90	495.96
8710151	1748	912	23988	499	497
88218	1837.52	801.52	24691.85	486.35	482.38
88229	1846.98	904.46	24819.57	500.56	496.57
88114	1840.53	903.59	24773.70	500.29	496.31
88199	1839.96	907.55	24915.23	500.16	496.20
8710111	1830.24	922.63	24846.14	498.94	494.53
8710145	1809.29	906.79	24406.80	501.86	492.87
88109	1806.47	903.30	25073.71	500.34	496.39
88221	1848.05 1852.00	906.46 904.54	24725.10 24840.65	503.85 500.34	491.84 492.40
88103	1813.11	903.22	24666.18	496.18	496.12
88112	1820.07	896.87	24522.48	496.33	496.33
88221	1804.23	905.44	24868.41	500.45	492.60

WAKE L

#	Gccu	Gccru	Gefu	Gevfu	Gcvfu
8808165	1838.87	904.43	24870.81	503.48	495.48
8710154	1768.10	906.79	24130.41	497.92	497.92
8808178	1849.35	813.06	25700.95	495.21	495.22
88185	1853.89	905.30	24888.10	500.18	496.23
88234	1844.59 ✓	903.09	24739.00	496.19	492.21
88228	1802.23 <del>1837.36</del>	903.98 <del>901.18</del>	24858.21 <del>24730.36</del>	501.21 <del>498.16</del>	489.27 <del>494.17</del>
88230A	1844.73	901.61	24850.71	500.50	492.55
88167	<del>1855.23</del> 1838.62 ✓	<del>905.82</del> 903.6	<del>24947.44</del> 24860.36	<del>496.45</del> 500.47	<del>492.47</del> 492.62
88230	1845.42	907.51	24948.13	498.05	498.05
8808167	1841.27	912.06	25131.76	499.27	495.27
88226A	1846.36	906.72	24953.73	504.00	492.10
88220 →	1839.32 1837.68	902.68 900.47	24892.76 24839.93	500.66 500.55	496.60 ← 492.55
8808159	1844.21	910.67	24924.74	495.47	495.68
8808175	1839.18	908.39	25210.41	495.18	495.12
88166	1817.58	909.69	24710.37	496.49	496.48
8808158	1840.98	908.32	24958.43	499.73	495.72
8808150	1853.79	816.03	25011.97	500.28	482.28
88225	1850.43	905.01	24700.82	500.82	492.13
88319	1854.26	912.13	24704.03	502.15	498.16
<del>88323</del>	<del>1806.67</del> 1849.38	<del>903.14</del> 908.29	<del>24777.27</del> 24719.43	<del>496.18</del> 496.13	<del>492.20</del> 492.15
8808149	1859.97	916.87	24814.01	500.66	496.65
88239	1853.46	906.93	24882.48	487.70	493.72
88238	1840.57	907.73	24745.81	497.75	493.77
8808179	1838.47	910.50	24986.63	503.24	495.28
88117	1845.05	903.75	24835.83	500.24	496.24
88146	1835.72	899.81	24621.16	500.24	496.25
88163	1811.56	907.85	24699.20	496.38	492.41
88213	1826.43	890.33	24689.38	496.35	492.37
88180	1852.52 1796.80	907.06 <del>902.22</del>	24785.41 <del>23435.12</del>	500.26 <del>500.11</del>	493.62 <del>492.17</del>
8808154	1844.27	915.37	25200.24	500.21	492.19

8808157	1843.55	913.42	25021.84	489.13	495.83
<del>233</del>	<del>1806.67</del>	<del>903.14</del>	<del>24779.27</del>	<del>496.14</del>	<del>492.20</del>
88223	1843.52	903.06	24704.52	496.13	492.30
				500.23	
8808147	1851.50	912.14	24932.51	503.51	495.51