

**Fifth Meeting of the Cross Polar Trans East Air Traffic Management Providers' Work Group  
(CPWG/5)**

(Ft. Worth, TX, 1-3 April 2008)

**Agenda Item 4: Communications, Navigation and Surveillance and Air Traffic Management Issues**

**Route Proposals**

**(Presented by Continental Airlines)**

**SUMMARY**

This paper presents proposal for new route development for discussion and consideration by the Russian Federation.

**1 Introduction**

1.1 Aircraft entry into Russian controlled airspace is permitted only via specific entry points and published Air Traffic Services (ATS) routes. Since 1990, when entry of commercial flights into what was then the USSR's far east airspace was first permitted, until today, 12 entry points have been established along the U.S. / Russian FIR boundary. All 12 fall within Anchorage ARTCC's Arctic or Domestic Flight Information Region (FIR).

1.2 Development of these routes and entry points have been coordinated either bilaterally, that is by the United States and the Soviet Union in the early years, or multilaterally through the Russian/American Coordinating Group for Air Traffic Control (RACGAT) and now with the new multi-lateral Cross Polar Trans East Air Traffic Management Providers' Working Group (CPWG)

**2 Discussion**

2.1 With the great progress made by the Russian Federation to accommodate new long haul routes via the Cross Polar and Russia Trans-East routes, Continental Airlines, as a member of the International Air Transport Association (IATA) is proposing the implementation of user preferred routes within Russian airspace for discussion and consideration by the Russian Federation.

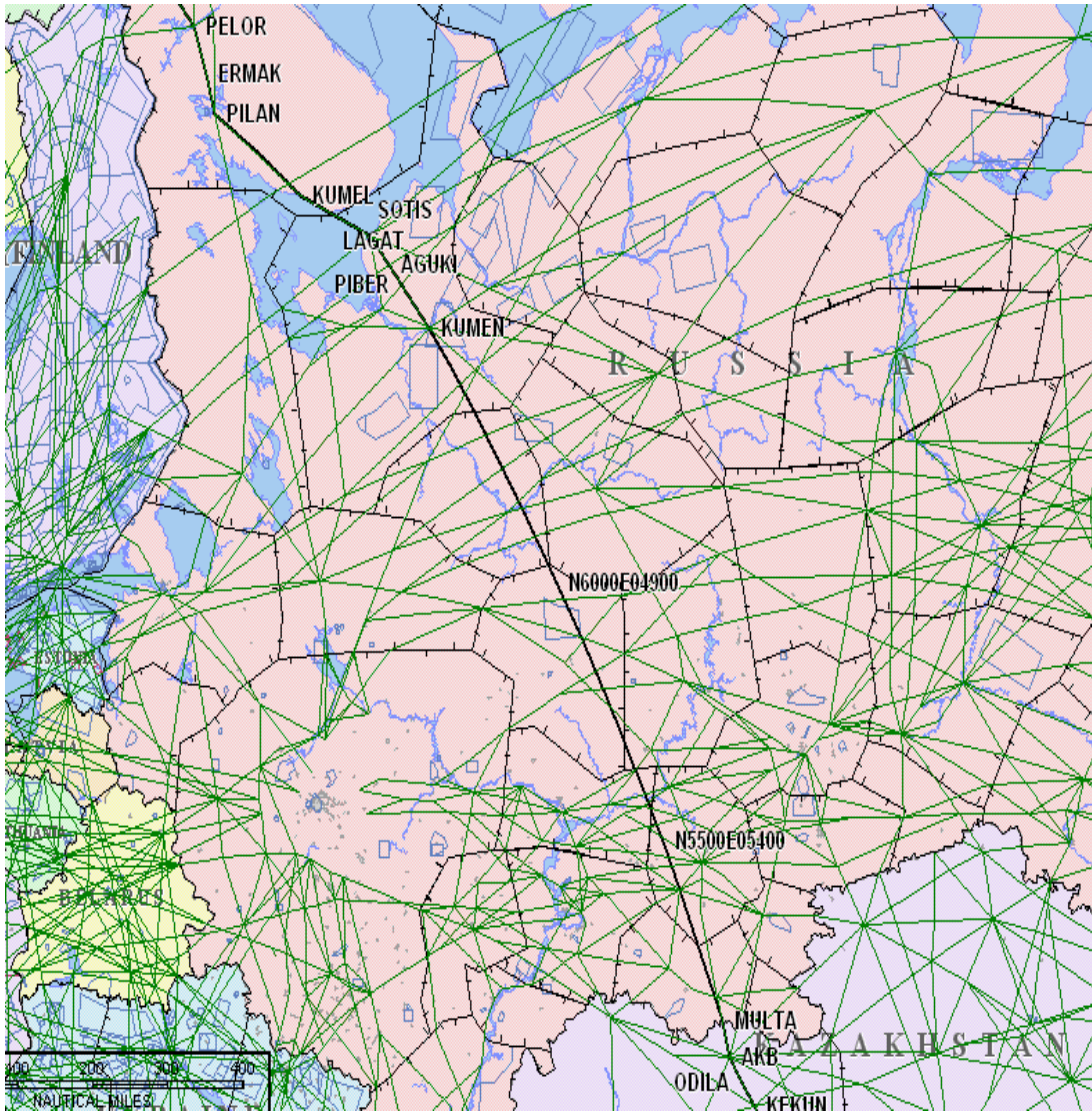
**4. Conclusion**

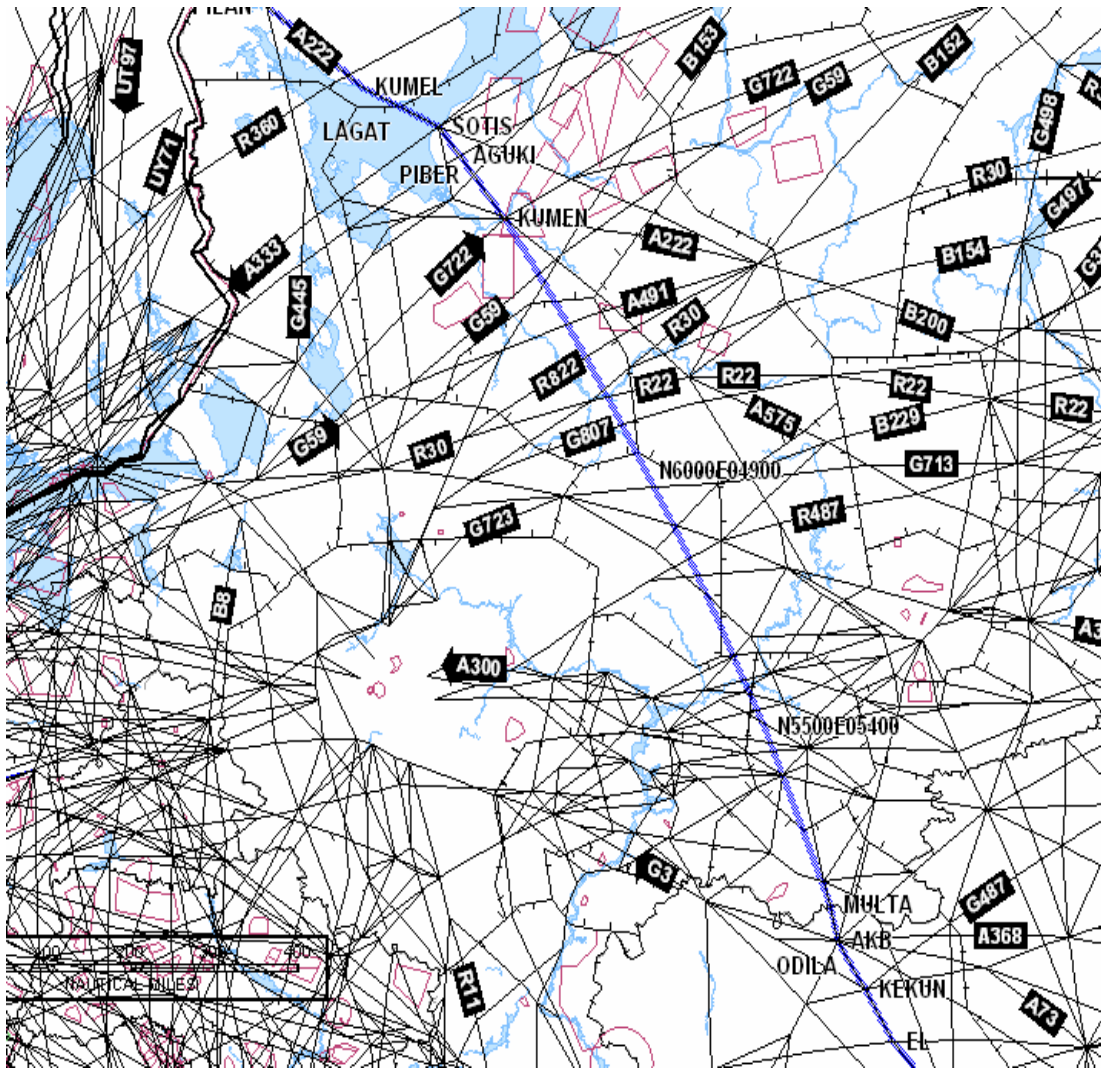
4.1 The Meeting is invited to:

- a. consider the proposals by Continental on the attached new route proposals.

**Proposed Route MK1 / MK2 - same proposed routing within Russia**

**MULTA..55N054E..60N049E..KUMEN**





VABB-EWR	dd-Mon-yr	Time Saved over "normal" best time	Fuel saved	Additional Payload able to carry
MK1	3-Jan-08	-26	-4200	-42
MK1	4-Jan-08	-9	-400	-5
MK1	5-Jan-08	-12	1200	-15
MK1	7-Jan-08	0	700	20
MK1	8-Jan-08	-4	600	6
MK1	12-Jan-08	-1	-100	0
MK1	18-Jan-08	5	1400	12
MK1	20-Jan-08	7	2000	20
MK1	26-Jan-08	9	2000	20
MK1	29-Jan-08	0	-500?	-5?
MK1	30-Jan-08	5	1400	14
MK1	31-Jan-08	8	2500	25

VABB-EWR	dd-Mon-yr	Time Saved over "normal" best time	Fuel saved	Additional Payload able to carry
MK2	3-Jan-08	-31	-5200	-52
MK2	4-Jan-08	-13	-1200	-13
MK2	5-Jan-08	-17	-2400	-26
MK2	7-Jan-08	-4	1300	11
MK2	8-Jan-08	-8	-300	-3
MK2	12-Jan-08	-4	-900	-8
MK2	18-Jan-08	0	400	3
MK2	20-Jan-08	3	1100	11
MK2	26-Jan-08	5	1300	13
MK2	29-Jan-08	-4	-1300	-14
MK2	30-Jan-08	1	600	6
MK2	31-Jan-08	8	1700	17

VABB-EWR	dd-Mon-yr	Time Saved over "normal" best time	Fuel saved	Additional Payload able to carry
MK1 S	1-Dec-07	-11	-2400	-33
MK1 S	2-Dec-07	-31	-5200	-22
MK1 S	3-Dec-07	1	-200	-2
MK1 S	8-Dec-07	2	700	-1
MK1 S	9-Dec-07	4	600	-3
MK1 S	13-Dec-07	-13	-3400	-40
MK1 S	14-Dec-07	-27	-7600	-82
MK1 S	15-Dec-07	-28	-6500	-74
MK1 S	19-Dec-07	-23	-5100	-54
MK1 S	20-Dec-07	-24	-4700	-53
MK1 S	21-Dec-07	-38	-6800	-75
MK1 S	25-Dec-07	-18	-3700	-47
MK1 S	26-Dec-07	-8	-900	-18
MK1 S	27-Dec-07	-7	-800	-13
MK1 S	31-Dec-07	-8	-900	-13

VABB-EWR	dd-Mon-yr	Time Saved over "normal" best time	Fuel saved	Additional Payload able to carry
MK2 Y	1-Dec-07	-3	-800	-7
MK2 Y	2-Dec-07	-18	-2200	-28
MK2 Y	3-Dec-07	4	700	8
MK2 Y	8-Dec-07	7	1600	16
MK2 Y	9-Dec-07	10	1700	17
MK2 Y	13-Dec-07	-11	-2900	-29
MK2 Y	14-Dec-07	-22	-5000	-50
MK2 Y	15-Dec-07	-23	-5400	-54
MK2 Y	19-Dec-07	-16	-3700	-38
MK2 Y	20-Dec-07	-26	-3500	-56
MK2 Y	21-Dec-07	-36	-6700	-69
MK2 Y	26-Dec-07	0	800	7
MK2 Y	27-Dec-07	-3	0	0
MK2 Y	31-Dec-07	-8	-800	-8

VABB-EWR	dd-Mon-yr	Time Saved over "normal" best time	Fuel saved	Additional Payload able to carry
MK2 S	1-Dec-07	-15	-3200	-40
MK2 S	2-Dec-07	-36	-6200	-73
MK2 S	3-Dec-07	-3	-1000	-11
MK2 S	8-Dec-07	-1	-100	-10
MK2 S	9-Dec-07	0	-200	-11
MK2 S	13-Dec-07	-18	-4400	-51
MK2 S	14-Dec-07	-30	-6600	-73
MK2 S	15-Dec-07	-33	-7600	-85
MK2 S	19-Dec-07	-26	-5700	-61
MK2 S	20-Dec-07	-37	-7600	-82
MK2 S	21-Dec-07	-48	-8600	-93
MK2 S	25-Dec-07	-22	-4500	-55
MK2 S	26-Dec-07	-12	-1600	-25
MK2 S	27-Dec-07	-11	-1600	-21
MK2 S	31-Dec-07	-13	-2000	-24

VABB-EWR	dd-Mon-yr	Time Saved over "normal" best time	Fuel saved	Additional Payload able to carry
MK1 Y	1-Dec-07	0	100	
MK1 Y	2-Dec-07	-1600	-1700	
MK1 Y	3-Dec-07	1400	1500	
MK1 Y	8-Dec-07	2400	2400	
MK1 Y	9-Dec-07	2400	2400	
MK1 Y	13-Dec-07	-1800	-1800	
MK1 Y	14-Dec-07	-4200	-4200	
MK1 Y	15-Dec-07	-4300	-4300	
MK1 Y	19-Dec-07	-3100	-3200	
MK1 Y	20-Dec-07	-3000	-3100	
MK1 Y	21-Dec-07	-5000	-3200	
MK1 Y	25-Dec-07	-900	-900	
MK1 Y	26-Dec-07	1500	1500	
MK1 Y	27-Dec-07	600	600	
MK1 Y	31-Dec-07	-300	200	

VABB-EWR	dd-Mon-yr	Time Saved over "normal" best time	Fuel saved	Additional Payload able to carry
MK1 S	6-Nov-07	-13	-3000	-30
MK1 S	7-Nov-07	-7	-1900	-22
MK1 S	8-Nov-07	3	700	4
MK1 S	9-Nov-07	-7	-1400	-17
MK1 S	10-Nov-07	-5	-700	-10
MK1 S	12-Nov-07	-16	-3400	-40
MK1 S	13-Nov-07	-21	-3300	-43
MK1 S	14-Nov-07	-5	-1200	-22
MK1 S	15-Nov-07	-9	-5100	-52
MK1 S	16-Nov-07	-22	-3900	-41
MK1 S	17-Nov-07	-7	-1400	-18
MK1 S	18-Nov-07	-24	-5200	-56
MK1 S	25-Nov-07	-11	-1900	-26
MK1 S	26-Nov-07	1	-100	-8
MK1 S	27-Nov-07	1	800	5
MK1 S	28-Nov-07	0	-300	-11
MK1 S	29-Nov-07	-2	-300	-11
MK1 S	30-Nov-07	-16	-3200	-36

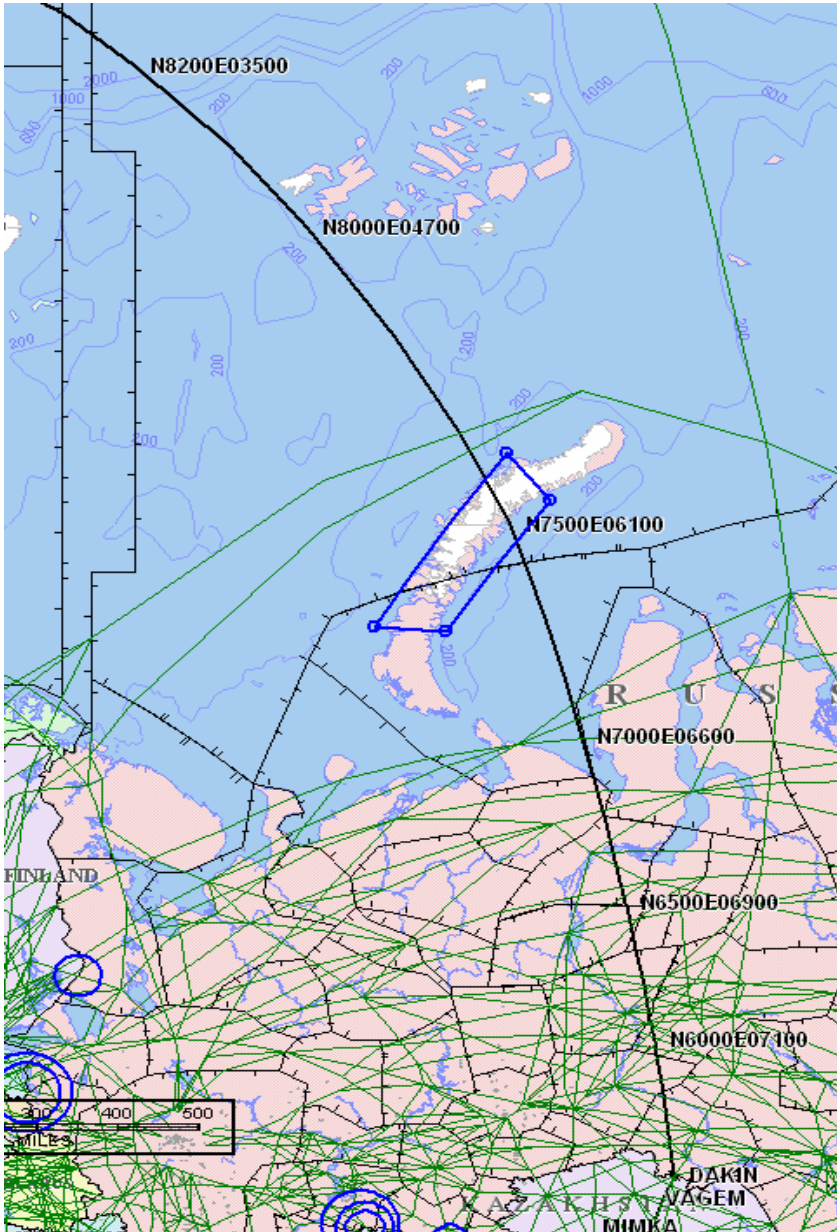
VABB-EWR	dd-Mon-yr	Time Saved over "normal" best time	Fuel saved	Additional Payload able to carry
MK1 Y	6-Nov-07	-8	-2100	-20
MK1 Y	7-Nov-07	2	-200	-2
MK1 Y	8-Nov-07	12	2500	25
MK1 Y	9-Nov-07	7	1300	13
MK1 Y	10-Nov-07	8	1700	18
MK1 Y	12-Nov-07	-5	-1000	-10
MK1 Y	13-Nov-07	-7	-500	-4
MK1 Y	14-Nov-07	8	1500	15
MK1 Y	15-Nov-07	-2	-3500	-24
MK1 Y	16-Nov-07	-13	-2100	-21
MK1 Y	17-Nov-07	2	500	5
MK1 Y	18-Nov-07	-14	-3000	-31
MK1 Y	25-Nov-07	5	1200	13
MK1 Y	26-Nov-07	13	2400	25
MK1 Y	27-Nov-07	7	2300	24
MK1 Y	28-Nov-07	9	1900	18
MK1 Y	29-Nov-07	6	1500	15
MK1 Y	30-Nov-07	-10	-1800	-18

VABB-EWR	dd-Mon-yr	Time Saved over "normal" best time	Fuel saved	Additional Payload able to carry
MK2 S	6-Nov-07	-16	-3600	-37
MK2 S	7-Nov-07	-11	-2700	-30
MK2 S	8-Nov-07	0	100	-2
MK2 S	9-Nov-07	-9	-2000	-23
MK2 S	10-Nov-07	-9	-1600	-19
MK2 S	12-Nov-07	-20	-4300	-44
MK2 S	13-Nov-07	-26	-4300	-53
MK2 S	14-Nov-07	-6	-1200	-22
MK2 S	15-Nov-07	-13	-5400	-55
MK2 S	16-Nov-07	-30	-6200	-64
MK2 S	17-Nov-07	-25	-4900	-53
MK2 S	18-Nov-07	-38	-9000	-93
MK2 S	25-Nov-07	-18	-3400	-42
MK2 S	26-Nov-07	-4	-1300	-20
MK2 S	27-Nov-07	-2	200	-4
MK2 S	28-Nov-07	-4	-1000	-19
MK2 S	29-Nov-07	-4	-700	-15
MK2 S	30-Nov-07	-20	-3900	-44

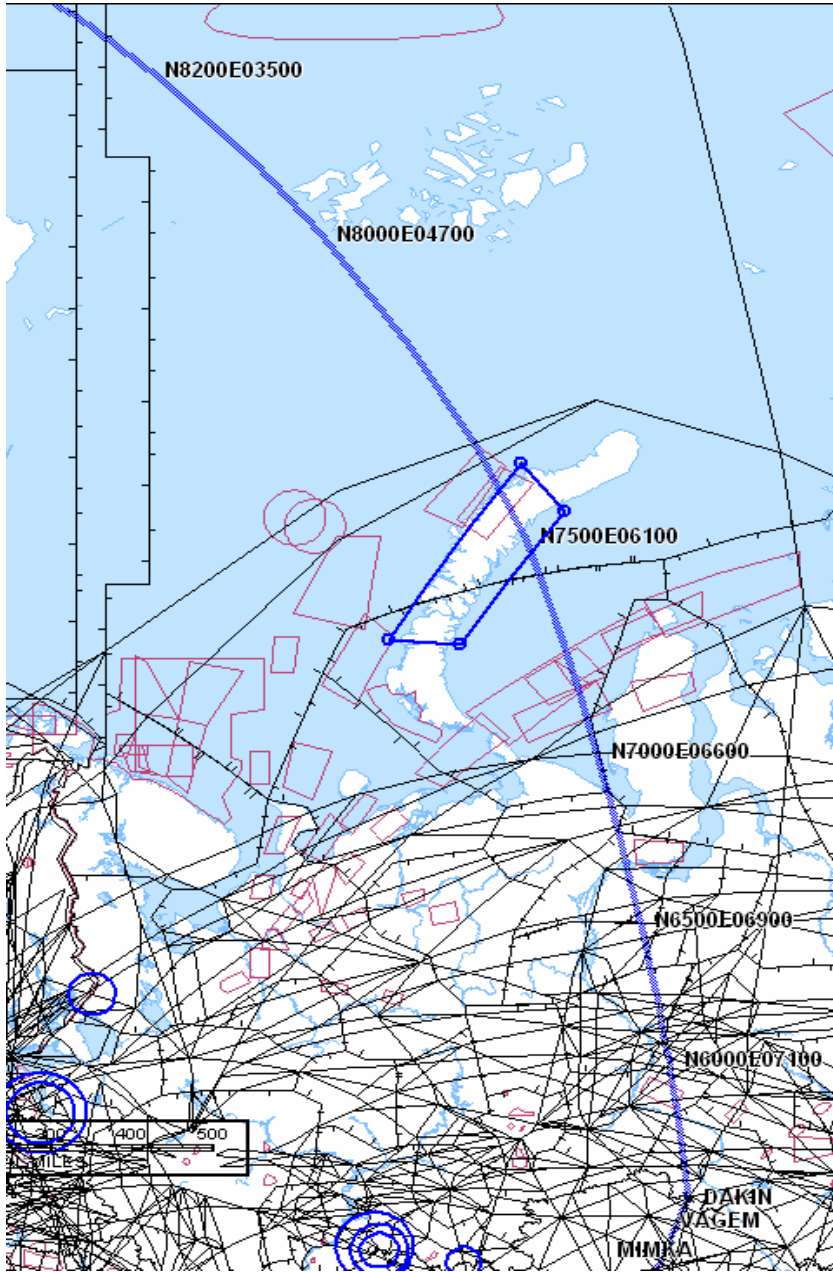
VABB-EWR	dd-Mon-yr	Time Saved over "normal" best time	Fuel saved	Additional Payload able to carry
MK2 Y	6-Nov-07	-10	-2700	-26
MK2 Y	7-Nov-07	-2	-1000	-10
MK2 Y	8-Nov-07	9	1700	17
MK2 Y	9-Nov-07	3	500	5
MK2 Y	10-Nov-07	4	900	10
MK2 Y	12-Nov-07	-10	-2200	-23
MK2 Y	13-Nov-07	-11	-1500	-14
MK2 Y	14-Nov-07	4	1000	10
MK2 Y	15-Nov-07	-9	-4400	-43
MK2 Y	16-Nov-07	-22	-3800	-38
MK2 Y	17-Nov-07	-16	-2900	-30
MK2 Y	18-Nov-07	-26	-6800	-68
MK2 Y	25-Nov-07	-8	-1300	-12
MK2 Y	26-Nov-07	5	800	9
MK2 Y	27-Nov-07	4	1600	29
MK2 Y	28-Nov-07	4	1100	11
MK2 Y	29-Nov-07	2	600	6
MK2 Y	30-Nov-07	-14	-2600	-27

**Proposed Route D99**

**DAKIN..60N071E..65N069E..70N066E..75N061E  
..80N047E..82N035E..84N000E..83N030W..**







VABB-EWR	dd-Mon-yr	Time Saved over "normal" best time	Fuel saved	Additional Payload able to carry
D99	3-Jan-08	-31	-5200	-52
D99	4-Jan-08	-82	-14000	-144
D99	5-Jan-08	-48	-8000	-83
D99	7-Jan-08	-48	-7100	-74
D99	8-Jan-08	-35	-4200	-44
D99	12-Jan-08	10	2700	23
D99	18-Jan-08	-17	-3600	-38
D99	20-Jan-08	-36	-2100	-24
D99	26-Jan-08	2	-1900?	-18?
D99	29-Jan-08	-3	-100	-2
D99	30-Jan-08	3	800	8
D99	31-Jan-08	-28	-4700	-48

VABB-EWR	dd-Mon-yr	Time Saved over "normal" best time	Fuel saved	Additional Payload able to carry
D99 S	1-Dec-07	-2	-1600	-24
D99 S	2-Dec-07	-14	-3300	-42
D99 S	3-Dec-07	-19	-5300	-52
D99 S	8-Dec-07	-50	-10600	-116
D99 S	9-Dec-07	-19	-4300	-53
D99 S	13-Dec-07	-26	-6800	-73
D99 S	14-Dec-07	-36	-8400	-91
D99 S	15-Dec-07	-29	-6900	-78
D99 S	19-Dec-07	-11	-2600	-30
D99 S	20-Dec-07	-16	-3400	-40
D99 S	21-Dec-07	-9	-1700	-22
D99 S	25-Dec-07	-37	-7500	-85
D99 S	26-Dec-07	-30	-5600	-64
D99 S	27-Dec-07	-29	-5300	-57
D99 S	31-Dec-07	-43	-7700	-84

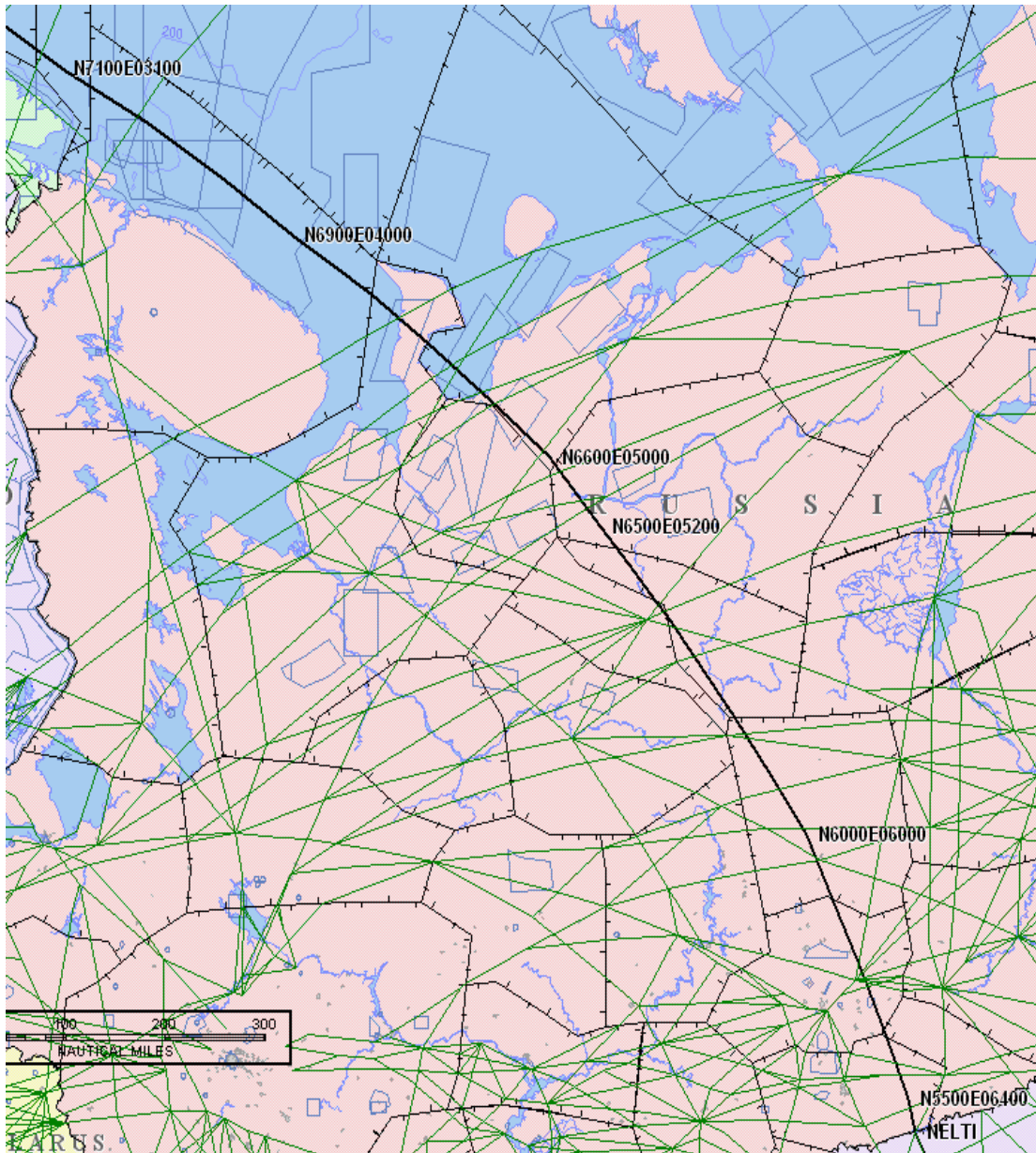
VABB-EWR	dd-Mon-yr	Time Saved over "normal" best time	Fuel saved	Additional Payload able to carry
D99 Y	1-Dec-07	8	1200	12
D99 Y	2-Dec-07	3	500	5
D99 Y	3-Dec-07	-11	-3200	-32
D99 Y	8-Dec-07	-43	-8500	-86
D99 Y	9-Dec-07	-11	-1900	-20
D99 Y	13-Dec-07	-20	-4900	-49
D99 Y	14-Dec-07	-29	-6300	-63
D99 Y	15-Dec-07	-20	-4200	-42
D99 Y	19-Dec-07	-4	-300	-4
D99 Y	20-Dec-07	-6	-400	-5
D99 Y	21-Dec-07	0	1100	11
D99 Y	25-Dec-07	-25	-5100	-52
D99 Y	26-Dec-07	-16	-2900	-29
D99 Y	27-Dec-07	-24	-4300	-43
D99 Y	31-Dec-07	-38	-6700	-69

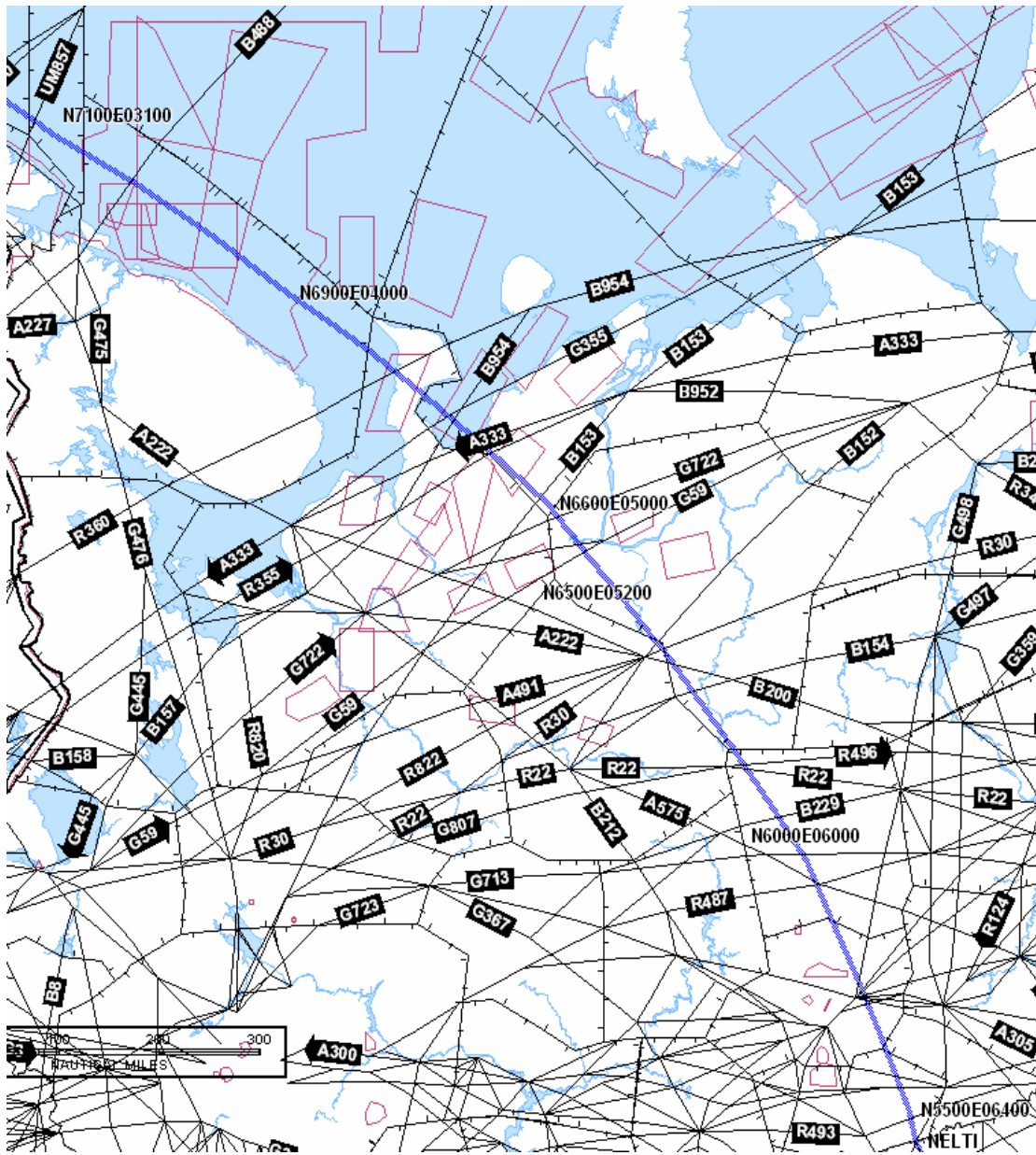
VABB-EWR	dd-Mon-yr	Time Saved over "normal" best time	Fuel saved	Additional Payload able to carry
D99 Y	6-Nov-07	1	400	5
D99 Y	7-Nov-07	6	2000	20
D99 Y	8-Nov-07	-8	-1300	-14
D99 Y	9-Nov-07	-14	-3300	-34
D99 Y	10-Nov-07	-15	-2300	-24
D99 Y	12-Nov-07	-36	-7700	-78
D99 Y	13-Nov-07	-28	-4700	-47
D99 Y	14-Nov-07	-39	-6700	-68
D99 Y	15-Nov-07	-12	-3700	-37
D99 Y	16-Nov-07	-20	-3400	-34
D99 Y	17-Nov-07	-19	-3600	-37
D99 Y	18-Nov-07	-6	-1800	-18
D99 Y	25-Nov-07	-5	-1400	-13
D99 Y	26-Nov-07	-16	-3600	-34
D99 Y	27-Nov-07	-17	-2900	-29
D99 Y	28-Nov-07	-30	-6000	-61
D99 Y	29-Nov-07	-15	-2600	-26
D99 Y	30-Nov-07	13	2700	27

VABB-EWR	dd-Mon-yr	Time Saved over "normal" best time	Fuel saved	Additional Payload able to carry
D99 S	6-Nov-07	-5	-1400	-14
D99 S	7-Nov-07	-3	-600	-9
D99 S	9-Nov-07	-24	-5900	-61
D99 S	10-Nov-07	-22	-4800	-50
D99 S	12-Nov-07	-44	-10100	-109
D99 S	13-Nov-07	-40	-7800	-88
D99 S	14-Nov-07	-47	-9200	-102
D99 S	15-Nov-07	-16	-5400	-56
D99 S	16-Nov-07	-24	-5100	-53
D99 S	17-Nov-07	-26	-5700	-61
D99 S	18-Nov-07	-15	-4500	-48
D99 S	25-Nov-07	-14	-4100	-48
D99 S	26-Nov-07	-25	-6600	-73
D99 S	27-Nov-07	-23	-5000	-56
D99 S	28-Nov-07	-42	-9200	-102
D99 S	29-Nov-07	-20	-4400	-52
D99 S	30-Nov-07	7	800	5

**Proposed Route BN9**

**NELTI..55N064E..60N060E..65N052E..66N050E..69N040E..71N0**





VABB-EWR	dd-Mon-yr	Time Saved over "normal" best time	Fuel saved	Additional Payload able to carry
BN9	3-Jan-08	-27	-4200	-42
BN9	4-Jan-08	-18	-2000	-22
BN9	5-Jan-08	-20	-2800	-28
BN9	7-Jan-08	-8	900	8
BN9	8-Jan-08	-3	1100	11
BN9	12-Jan-08	18	3600	37
BN9	18-Jan-08	-3	100	0
BN9	20-Jan-08	-3	300	2
BN9	26-Jan-08	8	2200	22
BN9	29-Jan-08	8	1900	19
BN9	30-Jan-08	5	1400	14
BN9	31-Jan-08	4	1100	10

VABB-EWR	dd-Mon-yr	Time Saved over "normal" best time	Fuel saved	Additional Payload able to carry
BN9 S	1-Dec-07	-6	-1200	-20
BN9 S	2-Dec-07	-31	-5500	-25
BN9 S	3-Dec-07	-7	-1200	-13
BN9 S	8-Dec-07	-8	-1600	-24
BN9 S	9-Dec-07	-10	-1900	-29
BN9 S	13-Dec-07	-23	-6400	-69
BN9 S	14-Dec-07	-22	-4600	-53
BN9 S	15-Dec-07	-39	-8400	-94
BN9 S	19-Dec-07	-16	-3300	-37
BN9 S	20-Dec-07	-21	-4100	-47
BN9 S	21-Dec-07	-19	-2900	-35
BN9 S	25-Dec-07	-30	-6300	-72
BN9 S	26-Dec-07	-29	-5200	-60
BN9 S	27-Dec-07	-21	-3800	-42
BN9 S	31-Dec-07	-20	-3500	-40

VABB-EWR	dd-Mon-yr	Time Saved over "normal" best time	Fuel saved	Additional Payload able to carry
BN9 Y	1-Dec-07	6	1200	12
BN9 Y	2-Dec-07	-18	-2800	-29
BN9 Y	3-Dec-07	0	400	4
BN9 Y	8-Dec-07	0	100	1
BN9 Y	9-Dec-07	0	0	0
BN9 Y	13-Dec-07	-17	-3900	-40
BN9 Y	14-Dec-07	-14	-3100	-31
BN9 Y	15-Dec-07	-28	-6200	-63
BN9 Y	19-Dec-07	-6	-1400	-15
BN9 Y	20-Dec-07	-11	-2000	-21
BN9 Y	21-Dec-07	-8	-900	-10
BN9 Y	25-Dec-07	-16	-3600	-37
BN9 Y	26-Dec-07	-17	-2700	-29
BN9 Y	27-Dec-07	-14	-2200	-23
BN9 Y	31-Dec-07	-14	-2200	-22

VABB-KEWR	dd-Mon-yr	Time Saved over "normal" best time	Fuel saved	Additional Payload able to carry
BN9 S	6-Nov-07	-9	-2400	-24
BN9 S	7-Nov-07	-3	-1000	-13
BN9 S	8-Nov-07	-7	-1500	-20
BN9 S	9-Nov-07	-6	-1200	-14
BN9 S	10-Nov-07	-9	-1200	-15
BN9 S	12-Nov-07	-39	-7800	-86
BN9 S	13-Nov-07	-17	-2500	-34
BN9 S	14-Nov-07	-12	-2100	-31
BN9 S	15-Nov-07	3	-2200	-23
BN9 S	16-Nov-07	-33	-5500	-58
BN9 S	17-Nov-07	-13	-2100	-25
BN9 S	18-Nov-07	-26	-5900	-63
BN9 S	25-Nov-07	-14	-2200	-30
BN9 S	26-Nov-07	-15	-1300	-21
BN9 S	27-Nov-07	1	400	-2
BN9 S	28-Nov-07	-16	-3400	-43
BN9 S	29-Nov-07	7	2000	13
BN9 S	30-Nov-07	2	400	1

VABB-KEWR	dd-Mon-yr	Time Saved over "normal" best time	Fuel saved	Additional Payload able to carry
BN9 Y	6-Nov-07	-2	-1100	-10
BN9 Y	7-Nov-07	5	-500	5
BN9 Y	8-Nov-07	2	200	1
BN9 Y	9-Nov-07	4	900	9
BN9 Y	10-Nov-07	0	700	7
BN9 Y	12-Nov-07	-28	-5600	-57
BN9 Y	13-Nov-07	-6	-100	-1
BN9 Y	14-Nov-07	0	400	4
BN9 Y	15-Nov-07	12	-1100	-10
BN9 Y	16-Nov-07	-24	-3600	-37
BN9 Y	17-Nov-07	-4	-100	-1
BN9 Y	18-Nov-07	-16	-3700	-39
BN9 Y	25-Nov-07	1	700	7
BN9 Y	26-Nov-07	5	1100	12
BN9 Y	27-Nov-07	7	1600	17
BN9 Y	28-Nov-07	-7	-1300	-13
BN9 Y	29-Nov-07	13	3300	33
BN9 Y	30-Nov-07	8	1700	18