

DATA FROM RADAR, EWR VICINITY, 0230-0451z, 15 July 2001

TIME (z)	LOCATION	DESCRIPTION
0231:26	5 nm sw EWR, sw-bound	1 or 2 sweeps only
0232:10	just s EWR, w-bound	1 or 2 sweeps only
0232:48-0233:06	s end of EWR, se-bound	4 sweeps only
0234:02-30	2 nm ne EWR, ne/n-bound	weak target, fast, couldn't get speed
0234:50-	6 nm sw EWR	50-60 kts., disappeared
0235:30	2 nm s EWR, sw-bound	several sweeps only
0236:46	9 nm sw EWR	
0237:30	over EWR, sw-bound	several sweeps only
0238:54	2 nm e EWR, nw-bound	several sweeps, appeared fast-moving
0239:40-0240:17	11 nm s EWR, sw-bound	approx. 50 kts.
0242:40-0243:13	1 nm n EWR, sw-bound	speed 210-140 kts.
0245:00	1 nm ne EWR, ne-bound	several sweeps only
0245:00-0246:27	over EWR, barely moved	
0246:39-0247:05	over EWR, sw-bound	370-390 kts.
0247:15	3 nm s EWR	several sweeps only
0247:39	over EWR, ne-bound	several sweeps only
0247:39	over EWR, nw-bound	several sweeps only, speed 180 kts.
0250:23	1 nm ne EWR, sw/w-bound	150-60 kts., then disappeared
0252:52-0253:11	1 nm ne EWR, ne-bound	400-630 kts.
0253:30	just n EWR, sw-bound	several sweeps only
0253:30	1 nm ne EWR, ne-bound	several sweeps only
0254:10	6 nm s EWR, s-bound	40-50 kts., several sweeps only
0254:35-56	over EWR, ne-bound	several sweeps only

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0254:35-56	over EWR	stationary over dept. end R04R
0256:15-35	just s EWR, ne-bound	speed 40-60 kts.
0256:55-0257:17	over EWR, ne-bound	speed 40-60 kts.
0258:25	just s EWR, ne-bound	80 kts., several sweeps only
0258:50-0259:20	1 nm n EWR, n-bound	speed approx. 100 kts.
0259:10-40	over EWR	stationary
0300:15-0301:04	1 nm n EWR, sw-bound	190-150 kts.
0301:20-45	1 nm s EWR, sw-bound	150-180 kts.
0302:00-18	over EWR	stationary
0302:27-0303:06	2 nm e EWR, nw-bound	30-450 kts.
0303:22-48	1 nm ne EWR, ne-bound	530-580 kts.
0305:23- 0306:53- 0313:05	1 nm n EWR, sw-bound, at 0306:15 tud	150-260 kts., meandering
0308:03	1 nm n EWR, ne-bound	several sweeps only
0309:20-45	7 nm s EWR, sw-bound	speed approx. 50 kts.
0310:35-50	west end Verrazano Br., s-bound	slow-moving
312:25	2 nm n EWR, n-bound	
312:55-0313:16	1 nm n EWR, nw-bound	fast-moving
0313:50	6 nm sw EWR, never left that area	100-120 kts.
315:20- 0316:52	2 nm n EWR, ne-bound, at 0316:09 turned southbound	270-100 kts 120-180 kts.
0318:34	2 nm e EWR, nw-bound	several sweeps only

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TIME (z)	LOCATION	DESCRIPTION
0319:45-0320:05	2 nm s EWR, sw-bound	190 kts.
0320:00- 0322:18	1 nm ne EWR, ne-bound, at 0321:20 turned e-bound	100-110 kts., increased to 220 kts.
0320:58	5 nm ne EWR, ne-bound	fast, several sweeps only
0327:20-40	1 nm ne EWR, ne-bound	speed approx. 480 kts.
0333:40-0334:15	5 nm sw EWR, sw-bound	110-80 kts.
0334:35-59	2 nm e EWR, e-bound	50-80 kts.
0336:15-31	2 nm ne EWR, sw-bound	40-50 kts.
0337:45-0338:16	just n EWR, ne-bound	250 kts., then slows
0338:35-0339:11	2 nm e EWR, nw-bound	380-560 kts.
0339:24-36	1 nm w EWR, w-bound	fast-moving
0339:40-0340:08	over EWR, n-bound	120-170 kts.
0342:10-0345:43	6 nm s EWR, sw-bound	speed approx 40 kts.
0346:05-18	3 nm ne EWR, ne-bound	fast-moving
0346:35	2 nm ne EWR	several sweeps only
0350:07- 0351:53	1 nm ne EWR, ne-bound, meanders 1-2 nm ne, at 0351:10 turns w-bound	50-120 kts., speed increased to 310 kts., then slows and meanders until dropping off
0357:45-0358:30	1 nm ne EWR, ne-bound	speed approx. 80 kts.
0359:50-0400:07	2 nm ne EWR, n-bound	fast-moving
0400:30-53	2 nm e EWR, nw-bound	speed approx. 290 kts.
0401:42	2 nm e EWR, ne-bound	several sweeps only
0403:14	1 nm w EWR, sw-bound	several sweeps only
0403:14-0404:07	over EWR, ne-bound	210-180 kts.

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0404:40-50	1 nm ne EWR, ne-bound	several sweeps only
0407:20-0408:24	just e EWR, sw-bound	370-490 kts.
0409:23	2 nm e EWR, w-bound	several sweeps only
0409:23-59	2 nm ne EWR, ne-bound	440-500 kts.
0410:20-45	1 nm ne EWR, ne-bound, then sw-bound	fast at first, then slows
0413:05-40	over EWR, sw-bound	speed approx 220 kts.
0419:50	1 nm s EWR, ne-bound	slow, several sweeps only
0421:40- 0422:46	4 nm sw EWR, sw-bound, at 0422:04 turned n-bound, at 0422:20 turned s-bound	70-110 kts.
0422:55-0423:14	3 nm e EWR, nw-bound	fast-moving
0427	4 nm sw Verrazano Br.	weak target, slow, only a couple of sweeps
0427:23-48	2 nm ne EWR, ne-bound	speed greater than 400 kts.
0428:16-36	over EWR, sw-bound	speed 330 kts.
0430:10-50	over EWR, sw-bound for approx. 7 nm	approx. 220 hdg, speed averages 600 kts.
0432:30	1 nm ne EWR, ne-bound hdg,. Approx. 060-070	several sweeps only, speed 50-80 kts.
0433:30-0434:30	over Linden, barely sw-bound (hdg 220-230)	just meanders, speed 50-70 kts.
0435:05-26	1 nm ne EWR, ne-bound hdg. 060-070	accelerates from 60 kts. To 200 kts., then drops off
0438:55	4 nm sw EWR, se-bound	several sweeps only, couldn't get speed
0440:00-15	5nm w EWR, sw-bound	slow, several sweeps only
0441:15-54	2 targets: 1 nm ne EWR 2 nm ene EWR, e-bound	slow, several sweeps only slow at first, accelerates to 290 kts. At last sweep
0444:20-45	15 nm sw EWR, sw-bound	weak target, slow

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TIME (z)	LOCATION	DESCRIPTION
0446:40-58	5 nm ne EWR, ne-bound	slow
0446:55	over EWR, sw-bound	slow, several sweeps only
0447:30	over EWR, sw-bound for approx. 4 nm	speed approx. 280 kts., then drops off
0448:30	6 nm sw EWR, sw-bound	several sweeps only, speed approx. 180 kts.
0450:10	just e EWR, e-bound	several sweeps only
0450:35- 0451:15	5 nm sw EWR, sw-bound	speed varies from 80-160 kts.