

N90 FaxGram

New York TRACON Facsimile

Facility Management
Loretta J. Martin – Air Traffic Manager
Jeffrey D. Clarke – Assistant Air Traffic Manager

DATE: 9/12/01

TO: _____ ROUTING _____
RON RUBBERI
AAR BLANK

FROM _____ ROUTING _____
ED CARLICK

PHONE: _____

PHONE: 516 683-2940

FAX: 718-553-2513
3380

FAX QA: _____

REMARKS:

CONFIDENTIAL

EYES ONLY

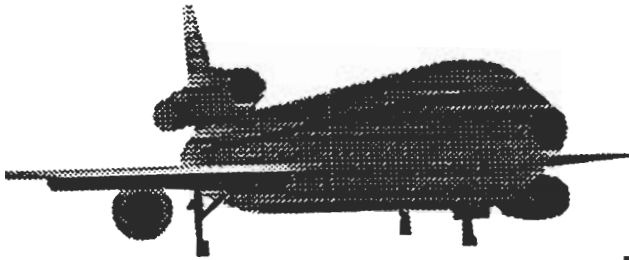
ERIT

9/11/01

PLOTS + DATA

UAL 175 + AAL 11

NUMBER OF PAGES INCLUDING COVER SHEET: 23



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New York TRACON Facsimile

Facility Management
Loretta J. Martin – Air Traffic Manager
Jeffrey D. Clarke – Assistant Air Traffic Manager

DATE: 9/12/01

TO: DOUG GOULD ROUTING AAT-200

FROM ED GARLICK ROUTING

PHONE: 202-767-7010

PHONE: 516-683-2940

FAX: 202-767-7389

FAX QA: 516-683-2945

REMARKS:

*CONFIDENTIAL
EYES ONLY*

ERIT PLOT + DATA 9/11/01

UAL 175

AAL 11

NUMBER OF PAGES INCLUDING COVER SHEET: 23

TRANSMISSION VERIFICATION REPORT

TIME : 09/12/2001 11:16

DATE, TIME	09/12 11:09
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RESULT	OK
MODE	STANDARD ECM

TRANSMISSION VERIFICATION REPORT

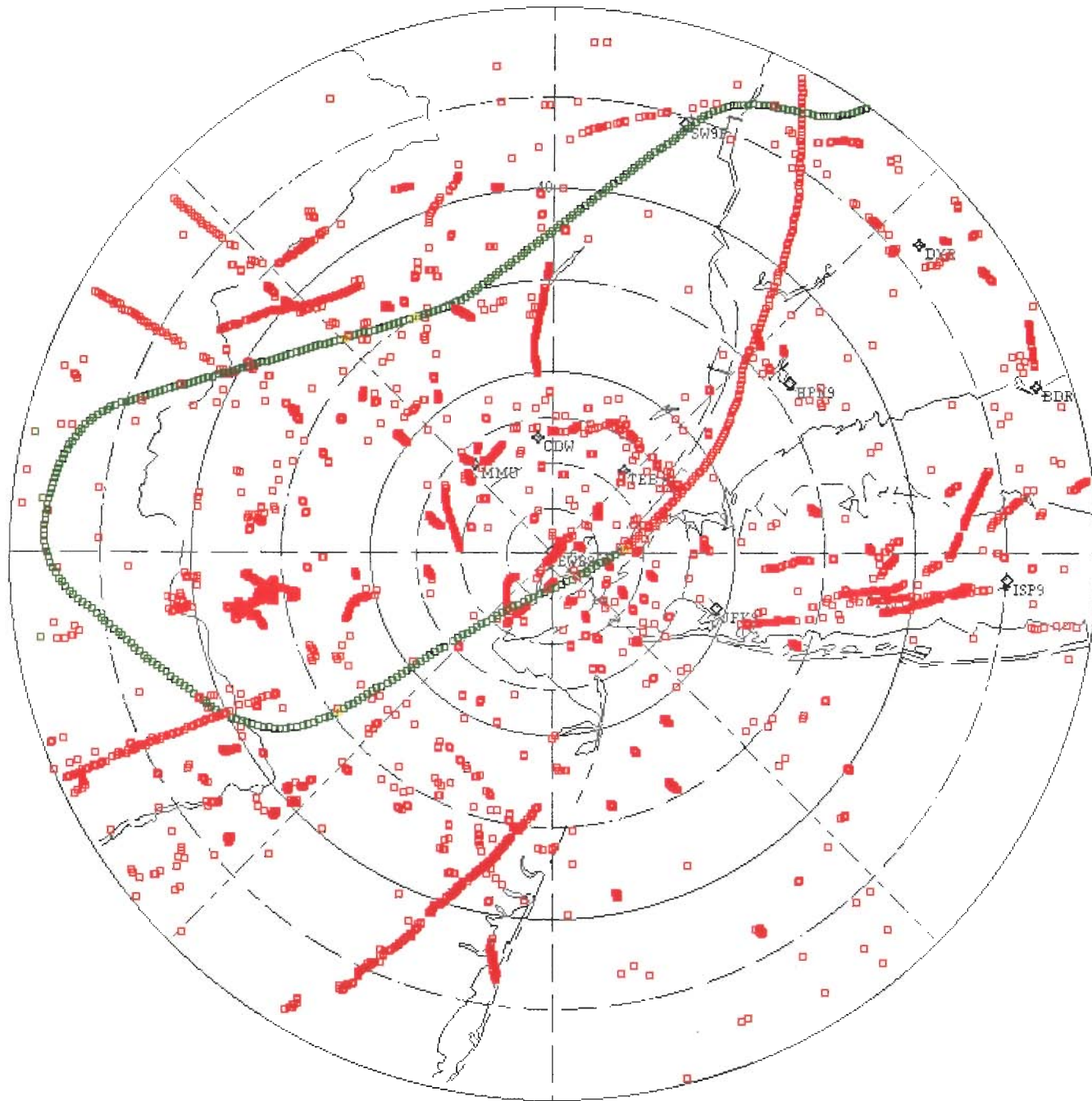
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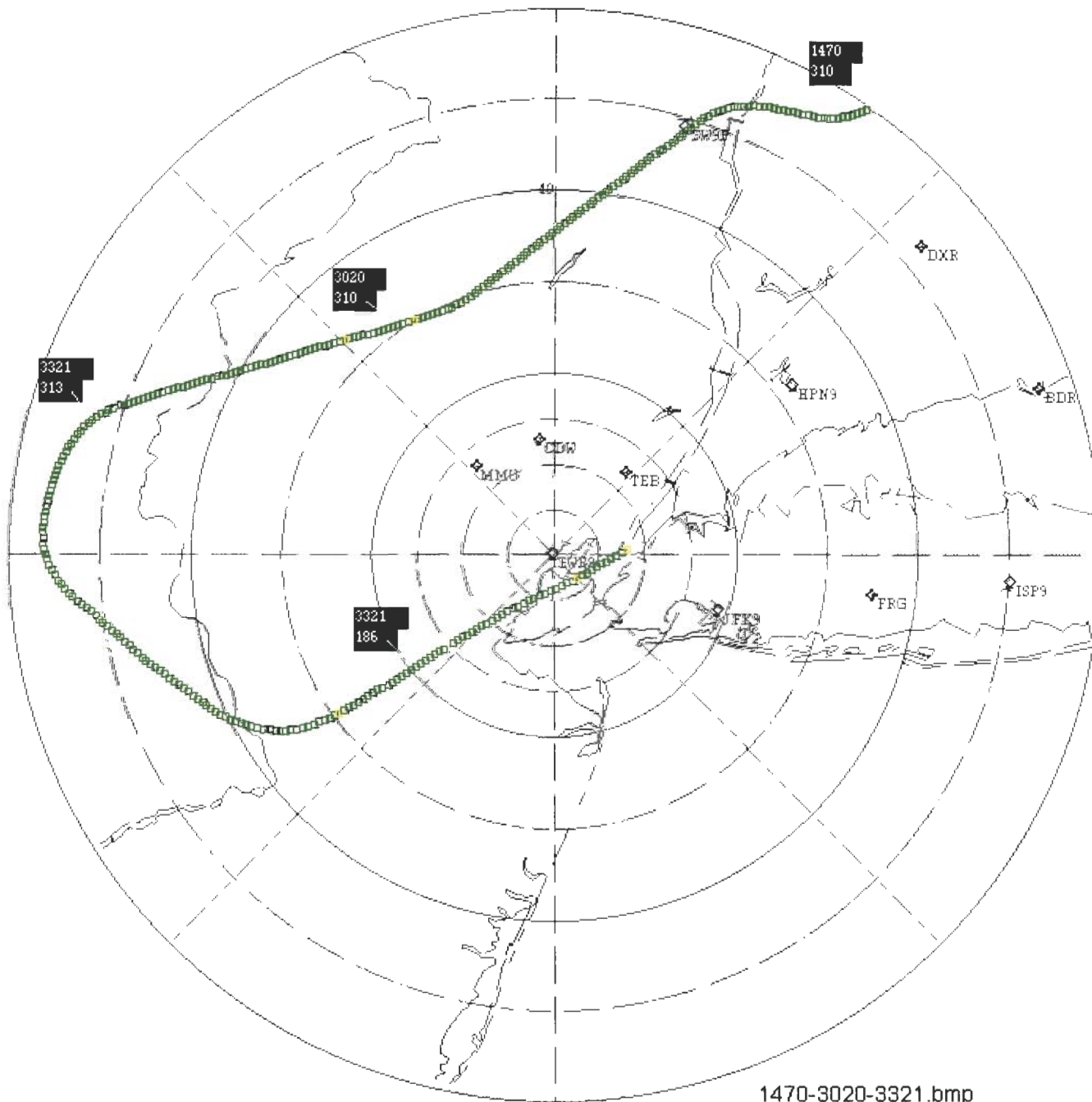
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MODE	STANDARD ECM



Radar + Beacon

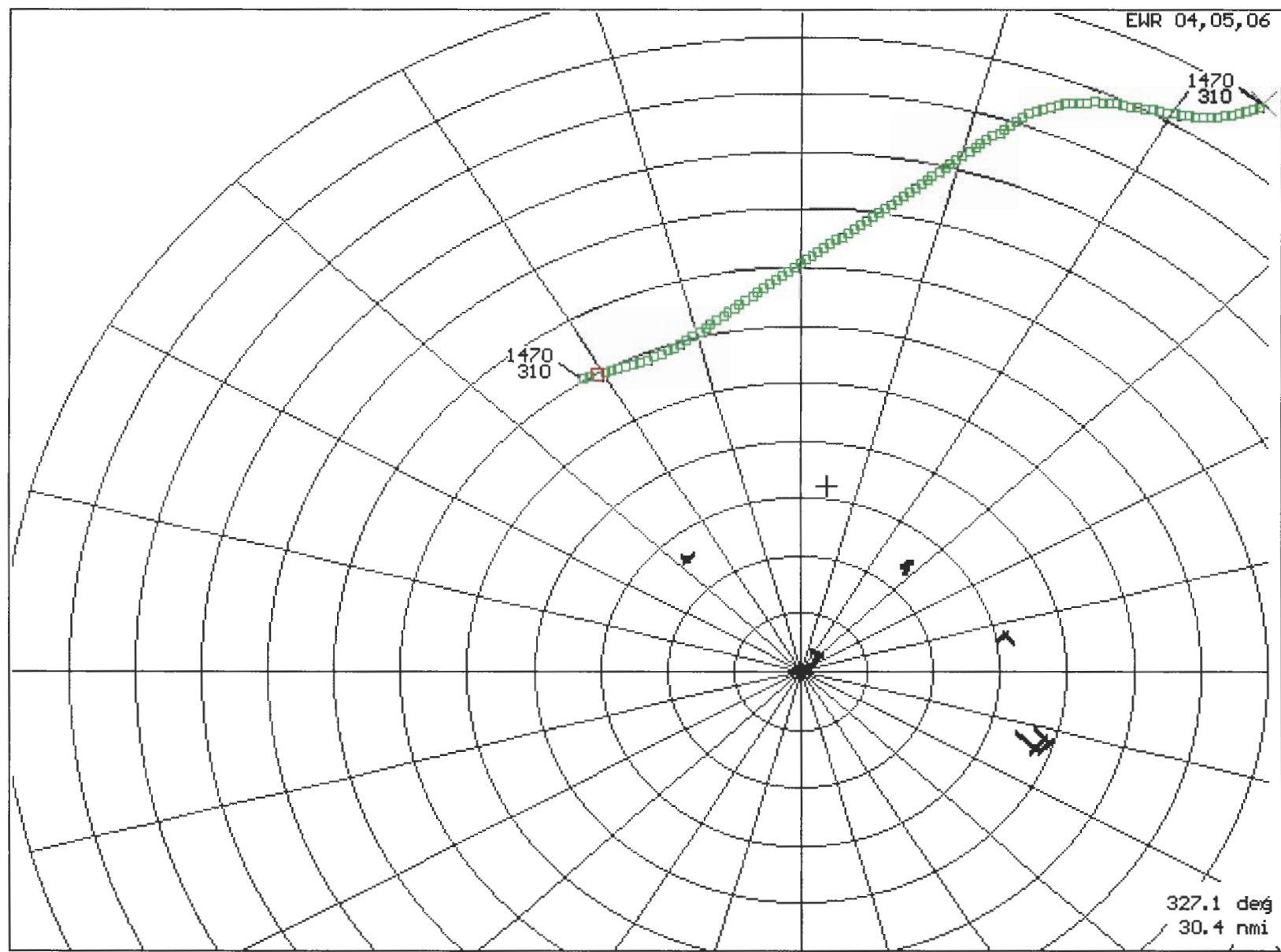


1470-3020-3321.bmp

(EWR Radar)

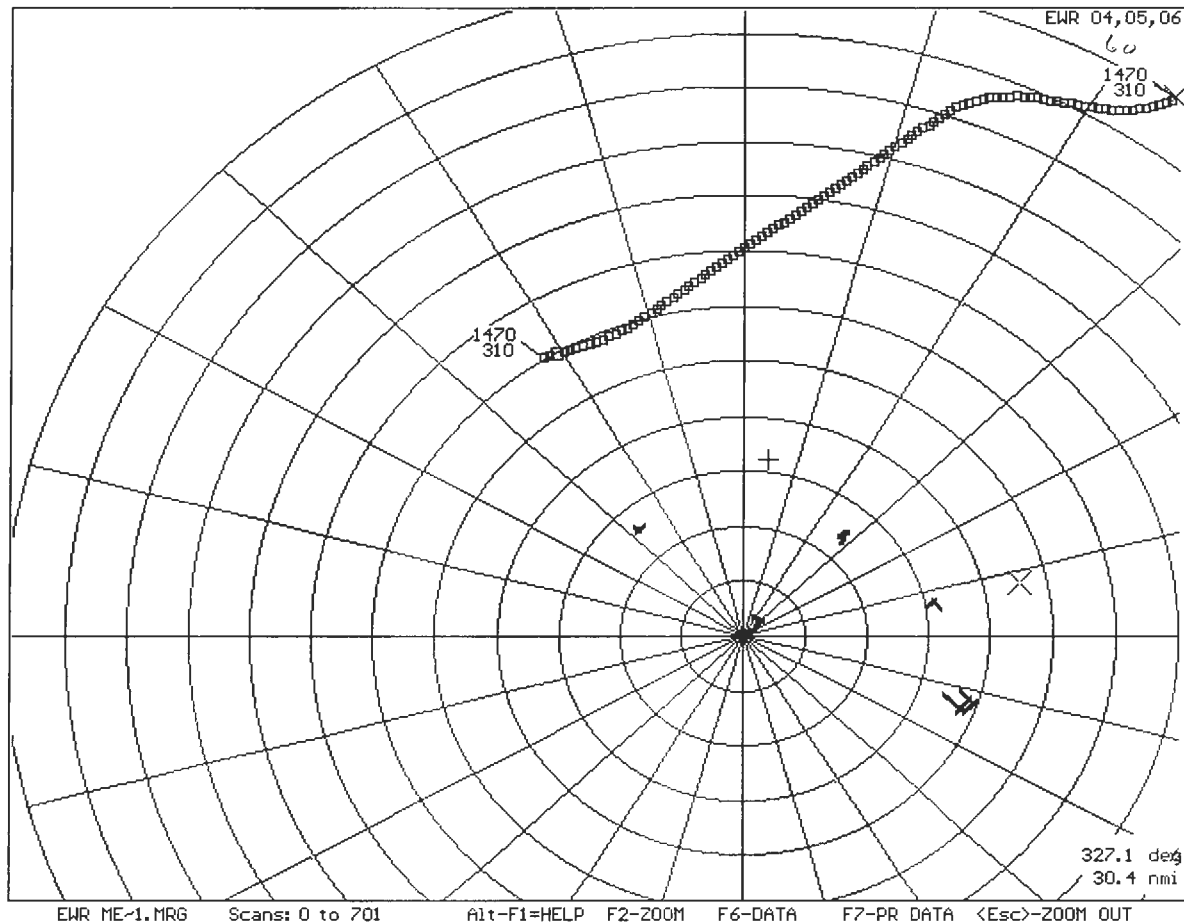
Beacon Only Plot

1A



FWR MF-1.MRG Scans: 0 to 701 Alt-F1=HF1 P F2-700M F6-DATA F7-PR DATA <F<>-700M NIT

1470 - EWR. BMP



1470 - EWR .bmp

CD RECORD 09/11/01 001 002 003 JFK 004 005 006 EWR 009 010 011 SWF 012 013 014 I

SCAN	MSG ID	RANGE	AZ	E M 3/A G	M M 3 3 V X	ALT / 100	M C V	M M 2 2 CODE V X	S P I T I	A R P I	C P I T E F	H T E F	C N	IO CH #	TIME	DELTA TIME
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110	RB	58/21	390	1470	3	310	3	0000	0	7	28			6	12:38:28.9	4.6
111	RB	57/60	386	1470	3	310	3	0000	0	7	28			5	12:38:33.5	4.6
112	RB	57/36	381	1470	3	310	3	0000	0	7	28			5	12:38:38.1	4.6
113	RB	57/13	377	1470	3	310	3	0000	0	7	28			5	12:38:42.8	4.7
114	RB	56/56	372	1470	3	310	3	0000	0	7	28			4	12:38:47.4	4.6
115	RB	56/37	366	1470	3	310	3	0000	0	5	28			6	12:38:52.0	4.6
116	RB	56/20	361	1470	3	310	3	0000	0	6	28			6	12:38:56.6	4.6
117	RB	56/ 5	355	1470	3	310	3	0000	0	7	28			5	12:39:01.2	4.6
118	RB	55/56	349	1470	3	310	3	0000	0	7	28			4	12:39:05.8	4.6
119	RB	55/45	343	1470	3	310	3	0000	0	7	28			5	12:39:10.4	4.6
120	RB	55/33	336	1470	3	310	3	0000	0	6	28			4	12:39:15.0	4.6
121	RB	55/23	330	1470	3	310	3	0000	0	5	28			6	12:39:19.7	4.7
122	RB	55/12	324	1470	3	310	3	0000	0	7	28			5	12:39:24.3	4.6
123	RB	55/ 2	318	1470	3	310	3	0000	0	6	28			5	12:39:28.9	4.6
124	RB	54/56	311	1470	3	310	3	0000	0	6	28			6	12:39:33.5	4.6
125	RB	54/46	305	1470	3	310	3	0000	0	6	28			5	12:39:38.1	4.6
126	RB	54/37	299	1470	3	310	3	0000	0	6	28			5	12:39:42.7	4.6
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128	RB	54/18	286	1470	3	310	3	0000	0	7	28			6	12:39:51.9	4.6
129	RB	54/ 6	280	1470	3	310	3	0000	0	7	28			6	12:39:56.5	4.6
130	RB	53/57	274	1470	3	310	3	0000	0	7	28			4	12:40:01.2	4.7
131	RB	53/42	268	1470	3	310	3	0000	0	6	28			5	12:40:05.8	4.6
132	RB	53/26	261	1470	3	310	3	0000	0	5	28			6	12:40:10.4	4.6
133	RB	53/ 9	255	1470	3	310	3	0000	0	7	28			4	12:40:15.0	4.6
134	RB	52/55	250	1470	3	310	3	0000	0	7	28			5	12:40:19.6	4.6
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136	RB	52/13	238	1470	3	310	3	0000	0	7	28			4	12:40:28.8	4.6
137	RB	51/55	233	1470	3	310	3	0000	0	7	28			6	12:40:33.4	4.6
138	RB	51/31	228	1470	3	310	3	0000	0	7	28			6	12:40:38.1	4.7
139	RB	51/ 5	222	1470	3	310	3	0000	0	4	28			5	12:40:42.7	4.6
140	RB	50/43	218	1470	3	310	3	0000	0	7	28			6	12:40:47.3	4.6
141	RB	50/15	213	1470	3	310	3	0000	0	7	28			4	12:40:51.9	4.6
142	RB	49/50	209	1470	3	310	3	0000	0	7	28			6	12:40:56.5	4.6
143	RB	49/20	205	1470	3	310	3	0000	0	7	28			5	12:41:01.1	4.6
144	RB	48/54	201	1470	3	310	3	0000	0	7	28			5	12:41:05.7	4.6
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147	RB	47/31	187	1470	3	310	3	0000	0	7	28			4	12:41:19.6	4.7
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149	RB	46/37	178	1470	3	310	3	0000	0	7	28			4	12:41:28.8	4.6
150	RB	46/ 8	173	1470	3	310	3	0000	0	6	28			5	12:41:33.4	4.6
151	RB	45/44	168	1470	3	310	3	0000	0	7	28			5	12:41:38.0	4.6
152	RB	45/15	163	1470	3	310	3	0000	0	7	28			5	12:41:42.6	4.6
153	RB	44/51	158	1470	3	310	3	0000	0	7	28			6	12:41:47.2	4.6
154	RB	44/23	153	1470	3	310	3	0000	0	7	28			6	12:41:51.8	4.6
155	RB	43/58	147	1470	3	310	3	0000	0	7	28			4	12:41:56.5	4.7
156	RB	43/31	142	1470	3	310	3	0000	0	7	28			5	12:42:01.1	4.6

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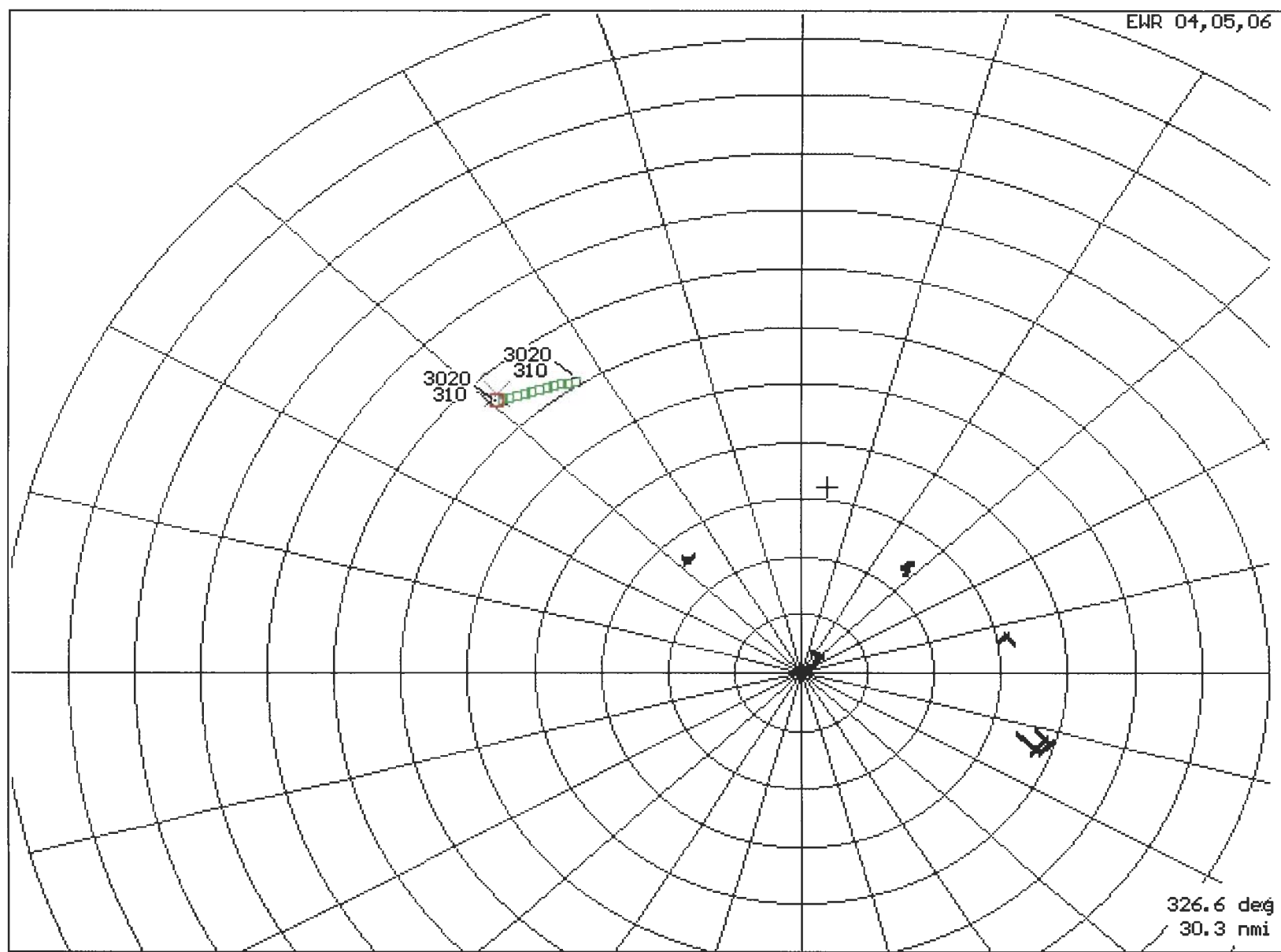
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158	RB	42/40	131		1470	3		310	3	0000	0		6		28			5	12:42:10.3	4.6
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160	RB	41/49	120		1470	3		310	3	0000	0		7		28			6	12:42:19.5	4.6
161	RB	41/23	113		1470	3		310	3	0000	0		7		28			5	12:42:24.1	4.6
162	RB	40/60	108		1470	3		310	3	0000	0		6		28			5	12:42:28.7	4.6
163	RB	40/34	101		1470	3		310	3	0000	0		7		28			4	12:42:33.3	4.6
164	RB	40/ 8	94		1470	3		310	3	0000	0		7		28			6	12:42:37.9	4.6
165	RB	39/46	89		1470	3		310	3	0000	0		6		28			5	12:42:42.6	4.7
166	RB	39/20	82		1470	3		310	3	0000	0		7		28			6	12:42:47.1	4.5
167	RB	38/59	75		1470	3		310	3	0000	0		6		28			4	12:42:51.8	4.7
168	RB	38/34	69		1470	3		310	3	0000	0		7		28			5	12:42:56.4	4.6
169	RB	38/ 9	61		1470	3		310	3	0000	0		5		28			4	12:43:01.0	4.6
170	RB	37/49	54		1470	3		310	3	0000	0		6		28			4	12:43:05.6	4.6
171	RB	37/25	46		1470	3		310	3	0000	0		7		28			4	12:43:10.2	4.6
172	RB	37/ 1	39		1470	3		310	3	0000	0		7		28			6	12:43:14.8	4.6
173	RB	36/42	32		1470	3		310	3	0000	0		7		28			6	12:43:19.4	4.6
174	RB	36/18	24		1470	3		310	3	0000	0		6		28			4	12:43:24.0	4.6
175	RB	35/60	16		1470	3		310	3	0000	0		6		28			6	12:43:28.6	4.6
176	RB	35/37	8		1470	3		310	3	0000	0		7		28			6	12:43:33.3	4.7
177	RB	35/15	0		1470	3		310	3	0000	0		6		28			6	12:43:37.9	4.6
178	RB	34/57	4087		1470	3		310	3	0000	0		6		28			4	12:43:42.5	4.6
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182	RB	33/37	4052		1470	3		310	3	0000	0		6		28			6	12:44:00.9	4.6
183	RB	33/17	4042		1470	3		310	3	0000	0		7		28			6	12:44:05.5	4.6
184	RB	32/61	4033		1470	3		310	3	0000	0		7		28			4	12:44:10.1	4.6
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186	RB	32/23	4014		1470	3		310	3	0000	0		7		28			5	12:44:19.3	4.6
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192	RB	30/49	3951		1470	3		310	3	0000	0		7		28			4	12:44:47.0	4.6
193	RB	30/35	3941		1470	3		310	3	0000	0		7		28			5	12:44:51.6	4.6
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196	RB	29/57	3906		1470	3		310	3	0000	0		7		28			5	12:45:05.4	4.6
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204	RB	29/26	3806		1470	3		310	3	0000	0		7		28			6	12:45:42.2	4.6
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1E

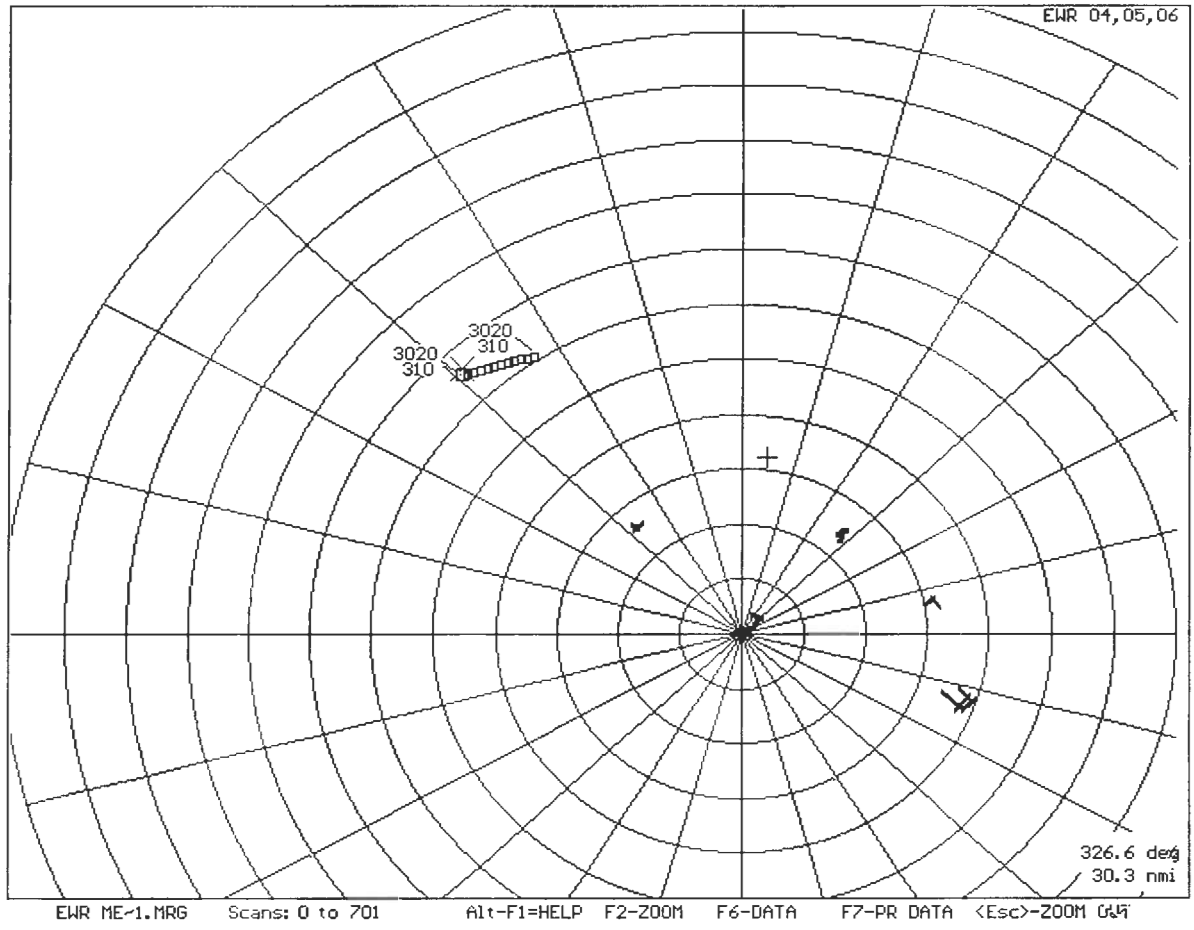
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SCAN	MSG	RANGE	AZ	E M G	3/A CODE	M 3 V	M 3 X	ALT /	100	M 3 V	M2 CODE	2 V	2 X	S P I	A R T	C P I	H I T	C N T	IO CH #	TIME	DELTA TIME
207	RB	29/43	3769		1470	3		310	3	0000	0			6	28			5	12:45:56.0	4.6	
208	RB	29/50	3758		1470	3		310	3	0000	0			6	28			4	12:46:00.6	4.6	
209	BO	29/59	3745		1470	3		310	3	0000	0			7	28			6	12:46:05.2	4.6	
210	RB	30/ 4	3733		1470	3		310	3	0000	0			4	28			6	12:46:09.8	4.6	
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7A



3020_gwl.bmp



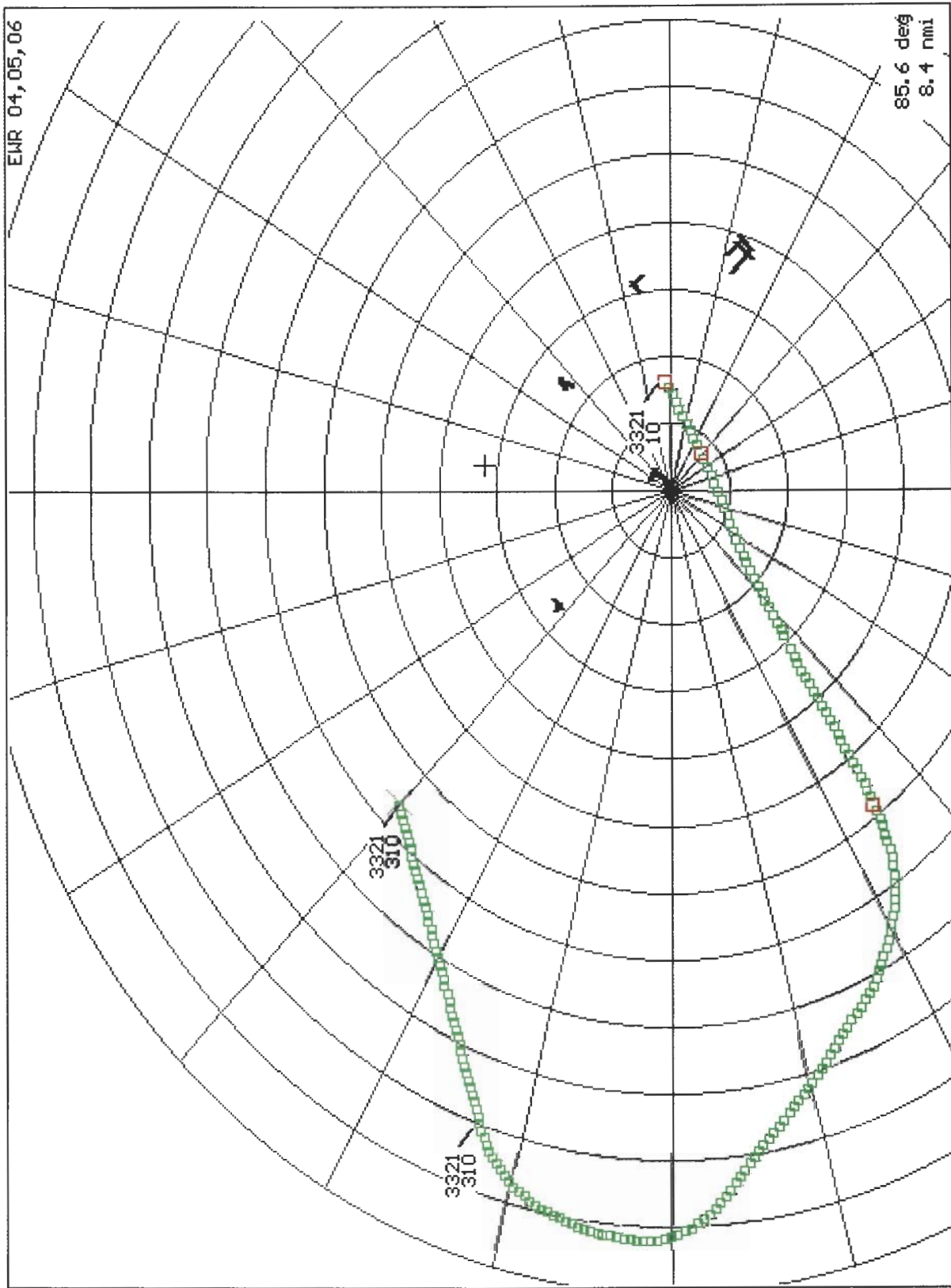
3020 - EWR - bmp

CD RECORD 09/11/01 001 002 003 JFK 004 005 006 EWR 009 010 011 SWF 012 013 014 I

SCAN	MSG	RANGE	AZ	E M G	3/A CODE	M 3 V	M 3 X	ALT /	M 100	M C V	M2 CODE	2 V	2 X	S P I	A R T	C P I	H I T	C N T	IO CH #	TIME	DELTA TIME
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213	RB	30/36	3698	3020	3	310	3	0000	0	6	28	6	12:46:23.7	4.7							
214	RB	30/48	3688	3020	3	310	3	0000	0	7	28	6	12:46:28.3	4.6							
215	RB	30/60	3676	3020	3	310	3	0000	0	7	28	4	12:46:32.9	4.6							
216	RB	31/ 9	3665	3020	3	310	3	0000	0	7	28	6	12:46:37.5	4.6							
217	RB	31/23	3654	3020	3	310	3	0000	0	7	28	4	12:46:42.1	4.6							
218	RB	31/38	3643	3020	3	310	3	0000	0	7	28	5	12:46:46.7	4.6							
219	RB	31/53	3632	3020	3	310	3	0000	0	7	28	6	12:46:51.3	4.6							
220	RB	32/ 4	3622	3020	3	310	3	0000	0	6	28	5	12:46:55.9	4.6							
221	RB	32/20	3611	3020	3	310	3	0000	0	6	28	5	12:47:00.5	4.6							
222	RB	32/36	3601	3020	3	310	3	0000	0	7	28	5	12:47:05.1	4.6							
223	BO	32/53	3592	3020	3	310	3	0000	0	7	28	5	12:47:09.7	4.6							

3A

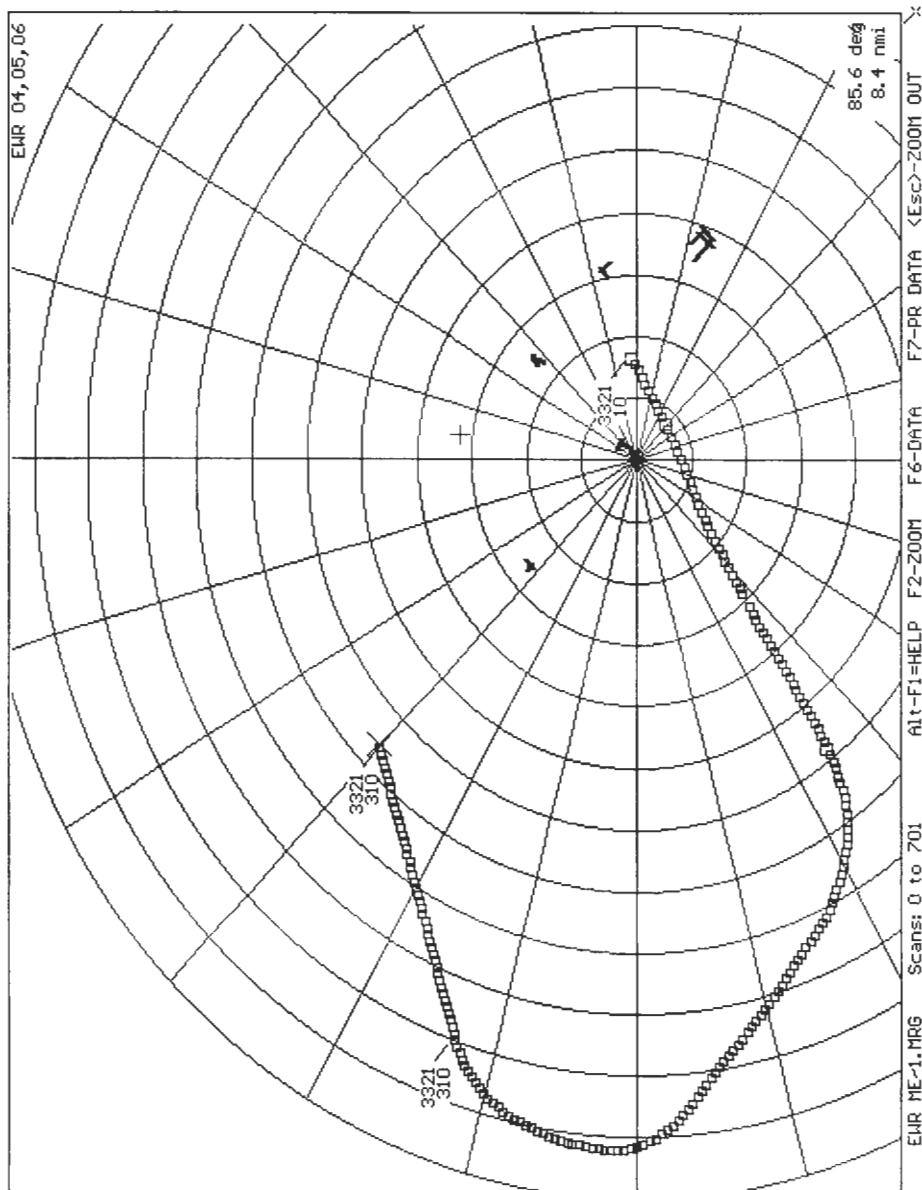
EUR 04, 05, 06



85.6 deg
8.4 nmi

FUR MF-1. MDRG Scans 0 to 701 Alt-F1=HF1 P F7-70NM F6-DATA F7-PR DATA <F6>-70NM NUT

3321 EUR. BMP



ARTS TIME ≈ ERIT + 1:32"

30

CD RECORD 09/11/01 001 002 003 JFK 004 005 006 EWR 009 010 011 SWF 012 013 014 I

SCAN	MSG ID	RANGE	AZ	E M G	M 3/A CODE	M 3 V	ALT 3 / X	M C V	M M 2 CODE	M M 2 V X	S P I	A R T	C P I	H T E	C T N	IO CH #	ERIT TIME	DELTA TIME
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225	RB	33/24	3572		3321	3		310	3	0000	0		6	28		5	12:47:18.9	4.6
226	RB	33/42	3563		3321	3		310	3	0000	0		7	28		6	12:47:23.5	4.6
227	RB	33/61	3554		3321	3		310	3	0000	0		7	28		5	12:47:28.2	4.7
228	RB	34/16	3545		3321	3		310	3	0000	0		7	28		4	12:47:32.8	4.6
229	RB	34/35	3536		3321	3		310	3	0000	0		7	28		6	12:47:37.4	4.6
230	RB	34/55	3527		3321	3		310	3	0000	0		7	28		5	12:47:42.0	4.6
230	RB	35/11	3519		3321	3		310	3	0000	0		6	28		6	12:47:46.6	4.6
231	RB	35/32	3510		3321	3		310	3	0000	0		7	28		5	12:47:51.2	4.6
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233	RB	36/10	3493		3321	3		310	3	0000	0		5	28		5	12:48:00.4	4.6
234	RB	36/32	3485		3321	3		310	3	0000	0		7	28		5	12:48:05.0	4.6
235	RB	36/54	3477		3321	3		310	3	0000	0		6	28		4	12:48:09.6	4.6
236	RB	37/12	3469		3321	3		310	3	0000	0		6	28		5	12:48:14.2	4.6
237	RB	37/35	3462		3321	3		310	3	0000	0		7	28		5	12:48:18.9	4.7
238	RB	37/58	3454		3321	3		310	3	0000	0		7	28		5	12:48:23.5	4.6
239	RB	38/17	3448		3321	3		310	3	0000	0		7	28		6	12:48:28.1	4.6
240	RB	38/41	3440		3321	3		310	3	0000	0		7	28		4	12:48:32.7	4.6
241	RB	39/ 1	3433		3321	3		310	3	0000	0		6	28		6	12:48:37.3	4.6
242	RB	39/25	3426		3321	3		310	3	0000	0		7	28		6	12:48:41.9	4.6
243	RB	39/50	3419		3321	3		310	3	0000	0		6	28		4	12:48:46.5	4.6
244	RB	40/11	3413		3321	3		310	3	0000	0		7	28		5	12:48:51.1	4.6
245	RB	40/36	3406		3321	3		310	3	0000	0		7	28		4	12:48:55.7	4.6
246	RB	40/61	3400		3321	3		310	3	0000	0		6	28		6	12:49:00.4	4.7
247	RB	41/23	3394		3321	3		310	3	0000	0		7	28		4	12:49:05.0	4.6
248	RB	41/48	3388		3321	3		310	3	0000	0		6	28		6	12:49:09.6	4.6
249	RB	42/11	3381		3321	3		310	3	0000	0		6	28		5	12:49:14.2	4.6
250	RB	42/37	3375		3321	3		310	3	0000	0		7	28		6	12:49:18.8	4.6
251	RB	43/ 0	3370		3321	3		310	3	0000	0		6	28		6	12:49:23.4	4.6
252	RB	43/27	3364		3321	3		310	3	0000	0		7	28		4	12:49:28.0	4.6
253	RB	43/53	3359		3321	3		310	3	0000	0		7	28		4	12:49:32.6	4.6
254	RB	44/16	3353		3321	3		310	3	0000	0		7	28		4	12:49:37.3	4.7
255	RB	44/44	3348		3321	3		310	3	0000	0		7	28		4	12:49:41.9	4.6
256	RB	45/ 7	3343		3321	3		310	3	0000	0		7	28		5	12:49:46.5	4.6
257	RB	45/35	3338		3321	3		310	3	0000	0		7	28		6	12:49:51.1	4.6
258	RB	45/62	3333		3321	3		310	3	0000	0		7	28		6	12:49:55.7	4.6
259	RB	46/27	3327		3321	3		310	3	0000	0		7	28		6	12:50:00.3	4.6
260	RB	46/55	3323		3321	3		310	3	0000	0		7	28		5	12:50:04.9	4.6
261	RB	47/19	3318		3321	3		310	3	0000	0		7	28		4	12:50:09.6	4.7
262	RB	47/47	3313		3321	3		310	3	0000	0		7	28		4	12:50:14.2	4.6
263	RB	48/12	3309		3321	3		310	3	0000	0		7	28		5	12:50:18.8	4.6
264	RB	48/40	3304		3321	3		310	3	0000	0		7	28		6	12:50:23.4	4.6
265	RB	49/ 5	3299		3321	3		310	3	0000	0		7	28		5	12:50:28.0	4.6
266	RB	49/34	3295		3321	3		310	3	0000	0		7	28		6	12:50:32.6	4.6
267	RB	49/63	3291		3321	3		310	3	0000	0		7	28		6	12:50:37.2	4.6
268	RB	50/28	3287		3321	3		310	3	0000	0		7	28		5	12:50:41.8	4.6
269	RB	50/56	3282		3321	3		311	3	0000	0		7	28		5	12:50:46.5	4.7
270	RB	51/19	3277		3321	3		311	3	0000	0		6	28		5	12:50:51.1	4.6
271	RB	51/44	3272		3321	3		311	3	0000	0		6	28		6	12:50:55.7	4.6
272	RB	52/ 5	3267		3321	3		312	3	0000	0		7	28		4	12:51:00.3	4.6

CD RECORD 09/11/01 001 002 003 JFK 004 005 006 EWR 009 010 011 SWF 012 013 014 I

SCAN	MSG	RANGE	AZ	E M G	3/A CODE	M 3 V	M 3 X	ALT / 100	M C V	M2 CODE	M 2 V	M 2 X	S P I	A R T	C P I	H T T	C T E	IO N F #	TIME	DELTA TIME
273	RB	52/28	3262	3321	3	312	3	0000	0	6	28	5	12:51:04.9	4.6						
274	RB	52/49	3256	3321	3	313	3	0000	0	7	28	6	12:51:09.5	4.6						
275	RB	53/ 5	3250	3321	3	314	3	0000	0	7	28	5	12:51:14.1	4.6						
276	RB	53/25	3244	3321	3	315	3	0000	0	7	28	5	12:51:18.7	4.6						
277	RB	53/43	3238	3321	3	315	3	0000	0	7	28	6	12:51:23.3	4.6						
278	RB	53/59	3232	3321	3	316	3	0000	0	4	28	4	12:51:27.9	4.6						
279	RB	54/10	3225	3321	3	317	3	0000	0	7	28	5	12:51:32.6	4.7						
280	RB	54/24	3219	3321	3	318	3	0000	0	7	28	5	12:51:37.2	4.6						
281	RB	54/37	3213	3321	3	320	3	0000	0	7	28	5	12:51:41.8	4.6						
282	RB	54/48	3206	3321	3	322	3	0000	0	7	28	5	12:51:46.4	4.6						
283	RB	54/58	3199	3321	3	324	3	0000	0	6	28	6	12:51:51.0	4.6						
284	RB	55/ 4	3193	3321	3	326	3	0000	0	6	28	4	12:51:55.6	4.6						
285	RB	55/12	3186	3321	3	327	3	0000	0	7	28	5	12:52:00.2	4.6						
286	RB	55/20	3180	3321	3	328	3	0000	0	6	28	6	12:52:04.8	4.6						
287	RB	55/28	3173	3321	3	328	3	0000	0	7	28	4	12:52:09.5	4.7						
288	RB	55/35	3167	3321	3	328	3	0000	0	7	28	6	12:52:14.0	4.5						
289	RB	55/42	3160	3321	3	329	3	0000	0	7	28	5	12:52:18.7	4.7						
290	RB	55/47	3153	3321	3	329	3	0000	0	7	28	4	12:52:23.3	4.6						
291	RB	55/52	3146	3321	3	330	3	0000	0	7	28	5	12:52:27.9	4.6						
292	RB	55/56	3140	3321	3	330	3	0000	0	7	28	6	12:52:32.5	4.6						
293	RB	55/60	3133	3321	3	331	3	0000	0	7	28	6	12:52:37.1	4.6						
294	RB	56/ 0	3126	3321	3	331	3	0000	0	7	28	4	12:52:41.7	4.6						
295	RB	56/ 3	3119	3321	3	332	3	0000	0	7	28	6	12:52:46.3	4.6						
296	RB	56/ 6	3112	3321	3	333	3	0000	0	7	28	4	12:52:51.0	4.7						
297	RB	56/ 9	3105	3321	3	333	3	0000	0	7	28	6	12:52:55.5	4.5						
298	RB	56/10	3099	3321	3	334	3	0000	0	6	28	5	12:53:00.2	4.7						
299	RB	56/ 8	3092	3321	3	335	3	0000	0	7	28	5	12:53:04.8	4.6						
300	RB	56/ 5	3085	3321	3	335	3	0000	0	7	28	6	12:53:09.4	4.6						
301	RB	55/63	3078	3321	3	335	3	0000	0	7	28	6	12:53:14.0	4.6						
302	RB	55/54	3071	3321	3	334	3	0000	0	6	28	4	12:53:18.6	4.6						
303	RB	55/42	3065	3321	3	333	3	0000	0	7	28	5	12:53:23.2	4.6						
304	RB	55/26	3057	3321	3	331	3	0000	0	7	28	6	12:53:27.8	4.6						
305	RB	55/10	3051	3321	3	328	3	0000	0	6	28	6	12:53:32.4	4.6						
306	RB	54/54	3045	3321	3	326	3	0000	0	7	28	5	12:53:37.0	4.6						
307	RB	54/34	3037	3321	3	324	3	0000	0	7	28	4	12:53:41.6	4.6						
308	RB	54/11	3031	3321	3	322	3	0000	0	7	28	5	12:53:46.3	4.7						
309	RB	53/52	3025	3321	3	320	3	0000	0	7	28	4	12:53:50.9	4.6						
310	RB	53/26	3019	3321	3	319	3	0000	0	6	28	6	12:53:55.5	4.6						
311	RB	52/63	3013	3321	3	317	3	0000	0	7	28	6	12:54:00.1	4.6						
312	RB	52/34	3008	3321	3	315	3	0000	0	7	28	6	12:54:04.7	4.6						
313	RB	52/ 5	3002	3321	3	314	3	0000	0	7	28	6	12:54:09.3	4.6						
314	RB	51/40	2996	3321	3	312	3	0000	0	7	28	4	12:54:13.9	4.6						
315	RB	51/10	2991	3321	3	311	3	0000	0	7	28	4	12:54:18.6	4.7						
316	RB	50/46	2984	3321	3	310	3	0000	0	7	28	5	12:54:23.2	4.6						
317	RB	50/19	2978	3321	3	309	3	0000	0	5	28	5	12:54:27.8	4.6						
318	RB	49/56	2972	3321	3	308	3	0000	0	6	28	6	12:54:32.4	4.6						
319	RB	49/30	2966	3321	3	307	3	0000	0	7	28	6	12:54:37.0	4.6						
320	RB	49/ 5	2959	3321	3	305	3	0000	0	7	28	4	12:54:41.6	4.6						
321	RB	48/44	2953	3321	3	304	3	0000	0	6	28	6	12:54:46.2	4.6						
322	RB	48/20	2946	3321	3	302	3	0000	0	7	28	5	12:54:50.8	4.6						

CD RECORD 09/11/01 001 002 003 JFK 004 005 006 EWR 009 010 011 SWF 012 013 014 I

SCAN	MSG ID	RANGE	AZ	E M G	M 3/A CODE	M 3 V	M 3 X	ALT / 100	M C V	M M 2 CODE	M 2 V	M 2 X	S P I	A R T	C P I	H T E	C N F	IO CH #	TIME	DELTA TIME
323	RB	47/60	2940		3321	3		300	3	0000	0		7		28			6	12:54:55.4	4.6
324	RB	47/37	2932		3321	3		298	3	0000	0		5		28			6	12:55:00.0	4.6
325	RB	47/14	2925		3321	3		297	3	0000	0		7		28			4	12:55:04.6	4.6
326	RB	46/55	2918		3321	3		295	3	0000	0		5		28			6	12:55:09.2	4.6
327	RB	46/33	2911		3321	3		294	3	0000	0		6		28			6	12:55:13.8	4.6
328	RB	46/10	2903		3321	3		292	3	0000	0		7		28			4	12:55:18.4	4.6
329	RB	45/50	2896		3321	3		290	3	0000	0		7		28			5	12:55:23.1	4.7
330	RB	45/25	2889		3321	3		288	3	0000	0		6		28			5	12:55:27.7	4.6
331	RB	44/63	2882		3321	3		286	3	0000	0		7		28			4	12:55:32.3	4.6
332	RB	44/38	2875		3321	3		285	3	0000	0		6		28			5	12:55:36.9	4.6
333	RB	44/14	2867		3321	3		284	3	0000	0		7		28			4	12:55:41.5	4.6
334	RB	43/54	2859		3321	3		284	3	0000	0		5		28			6	12:55:46.1	4.6
335	RB	43/32	2851		3321	3		284	3	0000	0		6		28			6	12:55:50.7	4.6
336	RB	43/10	2844		3321	3		285	3	0000	0		7		28			6	12:55:55.3	4.6
337	RB	42/52	2836		3321	3		285	3	0000	0		6		28			6	12:56:00.0	4.7
338	RB	42/31	2828		3321	3		285	3	0000	0		6		28			6	12:56:04.5	4.5
339	RB	42/11	2820		3321	3		285	3	0000	0		7		28			5	12:56:09.2	4.7
340	RB	41/55	2811		3321	3		286	3	0000	0		7		28			6	12:56:13.8	4.6
341	RB	41/35	2802		3321	3		287	3	0000	0		7		28			5	12:56:18.4	4.6
342	RB	41/15	2794		3321	3		287	3	0000	0		7		28			5	12:56:23.0	4.6
343	RB	40/57	2786		3321	3		286	3	0000	0		6		28			5	12:56:27.6	4.6
344	RB	40/34	2778		3321	3		285	3	0000	0		6		28			5	12:56:32.2	4.6
345	RB	40/ 8	2771		3321	3		283	3	0000	0		7		28			4	12:56:36.8	4.6
346	RB	39/46	2763		3321	3		281	3	0000	0		6		28			4	12:56:41.4	4.6
347	RB	39/20	2756		3321	3		279	3	0000	0		7		28			6	12:56:46.0	4.6
348	RB	38/58	2748		3321	3		277	3	0000	0		7		28			4	12:56:50.7	4.7
349	RB	38/30	2740		3321	3		274	3	0000	0		7		28			5	12:56:55.3	4.6
350	RB	38/ 3	2733		3321	3		272	3	0000	0		7		28			6	12:56:59.9	4.6
351	RB	37/38	2726		3321	3		270	3	0000	0		7		28			5	12:57:04.5	4.6
352	RB	37/ 9	2718		3321	3		267	3	0000	0		7		28			5	12:57:09.1	4.6
353	RB	36/43	2711		3321	3		264	3	0000	0		7		28			5	12:57:13.7	4.6
354	RB	36/11	2704		3321	3		261	3	0000	0		6		28			4	12:57:18.3	4.6
355	RB	35/42	2698		3321	3		258	3	0000	0		6		28			5	12:57:22.9	4.6
356	RB	35/ 8	2692		3321	3		255	3	0000	0		7		28			6	12:57:27.5	4.6
357	RB	34/37	2686		3321	3		251	3	0000	0		7		28			6	12:57:32.1	4.6
358	RB	34/ 0	2681		3321	3		247	3	0000	0		7		28			6	12:57:36.7	4.6
359	RB	33/27	2676		3321	3		244	3	0000	0		7		28			4	12:57:41.4	4.7
360	RB	32/53	2672		3321	3		242	3	0000	0		7		28			5	12:57:46.0	4.6
361	RB	32/14	2669		3321	3		239	3	0000	0		7		28			6	12:57:50.6	4.6
362	RB	31/39	2666		3321	3		237	3	0000	0		7		28			5	12:57:55.2	4.6
363	RB	31/ 0	2661		3321	3		236	3	0000	0		7		28			4	12:57:59.8	4.6
364	RB	30/26	2659		3321	3		234	3	0000	0		7		28			6	12:58:04.4	4.6
365	RB	29/51	2657		3321	3		233	3	0000	0		7		28			6	12:58:09.1	4.7
366	BO	29/12	2654		3321	3		232	3	0000	0		7		28			5	12:58:13.7	4.6
367	RB	28/38	2653		3321	3		231	3	0000	0		7		28			6	12:58:18.3	4.6
368	RB	28/ 0	2650		3321	3		230	3	0000	0		7		28			5	12:58:22.9	4.6
369	RB	27/26	2648		3321	3		227	3	0000	0		7		28			5	12:58:27.5	4.6
370	RB	26/51	2647		3321	3		224	3	0000	0		7		28			4	12:58:32.1	4.6
371	RB	26/13	2646		3321	3		220	3	0000	0		7		28			4	12:58:36.8	4.7
372	RB	25/37	2643		3321	3		216	3	0000	0		7		28			6	12:58:41.4	4.6

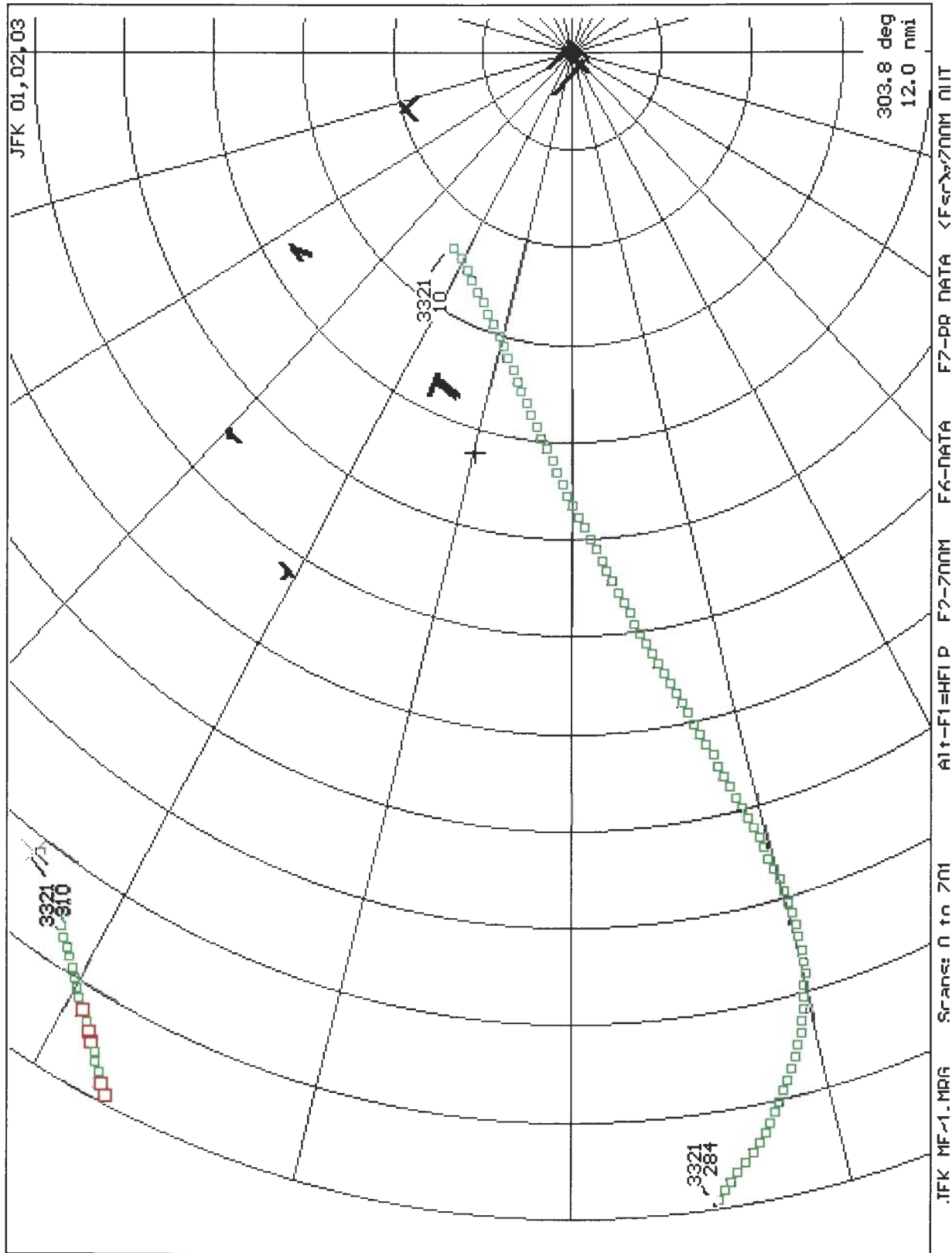
CD RECORD 09/11/01 001 002 003 JFK 004 005 006 EWR 009 010 011 SWF 012 013 014 I

SCAN	MSG ID	RANGE	AZ	E M 3/A G	M 3 V	M 3 X	ALT / 100	M C V	M2 CODE	M 2 V	M 2 X	S P I	A R T	C P I	H T E	C N F	IO CH #	TIME	DELTA TIME
373	RB	24/62	2641	3321	3		212	3	0000	0		7	28				6	12:58:46.0	4.6
374	RB	24/23	2640	3321	3		208	3	0000	0		7	28				5	12:58:50.6	4.6
375	RB	23/47	2638	3321	3		204	3	0000	0		7	28				4	12:58:55.2	4.6
376	RB	23/ 6	2636	3321	3		200	3	0000	0		7	28				5	12:58:59.8	4.6
377	RB	22/30	2634	3321	3		198	3	0000	0		7	28				4	12:59:04.4	4.6
378	RB	21/55	2632	3321	3		195	3	0000	0		7	28				5	12:59:09.0	4.6
379	RB	21/15	2630	3321	3		194	3	0000	0		7	28				4	12:59:13.7	4.7
380	RB	20/39	2628	3321	3		191	3	0000	0		7	28				5	12:59:18.3	4.6
381	RB	20/ 0	2626	3321	3		189	3	0000	0		7	28				5	12:59:22.9	4.6
382	RB	19/25	2623	3321	3		186	3	0000	0		7	28				6	12:59:27.5	4.6
383	RB	18/49	2621	3321	3		184	3	0000	0		7	28				5	12:59:32.1	4.6
384	RB	18/10	2619	3321	3		182	3	0000	0		7	28				5	12:59:36.7	4.6
385	RB	17/36	2616	3321	3		180	3	0000	0		7	28				4	12:59:41.4	4.7
386	RB	16/61	2613	3321	3		178	3	0000	0		7	28				5	12:59:46.0	4.6
387	RB	16/23	2610	3321	3		176	3	0000	0		7	28				6	12:59:50.6	4.6
388	RB	15/49	2605	3321	3		175	3	0000	0		7	28				4	12:59:55.2	4.6
390	RB	14/37	2595	3321	3		168	3	0000	0		7	28				5	13:00:04.4	9.2
391	RB	13/63	2590	3321	3		162	3	0000	0		7	28				6	13:00:09.0	4.6
392	RB	13/24	2584	3321	3		159	3	0000	0		7	28				4	13:00:13.6	4.6
393	RB	12/49	2577	3321	3		155	3	0000	0		7	28				5	13:00:18.2	4.6
394	RB	12/10	2568	3321	3		152	3	0000	0		7	28				6	13:00:22.8	4.6
395	RB	11/37	2560	3321	3		149	3	0000	0		7	28				4	13:00:27.5	4.7
396	RB	10/62	2550	3321	3		144	3	0000	0		7	28				4	13:00:32.1	4.6
397	RB	10/24	2539	3321	3		137	3	0000	0		7	28				5	13:00:36.6	4.5
398	RB	9/48	2526	3321	3		130	3	0000	0		7	28				5	13:00:41.3	4.7
399	RB	9/ 9	2512	3321	3		125	3	0000	0		7	28				5	13:00:45.8	4.5
400	RB	8/33	2496	3321	3		121	3	0000	0		7	28				5	13:00:50.5	4.7
401	RB	7/60	2475	3321	3		117	3	0000	0		7	28				6	13:00:55.0	4.5
402	RB	7/22	2451	3321	3		112	3	0000	0		7	28				5	13:00:59.6	4.6
403	RB	6/50	2421	3321	3		108	3	0000	0		7	28				5	13:01:04.2	4.6
404	RB	6/14	2385	3321	3		104	3	0000	0		7	28				6	13:01:08.8	4.6
405	RB	5/45	2342	3321	3		101	3	0000	0		7	28				4	13:01:13.4	4.6
406	RB	5/15	2290	3321	3		97	3	0000	0		7	28				6	13:01:17.9	4.5
407	RB	4/51	2227	3321	3		93	3	0000	0		4	28				6	13:01:22.4	4.5
408	RB	4/26	2152	3321	3		89	3	0000	0		7	28				6	13:01:27.0	4.6
409	RB	4/ 5	2063	3321	3		85	3	0000	0		7	28				5	13:01:31.5	4.5
410	RB	3/53	1961	3321	3		80	3	0000	0		7	28				5	13:01:36.0	4.5
411	RB	3/43	1847	3321	3		76	3	0000	0		7	28				6	13:01:40.5	4.5
412	RB	3/40	1728	3321	3		72	3	0000	0		7	28				4	13:01:45.0	4.5
413	RB	3/46	1614	3321	3		70	3	0000	0		7	28				5	13:01:49.5	4.5
414	BO	3/57	1509	3321	3		67	3	0000	0		7	28				6	13:01:54.0	4.5
415	RB	4/ 8	1417	3321	3		62	3	0000	0		6	28				5	13:01:58.5	4.5
415	RB	4/28	1337	3321	3		56	3	0000	0		7	28				4	13:02:03.0	4.5
416	RB	4/51	1267	3321	3		50	3	0000	0		7	28				4	13:02:07.6	4.6
417	RB	5/13	1208	3321	3		45	3	0000	0		7	28				6	13:02:12.1	4.5
418	RB	5/41	1157	3321	3		40	3	0000	0		7	28				5	13:02:16.7	4.6
419	RB	6/ 7	1114	3321	3		32	3	0000	0		7	28				6	13:02:21.2	4.5
420	RB	6/38	1078	3321	3		24	3	0000	0		6	28				6	13:02:25.8	4.6
421	RB	7/ 8	1045	3321	3		17	3	0000	0		6	28				5	13:02:30.4	4.6
422	RB	7/42	1017	3321	3		12	3	0000	0		6	28				4	13:02:35.0	4.6

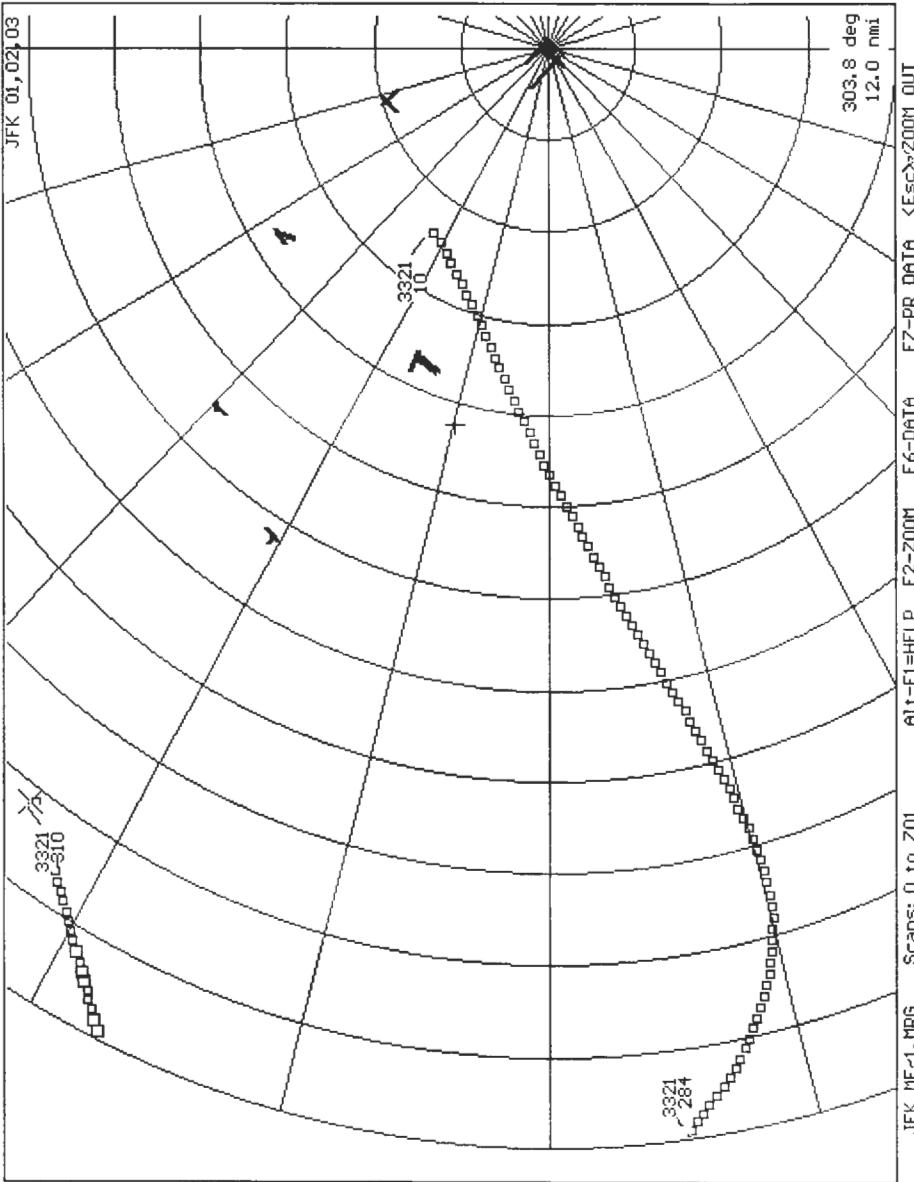
CD RECORD 09/11/01 001 002 003 JFK 004 005 006 EWR 009 010 011 SWF 012 013 014 I

SCAN	MSG	RANGE	AZ	E	M	M	ALT	M	M	S	A	C	H	C	IO	TIME	DELTA		
ID				M	3/A	3	3	/	C	M2	2	2	P	R	P	I	T	N	CH
				G	CODE	V	X	100	V	CODE	V	X	I	T	I	T	E	F	#

423	BO	8/12	989		3321	3		10	3	0000	0		7	28		6	13:02:39.6	4.6
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3321 - JFK.bmp off JFK sensor



3321-JFK . bnp

CD RECORD 09/11/01 001 002 003 JFK 004 005 006 EWR 009 010 011 SWF 012 013 014 I

SCAN	MSG ID	RANGE	AZ	E M G	3/A CODE	M 3 V	M 3 X	ALT / 100	M C V	M2 CODE	M 2 V	M 2 X	S P I	A R T	C P I	H T E	C N F	IO CH #	TIME	DELTA TIME
223	RB	50/47	3479	3321	3	310	3	0602	0	7	28	2	12:47:11.3	>99						
224	RB	51/ 5	3473	3321	3	310	3	0600	0	6	28	3	12:47:15.9	4.6						
225	RB	51/28	3468	3321	3	310	3	0600	0	5	28	3	12:47:20.5	4.6						
226	RB	51/51	3463	3321	3	310	3	0202	0	7	28	3	12:47:25.1	4.6						
227	RB	52/10	3457	3321	3	310	3	0202	0	7	28	1	12:47:29.7	4.6						
228	RB	52/33	3452	3321	3	310	3	0202	0	7	28	3	12:47:34.3	4.6						
229	RB	52/57	3446	3321	3	310	3	0600	0	7	28	2	12:47:38.9	4.6						
230	RB	53/16	3441	3321	3	310	3	0202	0	5	28	3	12:47:43.5	4.6						
231	RB	53/41	3436	3321	3	310	3	0202	0	6	28	2	12:47:48.2	4.7						
232	RB	54/ 1	3431	3321	3	310	3	0202	0	6	28	1	12:47:52.7	4.5						
233	RB	54/26	3426	3321	3	310	3	0200	0	7	28	1	12:47:57.4	4.7						
234	RB	54/50	3421	3321	3	310	3	0202	0	7	28	3	12:48:02.0	4.6						
235	RB	55/11	3416	3321	3	310	3	0202	0	6	28	2	12:48:06.6	4.6						
236	RB	55/36	3412	3321	3	310	3	0600	0	7	28	2	12:48:11.2	4.6						
237	RB	55/62	3408	3321	3	310	3	0202	0	7	28	1	12:48:15.8	4.6						
238	BO	56/23	3403	3321	3	310	3	0202	0	7	28	3	12:48:20.4	4.6						
239	RB	56/48	3397	3321	3	310	3	0202	0	5	28	1	12:48:25.0	4.6						
240	BO	57/10	3393	3321	3	310	3	0202	0	7	28	2	12:48:29.7	4.7						
241	BO	57/36	3389	3321	3	310	3	0200	0	7	28	1	12:48:34.3	4.6						
242	RB	57/62	3384	3321	3	310	3	0202	0	6	28	3	12:48:38.9	4.6						
243	RB	58/25	3381	3321	3	310	3	0600	0	7	28	3	12:48:43.5	4.6						
244	RB	58/51	3377	3321	3	310	3	0602	0	7	28	1	12:48:48.1	4.6						
245	BO	59/14	3373	3321	3	310	3	0202	0	7	28	2	12:48:52.7	4.6						
246	BO	59/41	3368	3321	3	310	3	0000	0	7	21	3	12:48:57.3	4.6						
336	RB	59/39	2983	3321	3	284	3	0200	0	7	28	3	12:55:52.4	>99						
337	RB	59/11	2978	3321	3	285	3	0600	0	7	28	2	12:55:57.1	4.7						
338	RB	58/47	2974	3321	3	285	3	0202	0	5	28	3	12:56:01.6	4.5						
339	RB	58/20	2969	3321	3	285	3	0202	0	7	28	3	12:56:06.3	4.7						
340	RB	57/57	2964	3321	3	286	3	0600	0	4	28	3	12:56:10.8	4.5						
341	RB	57/29	2958	3321	3	286	3	0200	0	7	28	3	12:56:15.4	4.6						
342	RB	57/ 2	2953	3321	3	287	3	0600	0	7	28	3	12:56:20.1	4.7						
343	RB	56/38	2948	3321	3	287	3	0202	0	7	28	1	12:56:24.7	4.6						
344	RB	56/ 9	2944	3321	3	286	3	0202	0	7	28	1	12:56:29.3	4.6						
345	RB	55/42	2939	3321	3	284	3	0600	0	7	28	2	12:56:33.9	4.6						
346	RB	55/10	2935	3321	3	282	3	0202	0	7	28	2	12:56:38.5	4.6						
347	RB	54/41	2931	3321	3	280	3	0202	0	6	28	3	12:56:43.2	4.7						
348	RB	54/ 8	2927	3321	3	278	3	0202	0	4	28	1	12:56:47.7	4.5						
349	RB	53/38	2923	3321	3	276	3	0200	0	5	28	2	12:56:52.4	4.7						
350	RB	53/ 5	2919	3321	3	274	3	0600	0	7	28	1	12:56:57.0	4.6						
351	RB	52/34	2916	3321	3	271	3	0202	0	7	28	2	12:57:01.6	4.6						
352	RB	51/63	2912	3321	3	269	3	0202	0	7	28	1	12:57:06.2	4.6						
353	RB	51/27	2909	3321	3	266	3	0600	0	7	28	1	12:57:10.9	4.7						
354	RB	50/54	2906	3321	3	263	3	0202	0	7	28	2	12:57:15.4	4.5						
355	RB	50/17	2904	3321	3	260	3	0202	0	7	28	2	12:57:20.1	4.7						
356	RB	49/42	2902	3321	3	257	3	0202	0	7	28	2	12:57:24.7	4.6						
357	RB	49/ 3	2899	3321	3	253	3	0202	0	7	28	3	12:57:29.3	4.6						
358	RB	48/27	2898	3321	3	250	3	0600	0	7	28	1	12:57:33.9	4.6						
359	RB	47/51	2897	3321	3	246	3	0600	0	7	28	3	12:57:38.5	4.6						
360	RB	47/10	2897	3321	3	243	3	0600	0	7	28	2	12:57:43.1	4.6						
361	RB	46/33	2897	3321	3	241	3	0600	0	7	28	3	12:57:47.7	4.6						

CD RECORD 09/11/01 001 002 003 JFK 004 005 006 EWR 009 010 011 SWF 012 013 014 I

SCAN	MSG ID	RANGE	AZ	E M 3/A G	M 3 V	M 3 X	ALT / 100	M C V	M2 CODE	M 2 V	M 2 X	S P I	A R T	C P I	H T E	C N F	IO CH #	TIME	DELTA TIME
362	RB	45/57	2897	3321	3		238	3	0202	0		7		28			2	12:57:52.4	4.7
363	RB	45/17	2899	3321	3		237	3	0202	0		7		28			2	12:57:57.0	4.6
364	RB	44/41	2899	3321	3		235	3	0600	0		7		28			3	12:58:01.6	4.6
365	RB	44/ 2	2901	3321	3		234	3	0600	0		7		28			2	12:58:06.3	4.7
366	RB	43/27	2903	3321	3		233	3	0202	0		7		28			3	12:58:10.9	4.6
367	RB	42/53	2905	3321	3		232	3	0600	0		7		28			1	12:58:15.4	4.5
368	RB	42/16	2907	3321	3		231	3	0600	0		7		28			1	12:58:20.1	4.7
369	RB	41/43	2909	3321	3		229	3	0202	0		7		28			2	12:58:24.7	4.6
370	RB	41/ 5	2912	3321	3		226	3	0600	0		7		28			3	12:58:29.4	4.7
371	RB	40/32	2914	3321	3		222	3	0600	0		7		28			3	12:58:34.0	4.6
372	RB	39/59	2918	3321	3		218	3	0200	0		7		28			1	12:58:38.6	4.6
373	RB	39/21	2921	3321	3		214	3	0600	0		7		28			2	12:58:43.2	4.6
374	RB	38/47	2924	3321	3		210	3	0202	0		7		28			3	12:58:47.8	4.6
375	RB	38/ 9	2927	3321	3		206	3	0402	0		7		28			3	12:58:52.4	4.6
376	RB	37/35	2931	3321	3		202	3	0202	0		7		28			2	12:58:57.1	4.7
377	RB	36/61	2934	3321	3		199	3	0602	0		7		28			1	12:59:01.7	4.6
378	RB	36/23	2938	3321	3		197	3	0202	0		7		28			3	12:59:06.3	4.6
379	RB	35/49	2943	3321	3		195	3	0602	0		7		28			2	12:59:10.9	4.6
380	RB	35/12	2946	3321	3		193	3	0600	0		7		28			1	12:59:15.5	4.6
381	RB	34/38	2951	3321	3		190	3	0200	0		7		28			1	12:59:20.2	4.7
382	RB	34/ 2	2955	3321	3		188	3	0202	0		7		28			3	12:59:24.8	4.6
383	RB	33/29	2960	3321	3		185	3	0600	0		7		28			1	12:59:29.4	4.6
384	RB	32/57	2965	3321	3		183	3	0202	0		7		28			1	12:59:34.0	4.6
385	RB	32/21	2970	3321	3		181	3	0202	0		7		28			1	12:59:38.6	4.6
386	RB	31/49	2974	3321	3		179	3	0202	0		7		28			1	12:59:43.3	4.7
387	RB	31/13	2980	3321	3		178	3	0202	0		7		28			2	12:59:47.9	4.6
388	RB	30/41	2985	3321	3		176	3	0202	0		7		28			1	12:59:52.5	4.6
389	RB	30/ 6	2991	3321	3		174	3	0202	0		7		28			1	12:59:57.1	4.6
389	RB	29/34	2996	3321	3		171	3	0600	0		7		28			1	13:00:01.7	4.6
390	RB	28/63	3001	3321	3		165	3	0600	0		7		28			1	13:00:06.3	4.6
391	RB	28/26	3008	3321	3		160	3	0202	0		7		28			3	13:00:11.0	4.7
392	RB	27/54	3013	3321	3		157	3	0600	0		7		28			2	13:00:15.6	4.6
393	RB	27/18	3020	3321	3		154	3	0202	0		7		28			1	13:00:20.2	4.6
394	RB	26/46	3026	3321	3		151	3	0600	0		7		28			2	13:00:24.8	4.6
395	RB	26/10	3033	3321	3		147	3	0202	0		7		28			3	13:00:29.4	4.6
396	RB	25/38	3039	3321	3		141	3	0600	0		7		28			3	13:00:34.1	4.7
397	RB	25/ 1	3047	3321	3		134	3	0200	0		7		28			3	13:00:38.7	4.6
398	RB	24/28	3054	3321	3		128	3	0602	0		7		28			2	13:00:43.3	4.6
399	RB	23/56	3063	3321	3		123	3	0202	0		7		28			1	13:00:48.0	4.7
400	RB	23/19	3072	3321	3		119	3	0202	0		7		28			3	13:00:52.6	4.6
401	RB	22/47	3082	3321	3		115	3	0202	0		7		28			2	13:00:57.2	4.6
402	RB	22/10	3091	3321	3		110	3	0202	0		7		28			2	13:01:01.9	4.7
403	RB	21/36	3099	3321	3		106	3	0600	0		7		28			3	13:01:06.4	4.5
404	RB	21/ 0	3109	3321	3		102	3	0202	0		7		28			3	13:01:11.1	4.7
405	RB	20/28	3120	3321	3		99	3	0202	0		7		28			1	13:01:15.7	4.6
406	RB	19/56	3130	3321	3		95	3	0202	0		7		28			2	13:01:20.3	4.6
407	RB	19/20	3142	3321	3		91	3	0202	0		7		28			2	13:01:25.0	4.7
408	RB	18/49	3153	3321	3		87	3	0600	0		7		28			1	13:01:29.6	4.6
409	RB	18/14	3166	3321	3		82	3	0202	0		7		28			3	13:01:34.2	4.6
410	RB	17/43	3179	3321	3		77	3	0602	0		7		28			2	13:01:38.8	4.6

CD RECORD 09/11/01 001 002 003 JFK 004 005 006 EWR 009 010 011 SWF 012 013 014 I

SCAN	MSG	RANGE	AZ	E M G	3/A CODE	M 3 V	M 3 X	ALT / 100	M C V	M2 CODE	M 2 V	S 2 X	A P I	C R T	H I T	C T E	IO N F #	TIME	DELTA TIME
411	RB	17/ 9	3192	3321	3			73	3	0402	0		6	28			1	13:01:43.5	4.7
412	RB	16/39	3206	3321	3			71	3	0202	0		6	28			2	13:01:48.1	4.6
413	RB	16/ 6	3222	3321	3			68	3	0402	0		6	28			2	13:01:52.8	4.7
414	RB	15/38	3238	3321	3			63	3	0202	0		7	28			1	13:01:57.4	4.6
415	RB	15/ 7	3255	3321	3			57	3	0202	0		7	28			3	13:02:02.1	4.7
416	RB	14/42	3274	3321	3			51	3	0200	0		7	28			2	13:02:06.7	4.6
417	RB	14/14	3295	3321	3			46	3	0202	0		7	28			3	13:02:11.3	4.6
418	RB	13/51	3317	3321	3			41	3	0600	0		6	28			1	13:02:16.0	4.7
419	RB	13/25	3340	3321	3			33	3	0600	0		7	28			1	13:02:20.6	4.6
420	RB	13/ 1	3364	3321	3			25	3	0202	0		7	28			2	13:02:25.2	4.6
421	RB	12/42	3390	3321	3			18	3	0602	0		7	28			3	13:02:29.9	4.7
422	RB	12/21	3419	3321	3			13	3	0202	0		7	28			1	13:02:34.5	4.6
423	RB	12/ 4	3452	3321	3			10	3	0600	0		4	28			2	13:02:39.2	4.7