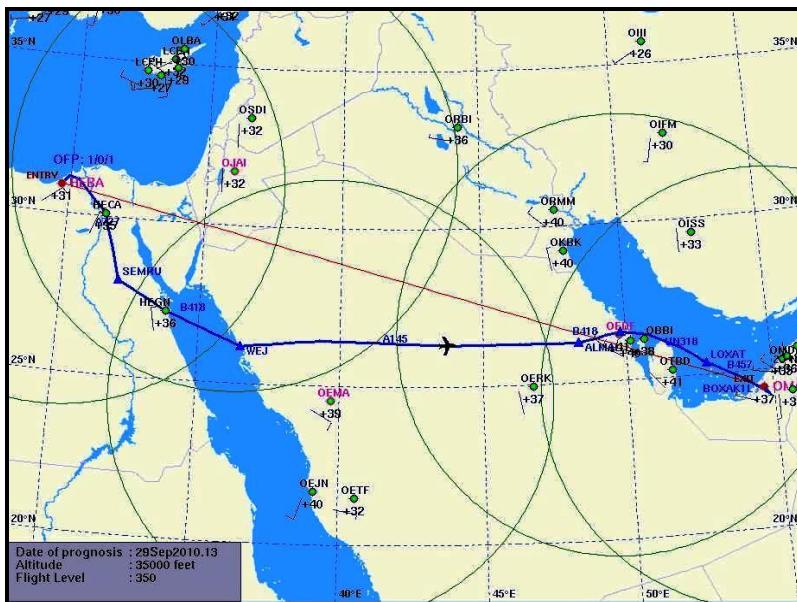


ALEXANDRIA (BORG EL ARAB INTL)

ROUTING – ENROUTE ALTERNATES VIEW



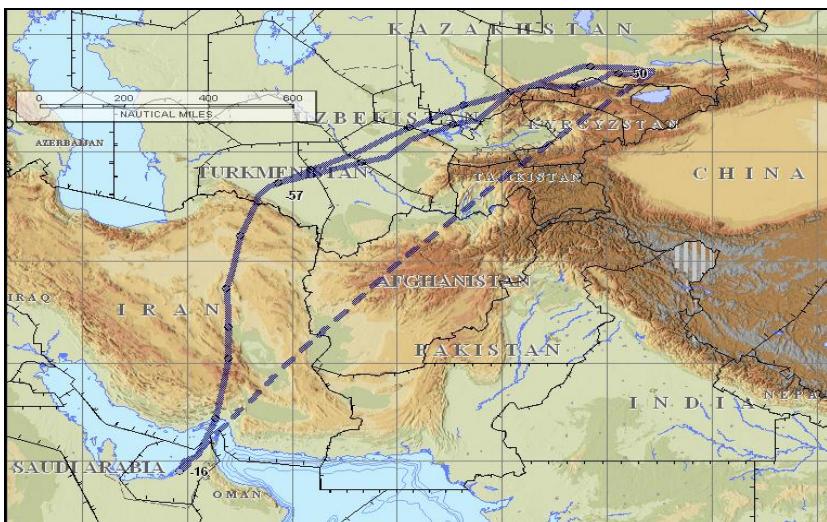
Note: 60 min circles based on OMAA, OEDF, OEMA, OJAI and HEBA
Plain lines are possible routings.
Red line is great circle route.

ENROUTE INFORMATION

- Possible enroute alternates:
 - DOHA (OTBD)
 - BAHRAIN (OBBI)
 - DAMMAM (OEDF)
 - RIYADH (OERK)
 - KUWAIT (OKBK)
 - MADINAH (OEMA)
 - AMMAN (OJAI)
 - HURGHADA (HEGN)
- Highest enroute MORA
 - ◆ AUH – HBE: Most critical MORA 8000 feet at KITOT (route 01) or 10700 feet at KAMIS (route 02)
 - ◆ HBE – AUH: Most critical MORA 9200 feet at NADIK

ALMATY

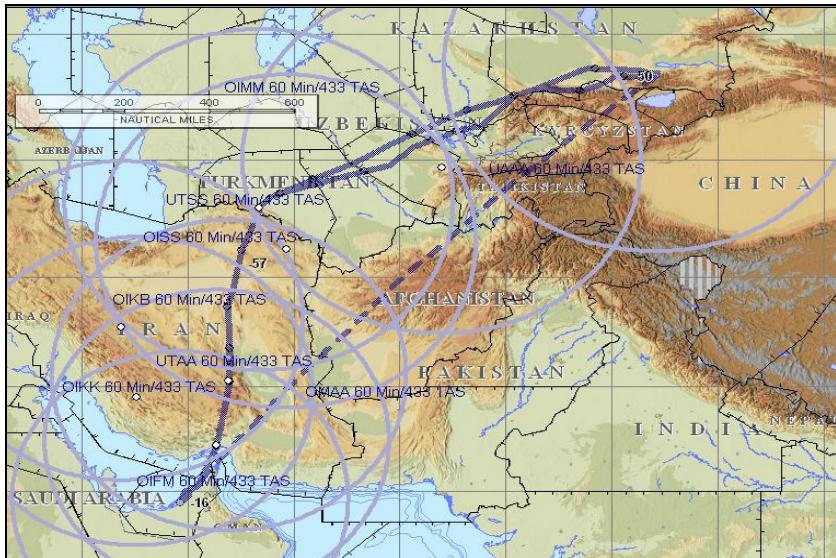
ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.

Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below.

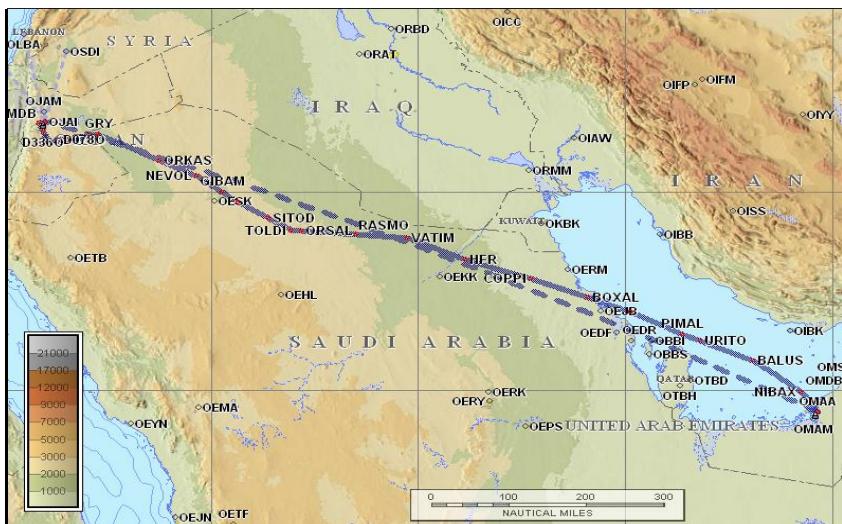
Plain lines are possible routings.

Dotted line is great circle route.

ENROUTE INFORMATION

- Possible enroute alternates:
 - Esfahan – Shahid Beheshti (OIFM)
 - Kerman – (OIKK)
 - Bandar Abbass – (OIKB)
 - Shiraz – (OISS)
 - Mashhad – (OIMM)
 - Samarkand – UTSS
 - Ashgabat – (UTAA)
- Highest enroute GRID MORA
 - MOST CRITICAL MORA 15400 FEET AT EKLAT

AMMAN **ROUTING-GEOGRAPHICAL VIEW**



Note:- Plain lines is possible routing.

Dotted line is great circle routing.

ROUTING-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below(some).

Plain lines is possible routing.

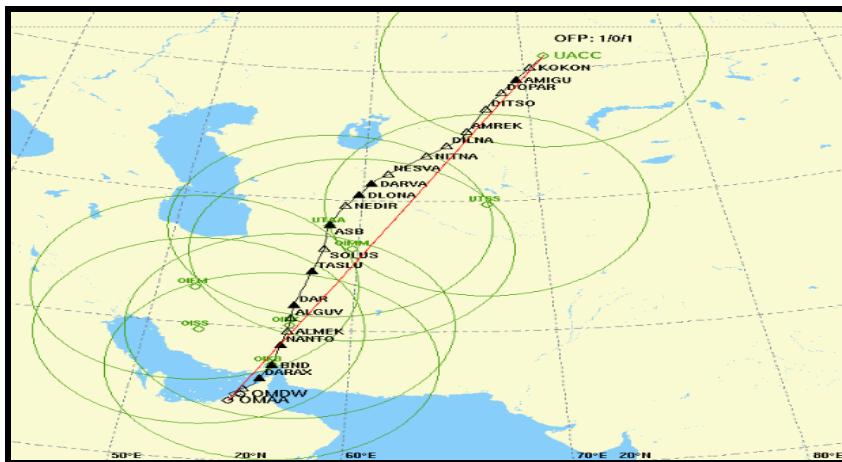
Dotted line is great circle route.

ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - ✈ DOHA (OTBD)
 - ✈ BAHRAIN (OBBI)
 - ✈ KUWAIT (OKBK)
 - ✈ RIYADH (OERK)
- Highest enroute Grid MORA
 - ♦ 8.2 near AMMAN (OJAM)

ASTANA

ROUTING – ENROUTE ALTERNATES VIEW



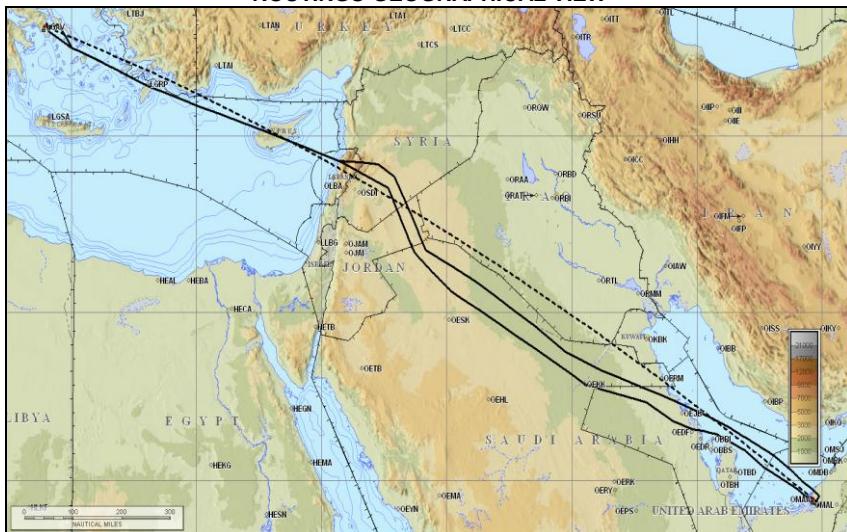
Note: 60 min circles based on possible enroute alternates listed below.
 Red line is the great circle routing.

ENROUTE INFORMATION

- Possible enroute alternates:
 - Esfahan – Shahid Beheshti (OIFM)
 - Kerman – (OIKK)
 - Bandar Abbas – (OIKB)
 - Shiraz – (OISS)
 - Mashhad – (OIMM)
 - Samarkand – (UTSS)
 - Ashgabat – (UTAA)
- Highest enroute GRID MORA
 - MOST CRITICAL MORA
 - AUH-TSE: 14300 FEET AT ASMET
 - TSE-AUH: 16400 FEET AT ALMEK

ATHENS

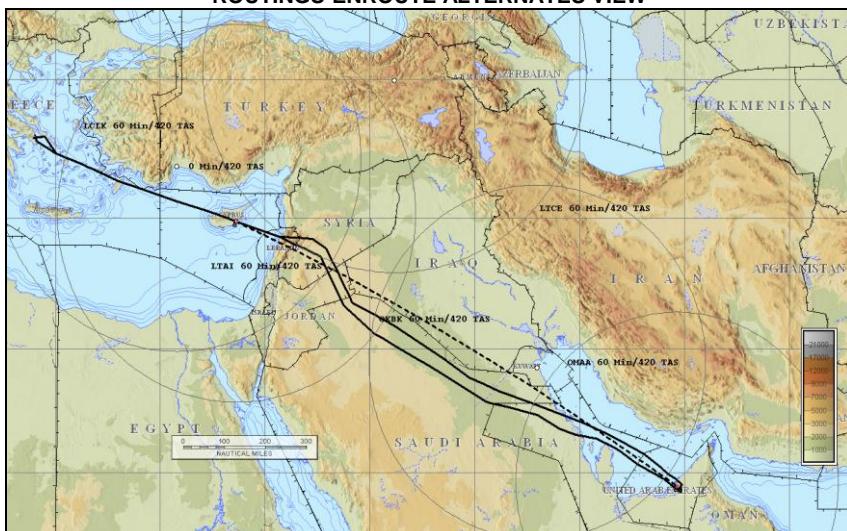
ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.

Doted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below.

Plain lines are possible routings.

Doted line is great circle route.

ENROUTE INFORMATION

➤ Possible enroute alternates:

- DOHA (OTBD)
- KUWAIT (OKBK)
- RIYADH (OERK)
- DAMMAM (OEDM)
- BEIRUT (OLBA)
- DAMASCUS (OSDI)
- AMMAN (OJAI)
- LARNACA (LCLK)
- ANTALYA (LTAI)

➤ Highest enroute GRID MORA

- MOST CRITICAL MORA 12500 FEET AT LATEB

BAGHDAD INTL

ROUTING – ENROUTE ALTERNATES VIEW



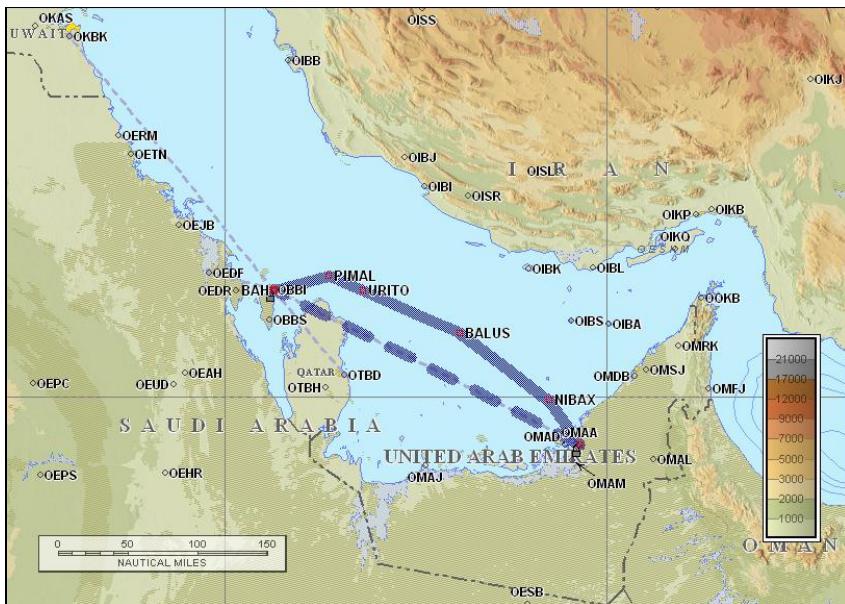
Note: 60 min circles based on OMAA, OEDF, OKBK and ORBI

ENROUTE INFORMATION

- Possible enroute alternates:
 - DOHA (OTBD)
 - BAHRAIN (OBBI)
 - DAMMAM (OEDF)
 - RIYADH (OERK)
 - KUWAIT (OKBK)
- Highest enroute MORA
 - ◆ AUH – BGW: Most critical MORA 2500 feet at GADSI
 - ◆ BGW – AUH: Most critical MORA 2500 feet at OMAA

BAHRAIN

ROUTING-GEOGRAPHICAL VIEW

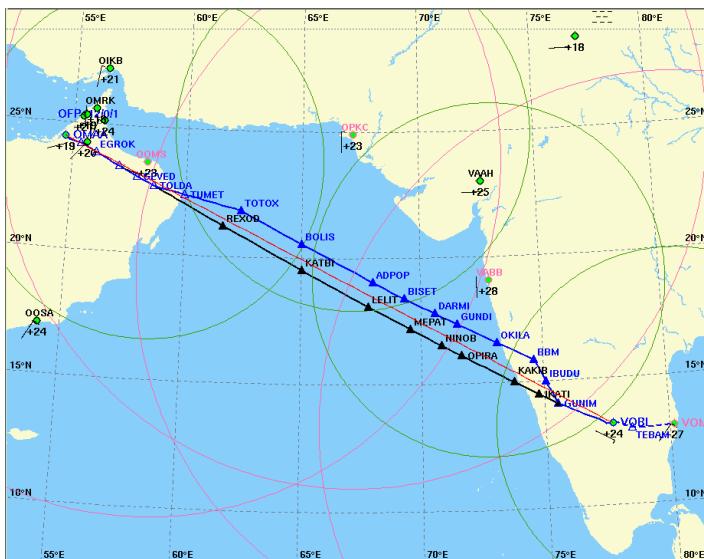


Note:- Plain lines is possible routing.
Dotted line is great circle routing.

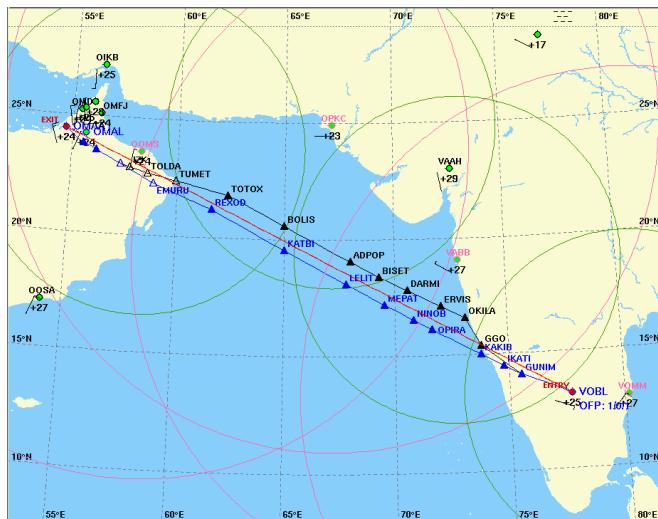
ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - ✈ DOHA (OTBD)
- Highest enroute Grid MORA
 - ♦ 2.5 near BAHRAIN (OBBI).

BANGALORE



Co-routes for AUH-BLR. The red line is the great circle. Green circles are 60 minutes and the pink circles are 120 minutes.



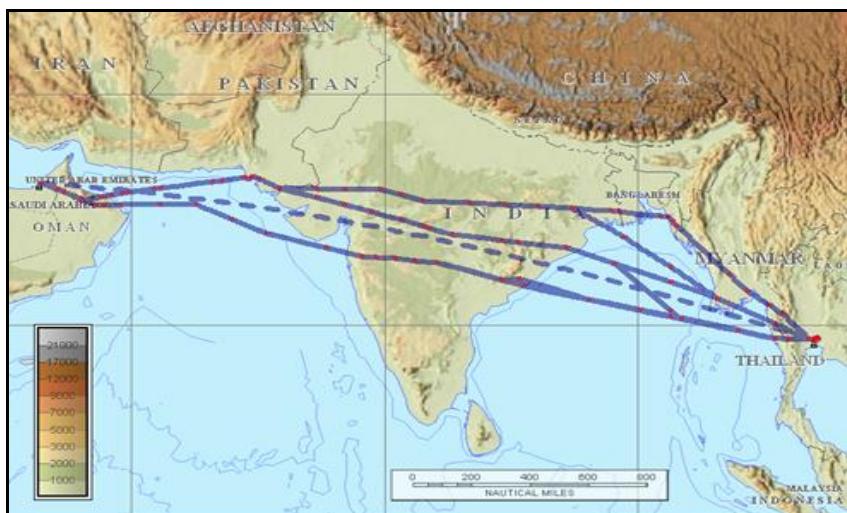
Co-routes for BLR - AUH. The red line is the great circle. Green circles are 60 minutes and the pink circles are 120 minutes.

ENROUTE INFORMATION

- Possible en-route alternates:
 - Muscat – (OOMS)
 - Karachi – (OPKC)
 - Mumbai – (VABB)
 - Ahmedabad – (VAAH)
 - Cochin – (VOCI)
 - Thiruvananthapuram (VOTV)
- Highest en-route GRID MORA 12400 FEET AT LAKLU

BANGKOK

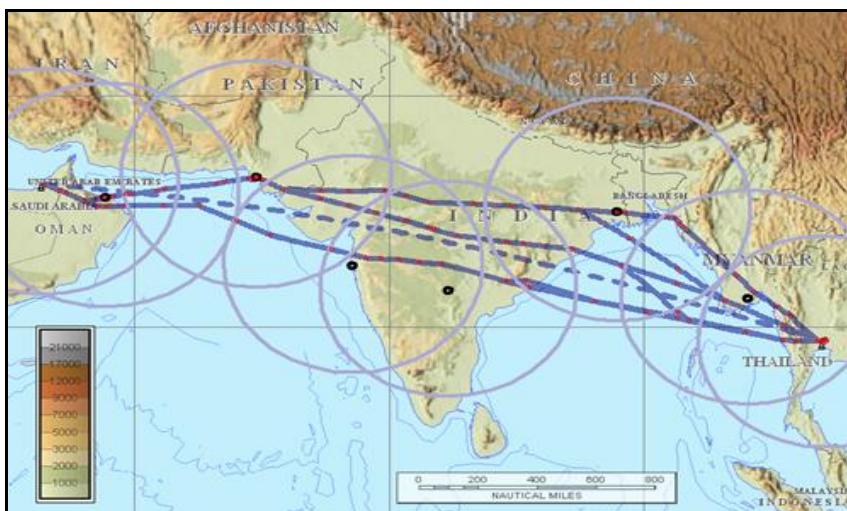
ROUTING-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.

Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below (some).

Plain lines are possible routings.

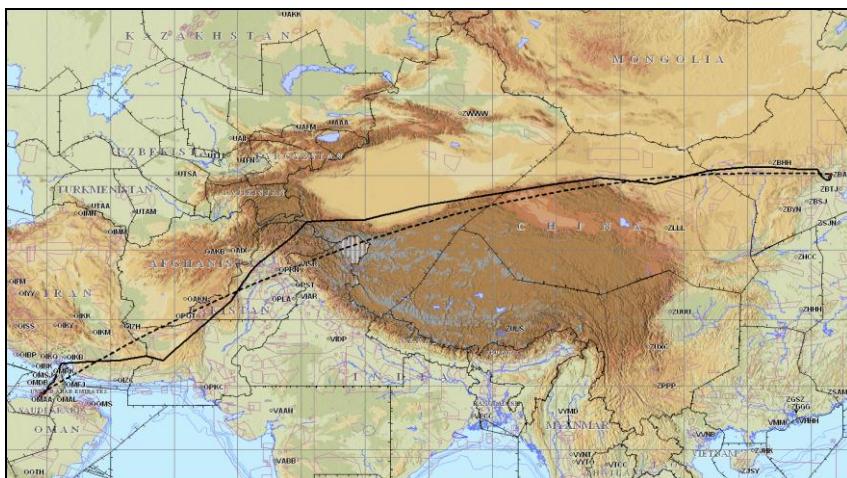
Dotted line is great circle route.

ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - MUSCAT (OOMS)
 - KARACHI (OPKC)
 - AHMEDABAD (VAAH)
 - MUMBAI (VABB)
 - KOLKATA (VECC)
 - CHENNAI (VOMM)
 - MYANMAR (VYYY)
- Highest enroute Grid MORA
 - ◆ 12.4 near Muscat.

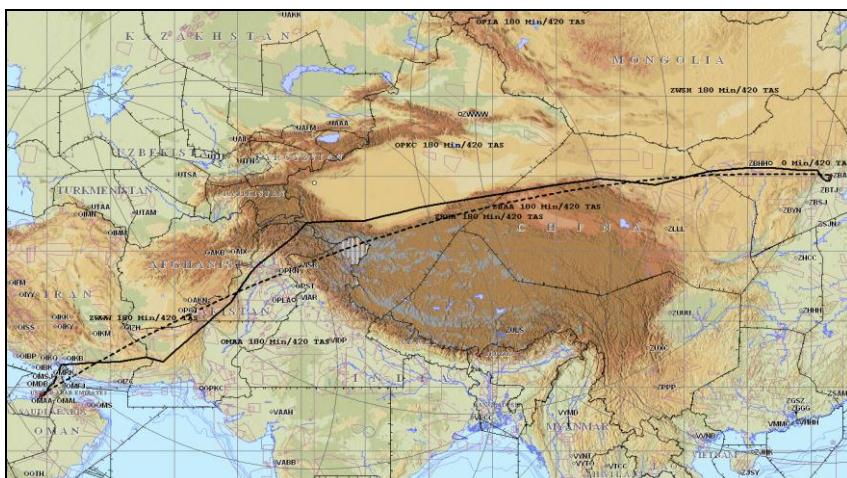
BEIJING

ROUTINGS-GEOGRAPHICAL VIEW

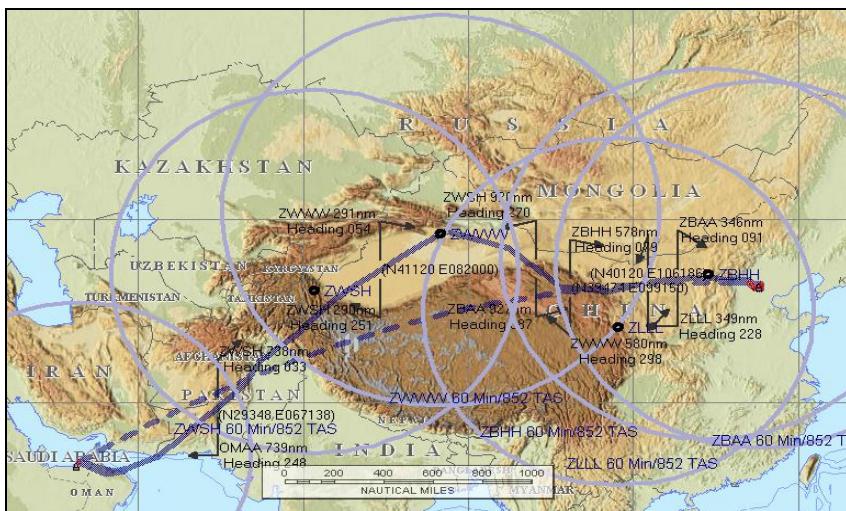


Note:- Plain lines are possible routings.
Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below.
Plain lines are possible routings.
Dotted line is great circle route.



Note:- 120 min circles based on possible enroute alternates listed below.

Plain lines are possible routings.

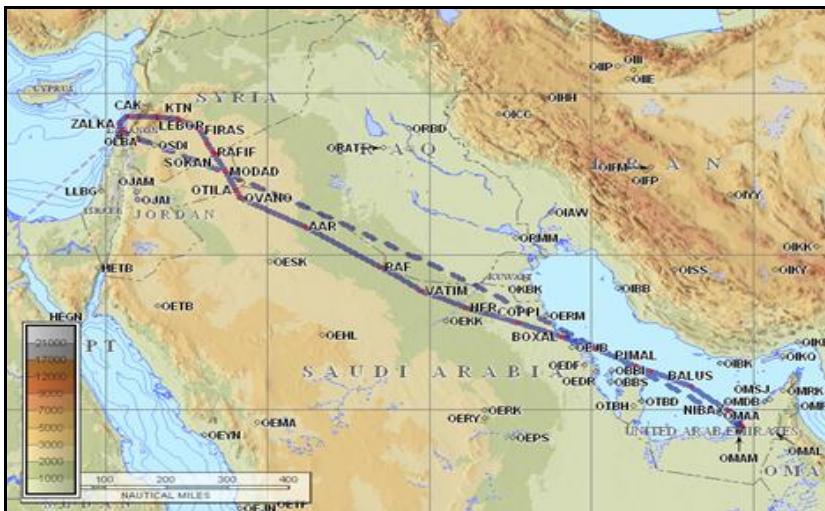
Dotted line is great circle route.

ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - KARACHI (OPKC)
 - PESHAWAR (OPPS)
 - KASHI (ZWSH)
 - URUMQI (ZWWW)
 - HOHHOT (ZBHH)
 - LANZHOU (ZLLL)
- Highest enroute GRID MORA
 - MOST CRITICAL MORA 29000 FEET AT GT

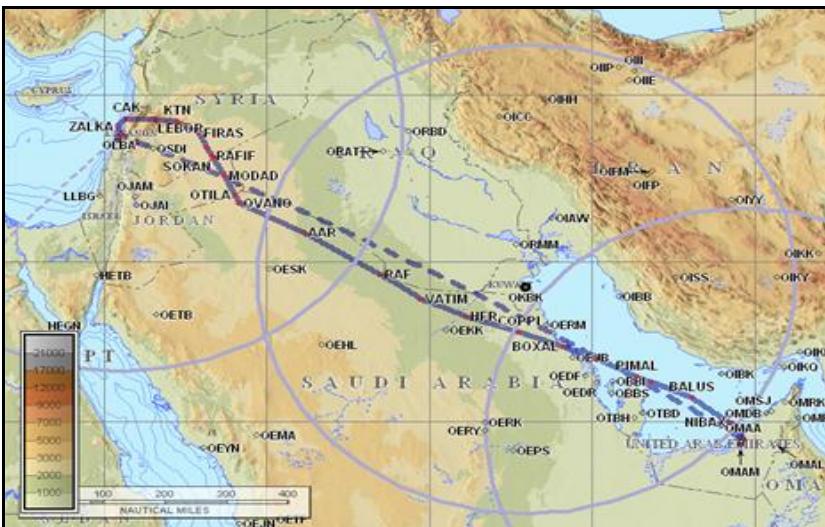
BEIRUT

ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines is possible routing.
Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below(some).
Plain lines is possible routing.
Dotted line is great circle route.



ROUTE INFORMATION MANUAL ROUTE ANALYSIS

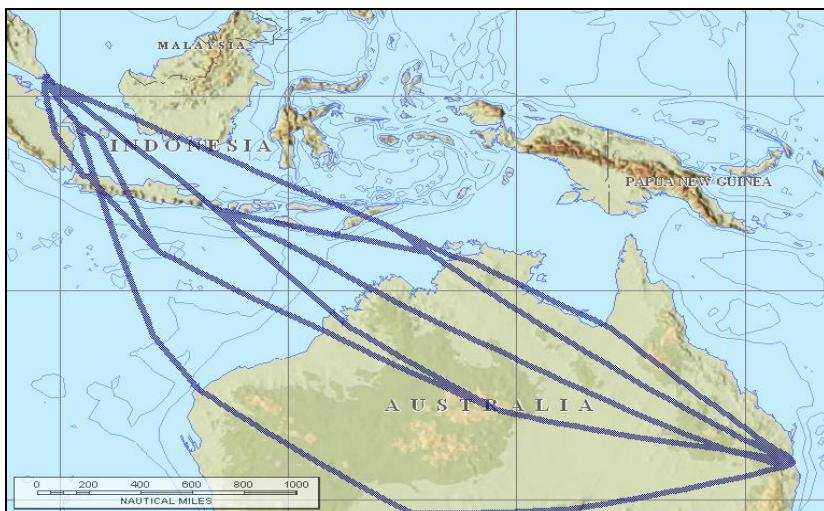
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ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - DOHA (OTBD)
 - BAHRAIN (OBBI)
 - KUWAIT (OKBK)
 - RIYADH (OERK)
 - AMMAN (OJAI)
 - DAMASCUS (OSDI)
- Highest enroute Grid MORA
 - ◆ 12.5 near CAK VOR

BRISBANE

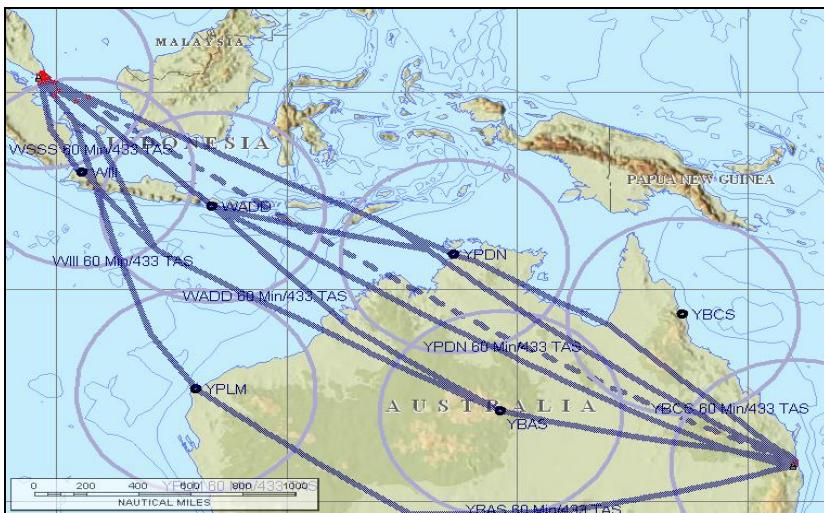
ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.

Dotted line is great circle routing.

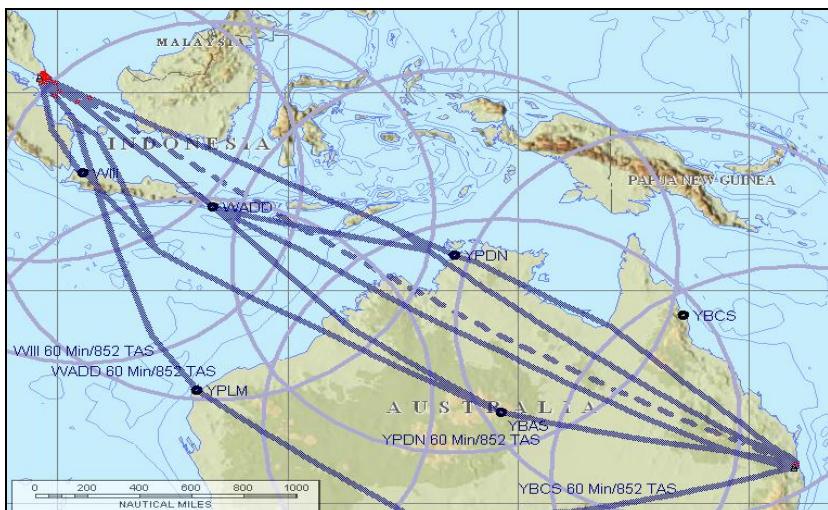
ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below.

Plain lines are possible routings.

Dotted line is great circle route.



Note:-120 min circles based on possible enroute alternates listed below.

Plain lines are possible routings.

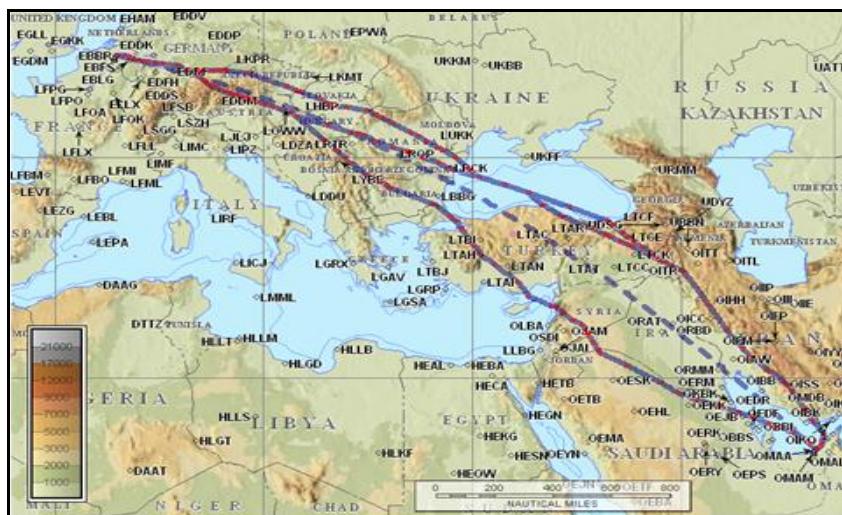
Dotted line is great circle route.

ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - ✈ JAKARTA (WIII)
 - ✈ BALI (WADD)
 - ✈ DARWIN (YPDN)
 - ✈ LEARMONT (YPLM)
 - ✈ ALICE SPRINGS (YBAS)
 - ✈ CAIRNS (YBCS)
- Highest enroute GRID MORA
 - ♦ MOST CRITICAL MORA 14800 FEET AT VOR "BLI"

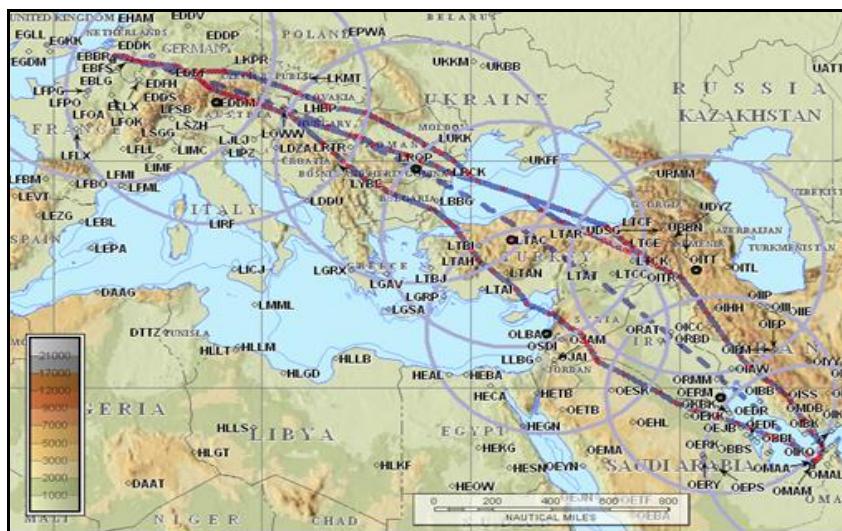
BRUSSELS

ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.
Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below (some).
Plain lines are possible routings. Dotted line is great circle route.

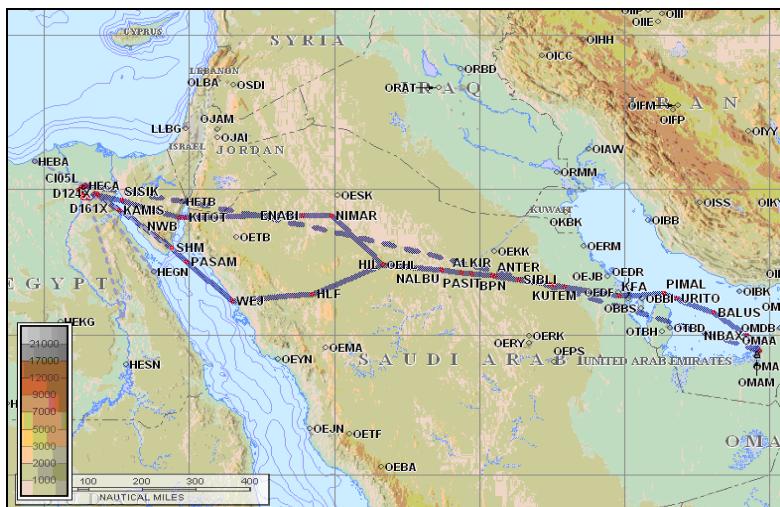
ENROUTE INFORMATION

See *Emergency Escape Routes – Europe Destinations*

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - Southern route (via Saudi Arabia)
 - BAHRAIN (OBBI)
 - RIYADH (OERK)
 - AMMAN (OJAI)
 - DAMASCUS (OSDI)
 - BEIRUT (OLBA)
 - LARNACA (LCLK)
 - ANKARA (LTAC)
 - ANTALYA (LTAI)
 - ISTANBUL (LTBA)
 - ATHENS (LGAV)
 - ROME (LIRF)
 - BUCHAREST (LRP)
 - SOFIA (LBSF)
 - BUDAPEST (LHBP)
 - VIENNA (LOWW)
 - MUNICH (EDDM)
 - FRANKFURT (EDDF)
 - Highest enroute Grid MORA
 - ◆ 14.8 near MUNICH.
 - Northern route (via Iran)
 - DUBAI (OMDB)
 - SHIRAZ (OISS)
 - ESFAHAN (OIFM)
 - TEHRAN (OIII)
 - TABRIZ (OITT)
 - ERZURUM (LTCE)
 - SAMSUN (LTFH)
 - ANKARA (LTAC)
 - ANTALYA (LTAI)
 - ISTANBUL (LTBA)
 - BUCHAREST (LRP)
 - SOFIA (LBSF)
 - BUDAPEST (LHBP)
 - VIENNA (LOWW)
 - MUNICH (EDDM)
 - FRANKFURT (EDDF)
 - Highest enroute Grid MORA
 - ◆ 16.2 near ALTAX (ESFAHAN).

CAIRO

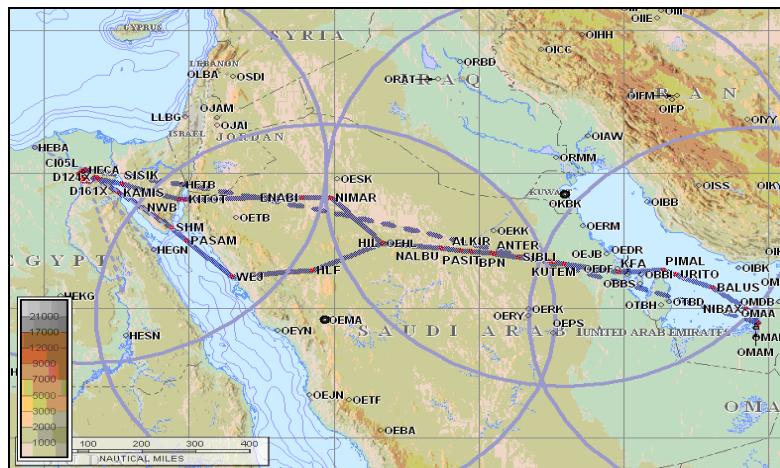
ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.

Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below (some).

Plain lines are possible routings.

Dotted line is great circle route.



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ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - ✈ BAHRAIN (OBBI)
 - ✈ RIYADH (OERK)
 - ✈ AMMAN (OJAI)
 - ✈ MADINAH (OEMA)
 - ✈ HURGHADA (HEGN)

- Highest enroute Grid MORA
 - ◆ 10.8 near TBK VOR.

CALICUT

ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.

Doted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below.

Plain lines are possible routings.

Doted line is great circle route.



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ENROUTE INFORMATION

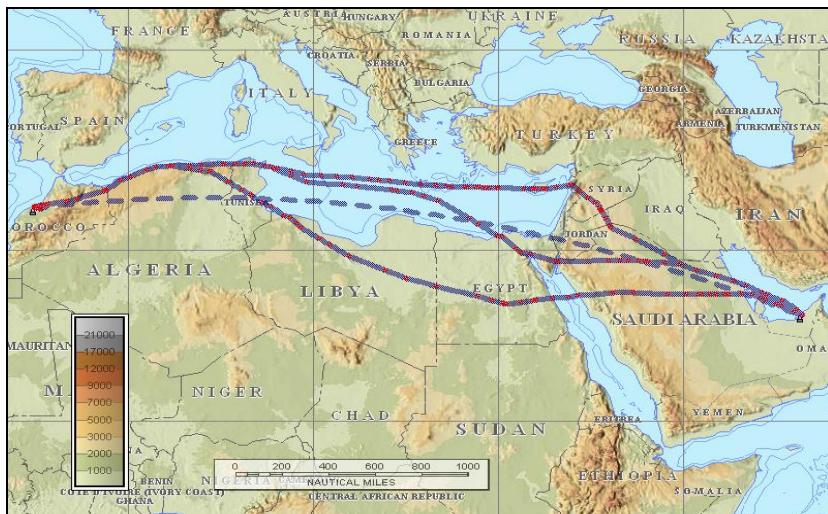
➤ Possible enroute alternates:

- Muscat – (OOMS)
- Karachi – (OPKC)
- Mumbai – (VABB)
- Ahmedabad – (VAAH)
- Cochin – (VOCI)

➤ Highest enroute GRID MORA 12400 FEET AT LAKLU

CASABLANCA

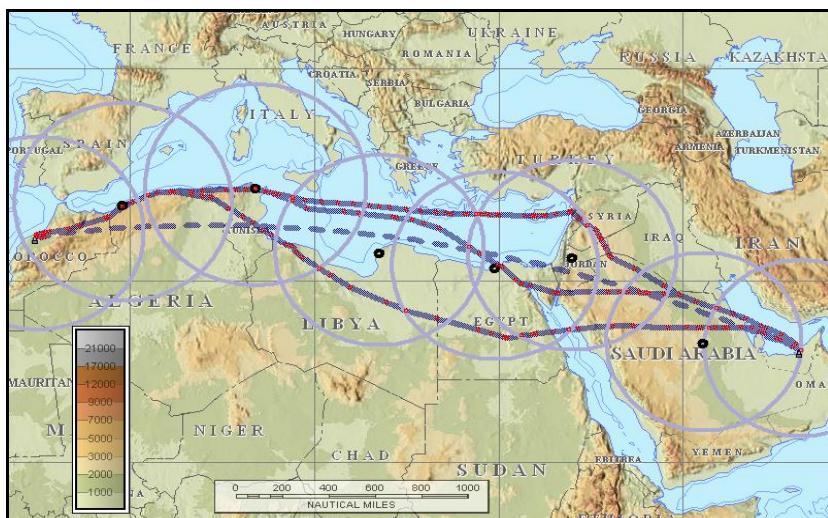
ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.

Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below (some).

Plain lines are possible routings.

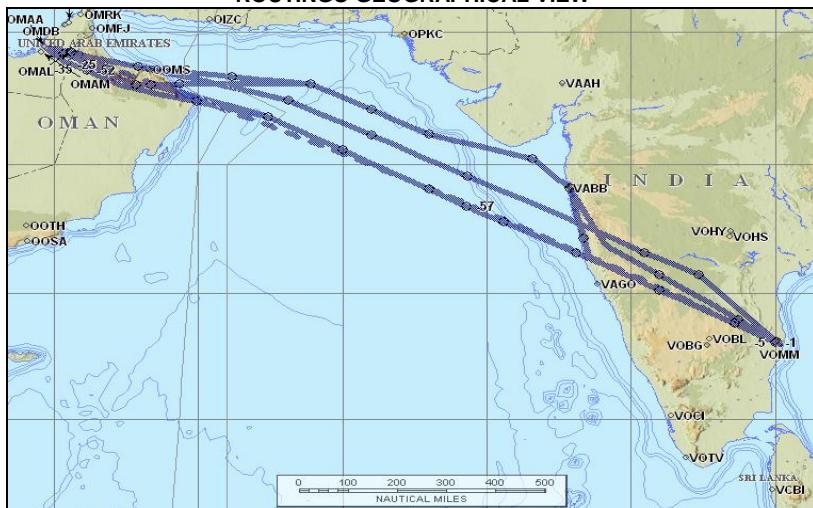
Dotted line is great circle route.

ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - DOHA (OTBD)
 - BAHRAIN (OBBI)
 - DAMMAM (OEDF)
 - RIYADH (OERK)
 - JEDDAH (OEJN)
 - AMMAN (OJAI)
 - DAMASCUS (OSDI)
 - BEIRUT (OLBA)
 - CAIRO (HECA)
 - TRIPOLI (HLLT)
 - MALTA (LMML)
 - PALMA DE MALLORCA (LEPA)
 - BARCELONA (LEBL)
 - TUNIS (DTTA)
 - ALGIERS (DAAG)
- Highest enroute Grid MORA 's
 - ◆ 11.6 near BEIRUT,11.6 near JEDDAH,11.5 near CAIRO,14.6 near FES.

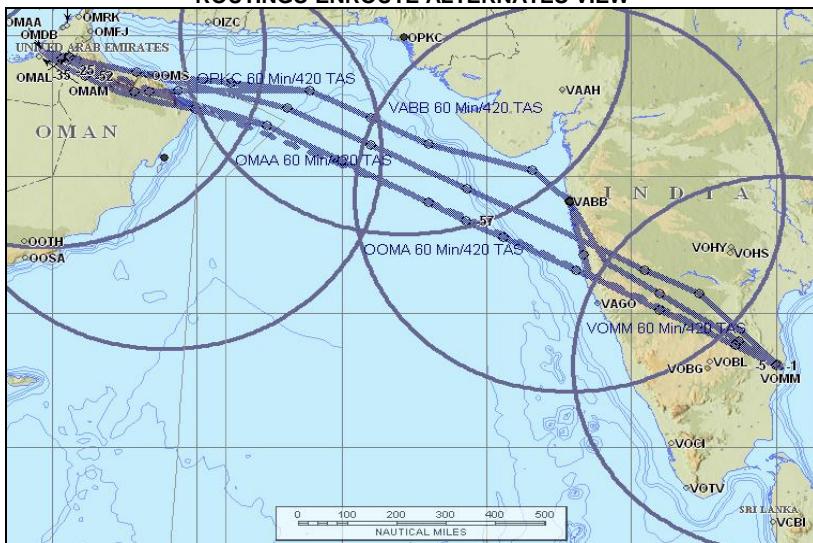
CHENNAI

ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.
Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below.
Plain lines are possible routings.
Dotted line is great circle route.



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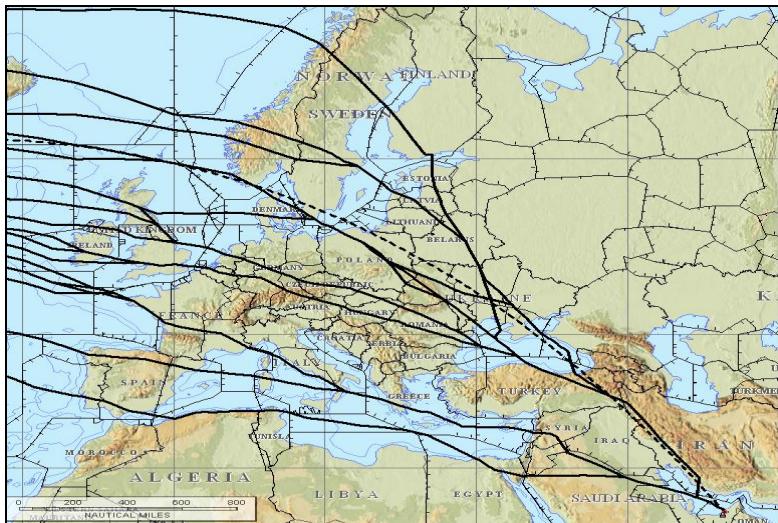
ENROUTE INFORMATION

- Possible enroute alternates:
 - Muscat – (OOMS)
 - Karachi – (OPKC)
 - Mumbai – (VABB)
 - Ahmedabad – (VAAH)
 - Cochin – (VOCI)
- Highest enroute GRID MORA 12400 FEET AT LAKLU

CHICAGO

Note:- For the initial part of the routes please refer to London route analysis.

ROUTINGS OCEANIC CROSSING VIEW





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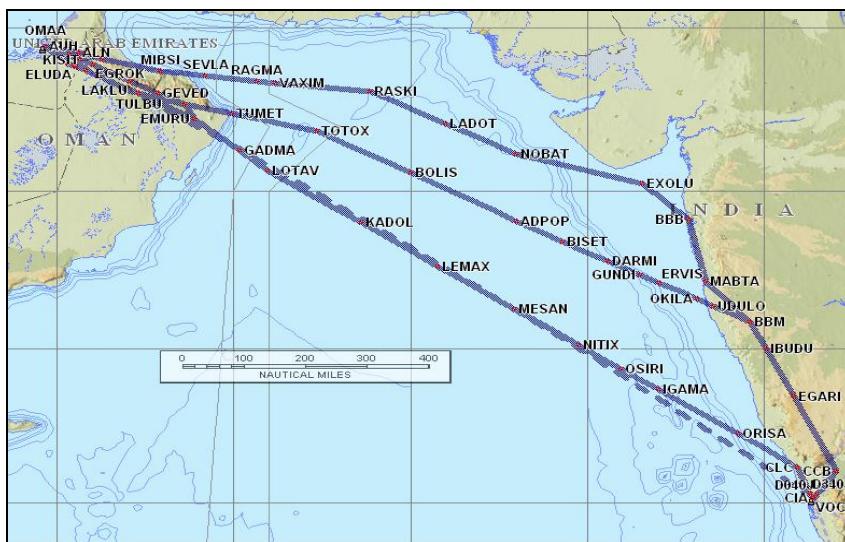
*Note:- These routings are for example only.
For actual tracks refer to NAT TRACK message.*

ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - For the initial part of the flight refer to London route analysis.
 - For the NAT crossing refer to ETOPS Alternates.

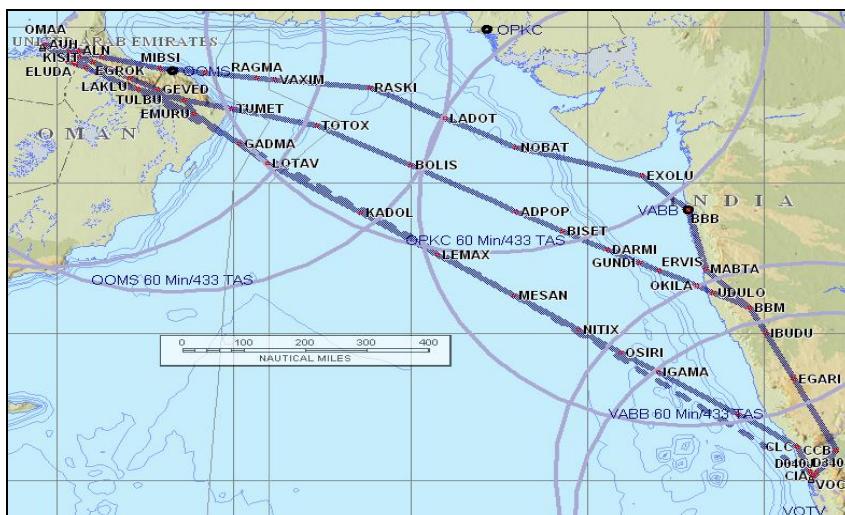
COCHIN

ROUTING-GEOGRAPHICAL VIEW



Note: - Plain lines are possible routings
Dotted line is great circle routing.

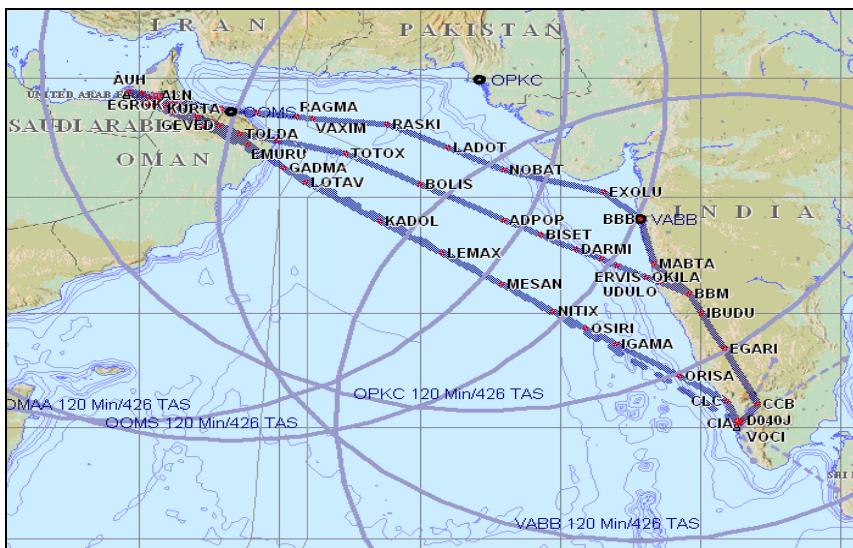
ROUTINGS-ENROUTE ALTERNATES VIEW



Notes: - 60 min circles based on possible enroute alternates listed below.
Plain lines are possible routings.

Dotted line is great circle route.

ROUTINGS-ETOPS ALTERNATES VIEW



Notes: - 120 min circles based on possible ETOPS alternates.

Plain lines are possible routings.

Dotted line is great circle route.

ENROUTE INFORMATION

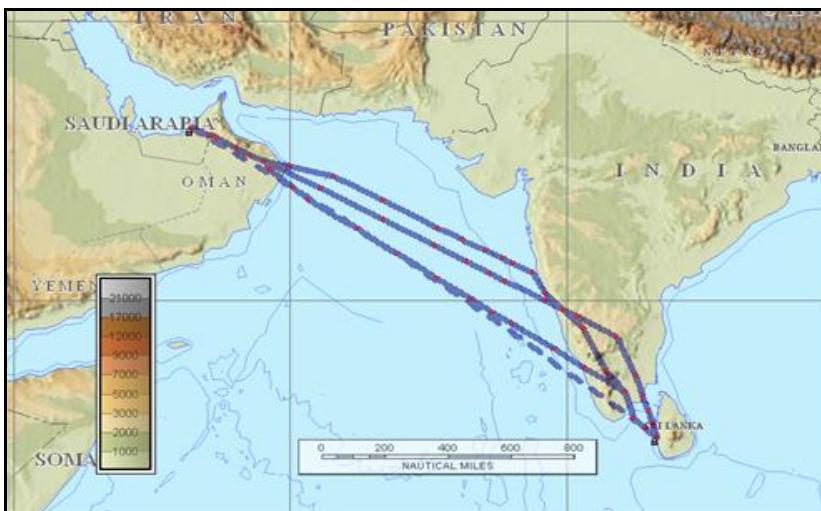
- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)

- Muscat – (OOMS)
- Karachi – (OPKC)
- Mumbai – (VABB)
- Ahmedabad – (VAAH)
- Thiruvananthapuram – (VOTV)
- Katunayake / Colombo – (VCBI)

- Highest enroute Grid MORA
 - ◆ MOST CRITICAL MORA 12400 FEET AT LAKLU.

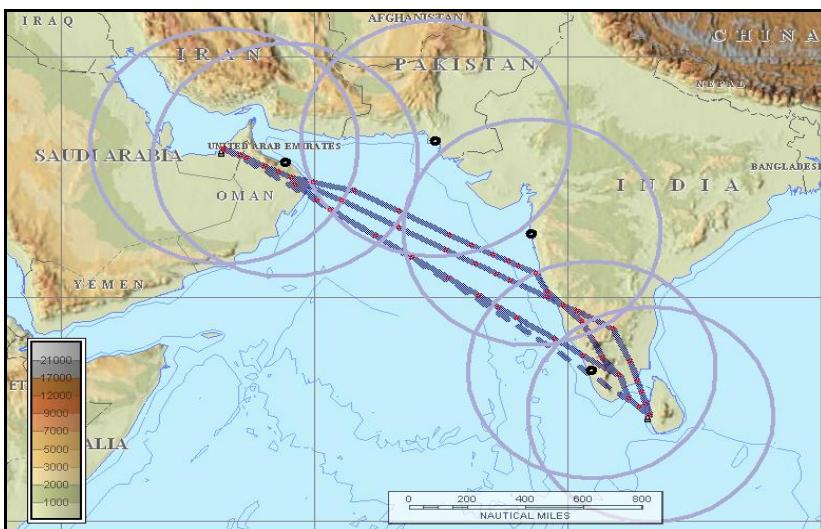
COLOMBO

ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.
Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below.
Plain lines are possible routings.



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Dotted line is great circle route.

ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - ✈ MUSCAT (OOMS)
 - ✈ KARACHI (OPKC)
 - ✈ MUMBAI (VABB)
 - ✈ COCHIN (VOCI)
 - ✈ TRIVANDRUM (VOTV)
 - ✈ CHENNAI (VOMM)
 - ✈ AHMEDABAD (VAAH)
- Highest enroute Grid MORA
 - ◆ 12.4 near Muscat.

DAMASCUS

ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines is possible routing.

Dotted line is great circle routing.

ROUTING-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below(some).

Plain lines is possible routing.



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Dotted line is great circle route.

ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - ✈ DOHA (OTBD)
 - ✈ BAHRAIN (OBBI)
 - ✈ KUWAIT (OKBK)
 - ✈ RIYADH (OERK)
 - ✈ AMMAN (OJAI)
- Highest enroute Grid MORA
 - ◆ 10.6 near DAMASCUS(OSDI).

DAMMAN

ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain line is possible routing.
Dotted line is great circle routing.

ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - ✈ DOHA (OTBD)
 - ✈ BAHRAIN (OBBI)
- Highest enroute Grid MORA
 - ♦ 2.5 near BAHRAIN (OBBI).



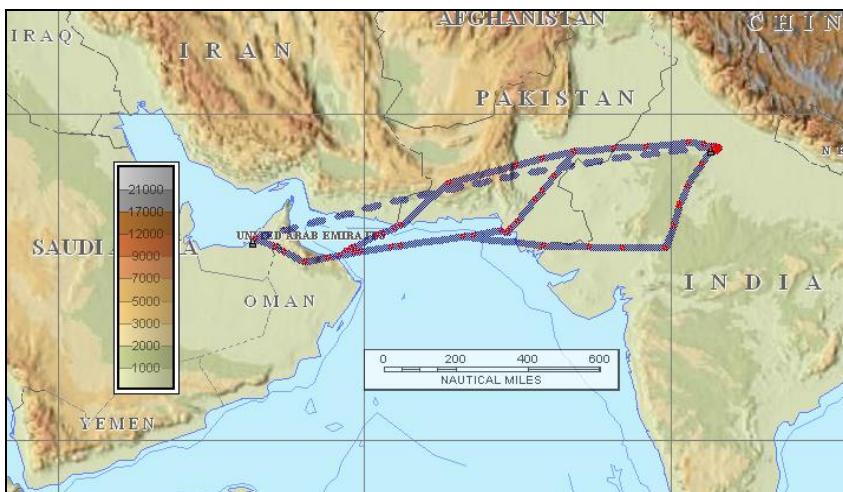
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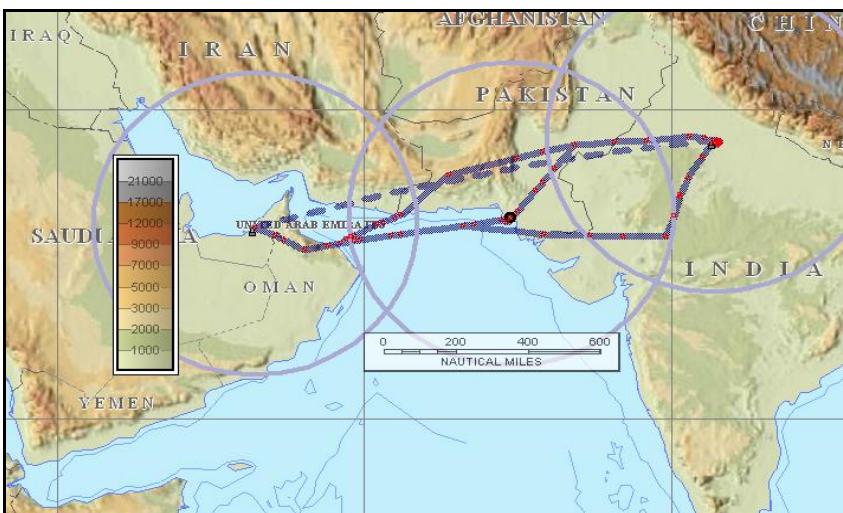
DELHI

ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.
Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below(some).
Plain lines are possible routings.
Dotted line is great circle route.

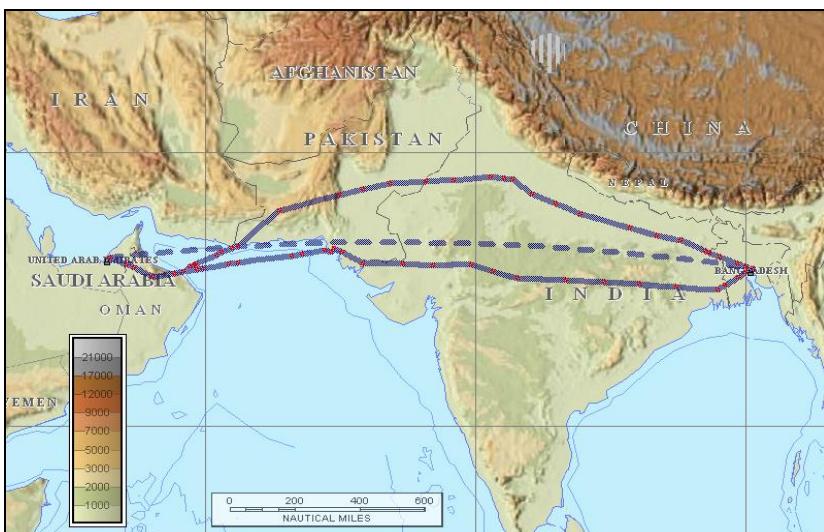
ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - AI AIN (OMAL)
 - MUSCAT (OOMS)
 - KARACHI (OPKC)
 - MUMBAI (VABB)

- Highest enroute Grid MORA
 - ◆ 12.4 near MUSCAT.

DHAKA

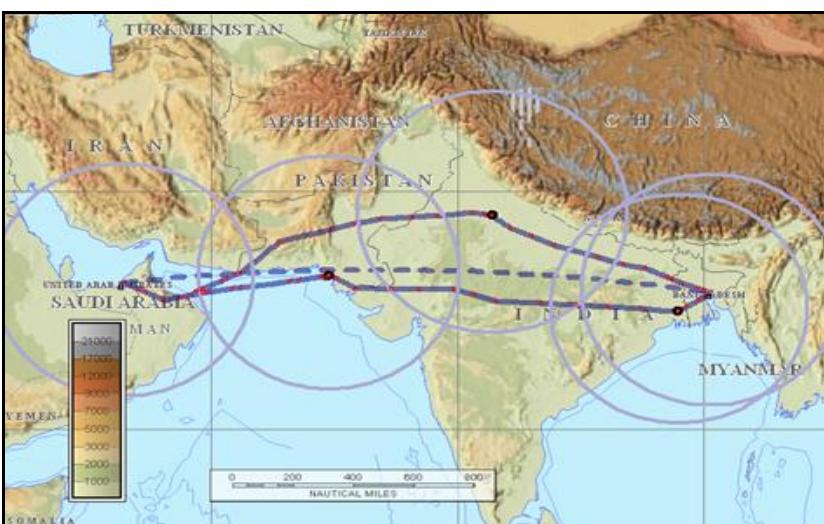
ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.

Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below(some).

Plain lines are possible routings.



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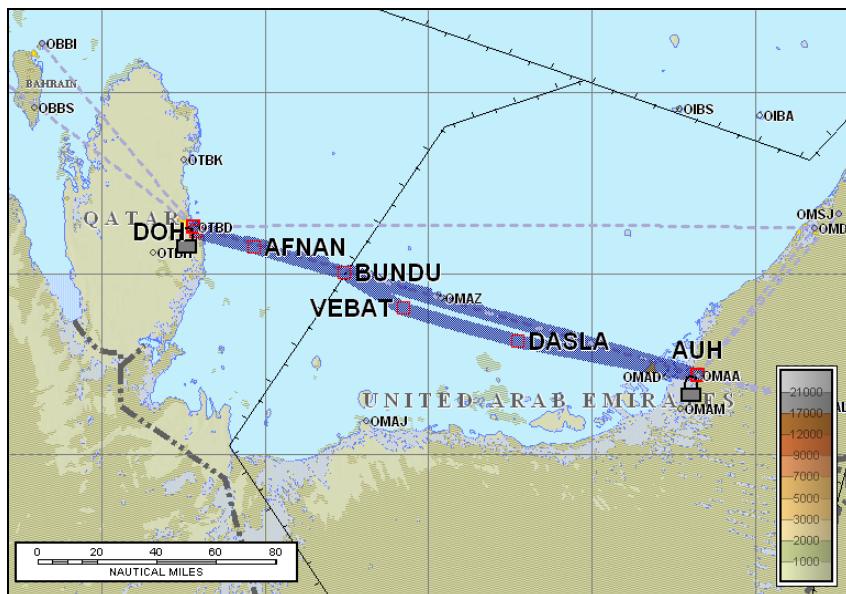
Dotted line is great circle route.

ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - ✈ AI AIN (OMAL)
 - ✈ MUSCAT (OOMS)
 - ✈ KARACHI (OPKC)
 - ✈ MUMBAI (VABB)
 - ✈ DELHI (VIDP)
 - ✈ KOLKATA (VECC)
- Highest enroute Grid MORA
 - ◆ 12.4 near MUSCAT.

DOHA

ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.
Dotted line is great circle routing.

ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
- ABU DHABI (OMAA)
- Highest enroute Grid MORA
 - ◆ 2.3 near DOHA.



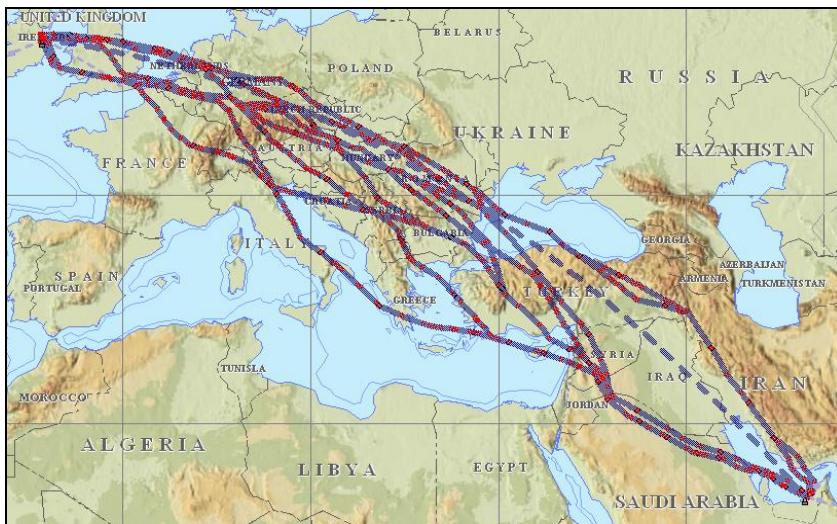
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DUBLIN

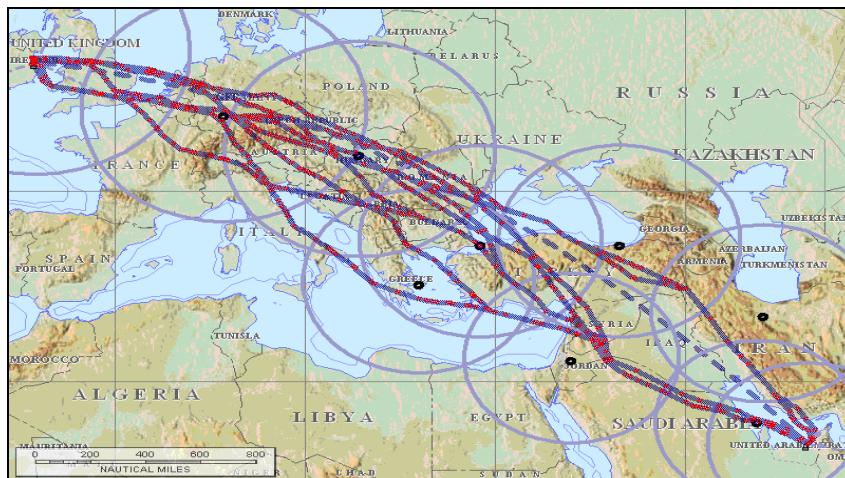
ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.

Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below.

Plain lines are possible routings.

Dotted line is great circle route.

ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - Tehran – Imam Khamaini Intl (OIE)
 - Kuwait Intl (OKBK)
 - Amman – Queen Alia Intl (OJAI)
 - Trabzon (LTCG)
 - Ankara (LTAC)
 - Istanbul (LTBA)
 - Athens (LGAV)
 - Rome – Fiumicino (LIRA)
 - Milan – Malpensa (LIMC)
 - Budapest (LHBP)
 - Geneva (LSGG)
 - Munich (EDDM)
 - Frankfurt (EDDF)
 - Paris – Charles de Gaulle (LFPG)
 - Brussels (EBBR)
 - London – Gatwick (EGKK)
 - Manchester (EGCC)
- Highest enroute GRID MORA
 - ◆ **MOST CRITICAL MORA 17000 FEET AT MESVI.**

ERBIL INTL

ROUTING – ENROUTE ALTERNATES VIEW



Note: 60 min circles based on OMAA, OEDF, OKBK and ORER

ENROUTE INFORMATION

- Possible enroute alternates:
 - ✈ DOHA (OTBD)
 - ✈ BAHRAIN (OBBI)
 - ✈ DAMMAM (OEDF)
 - ✈ RIYADH (OERK)
 - ✈ KUWAIT (OKBK)
- Highest enroute MORA
 - ◆ AUH – EBL: Most critical MORA 5200 feet at ORER
 - ◆ EBL – AUH: Most critical MORA 5600 feet at OTALO

FRANKFURT

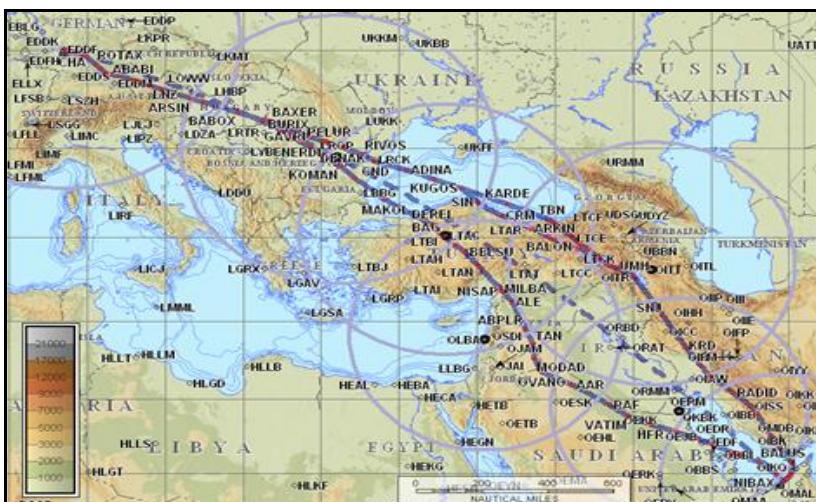
ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.

Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below (some).

Plain lines are possible routings.

Dotted line is great circle route.

ENROUTE INFORMATION

See *Emergency Escape Routes – Europe Destinations*

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)

- Southern route (via Saudi Arabia)
 - BAHRAIN (OBBI)
 - RIYADH (OERK)
 - AMMAN (OJAI)
 - DAMASCUS (OSDI)
 - BEIRUT (OLBA)
 - LARNACA (LCLK)
 - ANKARA (LTAC)
 - ANTALYA (LTAI)
 - ISTANBUL (LTBA)
 - ATHENS (LGAV)
 - ROME (LIRF)
 - BUCHAREST (LROP)
 - SOFIA (LBSF)
 - BUDAPEST (LHBP)
 - VIENNA (LOWW)
 - MUNICH (EDDM)

- Highest enroute Grid MORA
 - ◆ 14.8 near MUNICH.

- Northern route (via Iran)
 - DUBAI (OMDB)
 - SHIRAZ (OISS)
 - ESFAHAN (OIFM)
 - TEHRAN (OIII)
 - TABRIZ (OITT)
 - ERZURUM (LTCE)
 - SAMSUN (LTFH)
 - ANKARA (LTAC)
 - ANTALYA (LTAI)
 - ISTANBUL (LTBA)
 - BUCHAREST (LROP)
 - SOFIA (LBSF)
 - BUDAPEST (LHBP)
 - VIENNA (LOWW)
 - MUNICH (EDDM)

- Highest enroute Grid MORA
 - ◆ 16.2 near ALTAX (ESFAHAN).

GENEVA

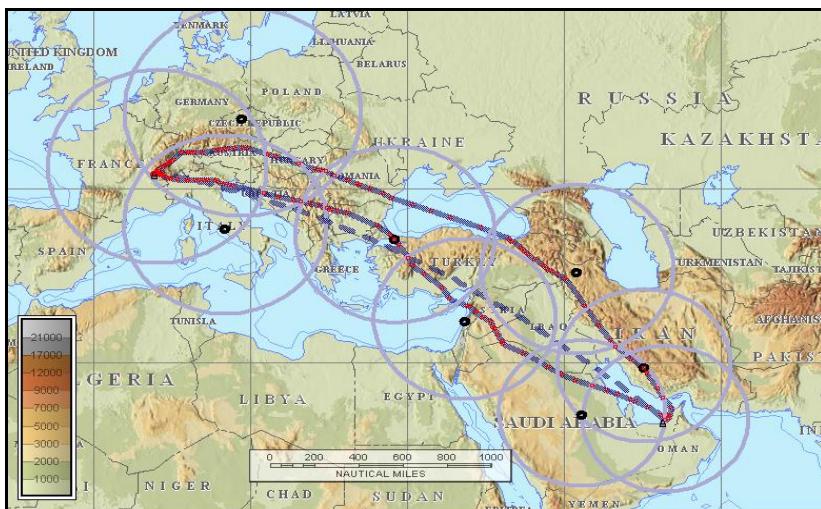
ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.

Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below (some).

Plain lines are possible routings.

Dotted line is great circle route.

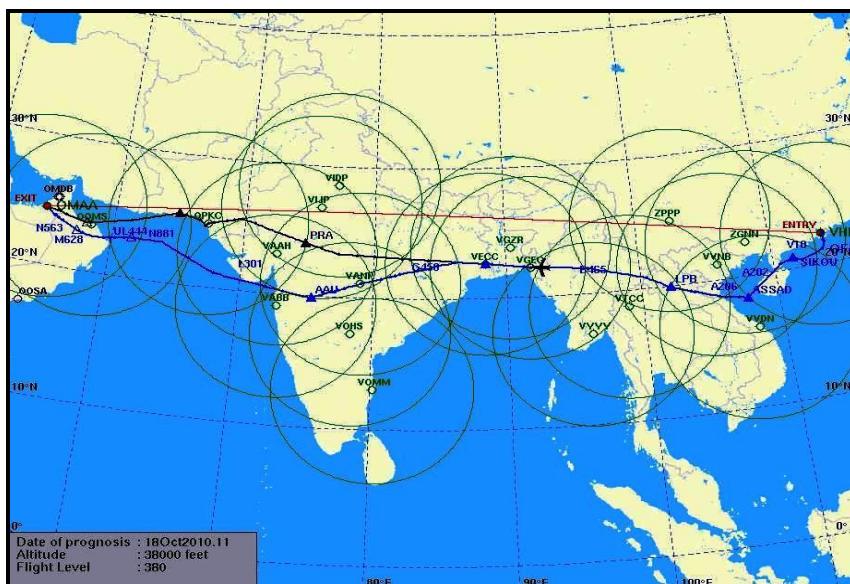
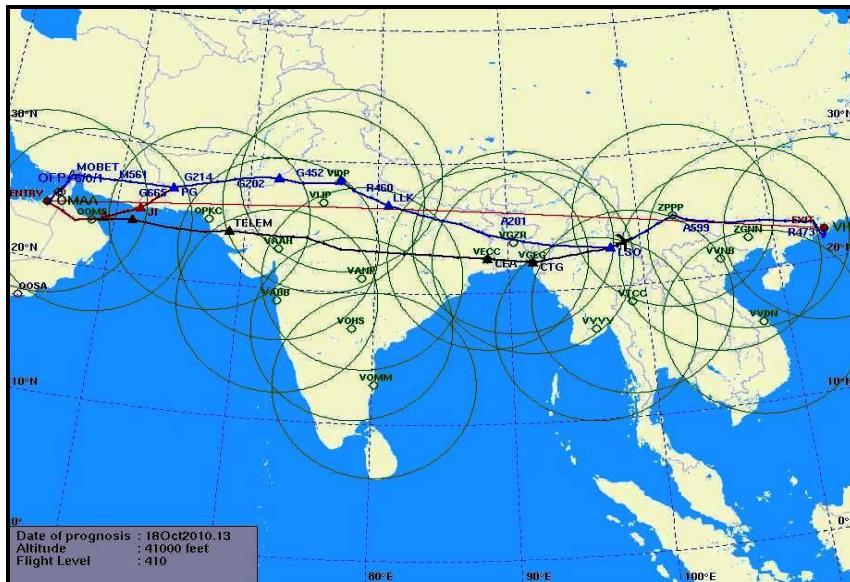
ENROUTE INFORMATION

See Emergency Escape Routes – Europe Destinations

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - Southern route (via Saudi Arabia)
 - ➔ BAHRAIN (OBBI)
 - ➔ RIYADH (OERK)
 - ➔ AMMAN (OJAI)
 - ➔ DAMASCUS (OSDI)
 - ➔ BEIRUT (OLBA)
 - ➔ LARNACA (LCLK)
 - ➔ ANKARA (LTAC)
 - ➔ ANTALYA (LTAI)
 - ➔ ISTANBUL (LTBA)
 - ➔ BUCHAREST (LROP)
 - ➔ SOFIA (LBSF)
 - ➔ BUDAPEST (LHBP)
 - ➔ VIENNA (LOWW)
 - ➔ VENICE (LIPZ)
 - ➔ MUNICH (EDDM)
 - ➔ ZURICH (LSZH)
 - ➔ MILAN (LIMC)
 - Highest enroute Grid MORA
 - ◆ 14.8 near MUNICH, 18.3 near GENEVA.
 - Northern route (via Iran)
 - ➔ DUBAI (OMDB)
 - ➔ SHIRAZ (OISS)
 - ➔ ESFAHAN (OIFM)
 - ➔ TEHRAN (OIII)
 - ➔ TABRIZ (OITT)
 - ➔ ERZURUM (LTCE)
 - ➔ SAMSUN (LTFH)
 - ➔ ANKARA (LTAC)
 - ➔ ANTALYA (LTAI)
 - ➔ ISTANBUL (LTBA)
 - ➔ BUCHAREST (LROP)
 - ➔ SOFIA (LBSF)
 - ➔ BUDAPEST (LHBP)
 - ➔ VIENNA (LOWW)
 - ➔ MUNICH (EDDM)
 - ➔ ZURICH (LSZH)
 - ➔ MILAN (LIMC)
 - Highest enroute Grid MORA's
 - ◆ 16.2 near ALTAX (ESFAHAN), 18.3 near GENEVA.

HONG KONG

ROUTING – ENROUTE ALTERNATES VIEW



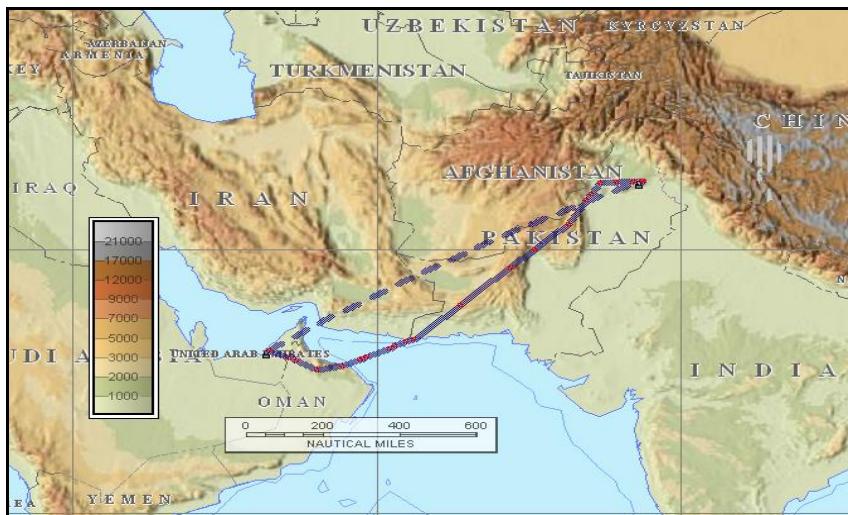
*Note: Plain lines are possible routings.
Red line is great circle route.*

ENROUTE INFORMATION

- AUH-HKG-AUH is normally a non ETOPS sector. Possible enroute alternates:
 - MUSCAT (OOMS)
 - KARACHI (OPKC)
 - AHMEDABAD (VAAH)
 - MUMBAI (VABB)
 - DELHI (VIDP)
 - HYDERABAD (VOHS)
 - KOLKATA (VECC)
 - DHAKA (VGHS)
 - CHITTAGONG (VGEG)
 - CHIANG MAI (VTCC)
 - KUNMING (ZPPP)
 - HANOI (VVNB)
 - DA NANG (VVDN)
 - NANNING (ZGNN)
- Highest enroute MORA
 - ◆ AUH – HKG: Most critical MORA 13000 feet at MAKUL
 - ◆ HKG – AUH: Most critical MORA 11100 feet at APAGO (Route 01) and 11800 feet at MEKNA (Route 02)

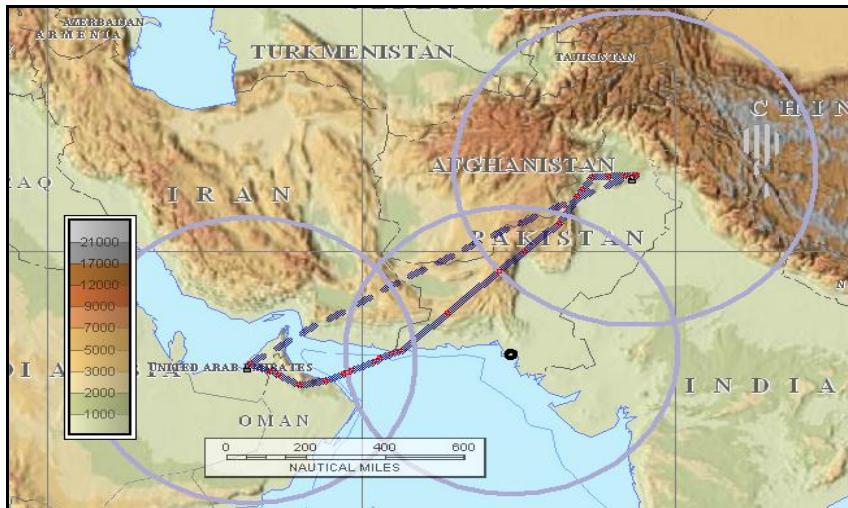
ISLAMABAD

ROUTING-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.
Dotted line is great circle routing.

ROUTING-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below.

*Plain lines are possible routings.
Dotted line is great circle route.*

ENROUTE INFORMATION

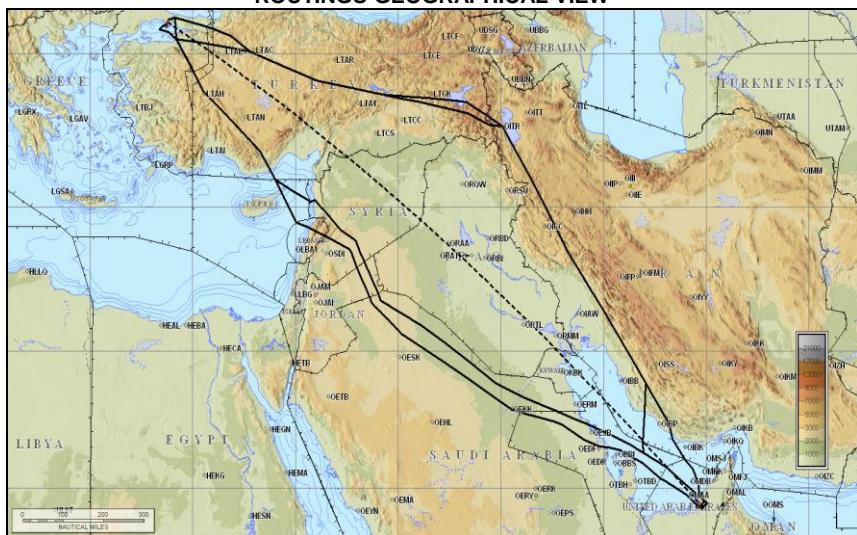
See Emergency Escape Routes – PAKISTAN Destinations.

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - ✈ AI AIN (OMAL)
 - ✈ MUSCAT (OOMS)
 - ✈ KARACHI (OPKC)

- Highest enroute Grid MORA's
 - ◆ 12.4 near MUSCAT, 14.3 near QUETTA VOR.

ISTANBUL

ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.

Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below.

Plain lines are possible routings.

Dotted line is great circle route.



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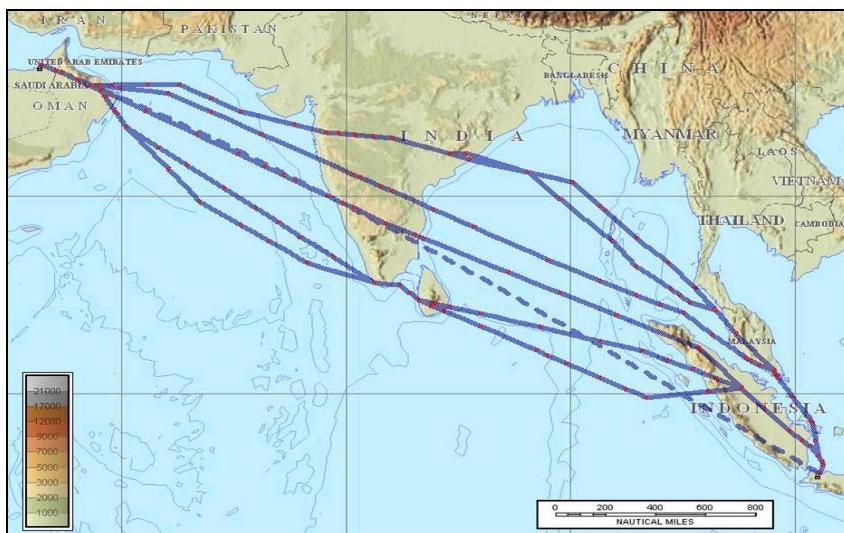
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ENROUTE INFORMATION

- Possible enroute alternates:
 - DOHA (OTBD)
 - KUWAIT (OKBK)
 - JEDDAH (OEJN)
 - ANKARA (LTAC)
 - BEIRUT (OLBA)
 - LARNACA (LCLK)
 - ANTALYA (LTAI)
- Highest enroute GRID MORA
 - MOST CRITICAL MORA 17000 FEET AT DASDO

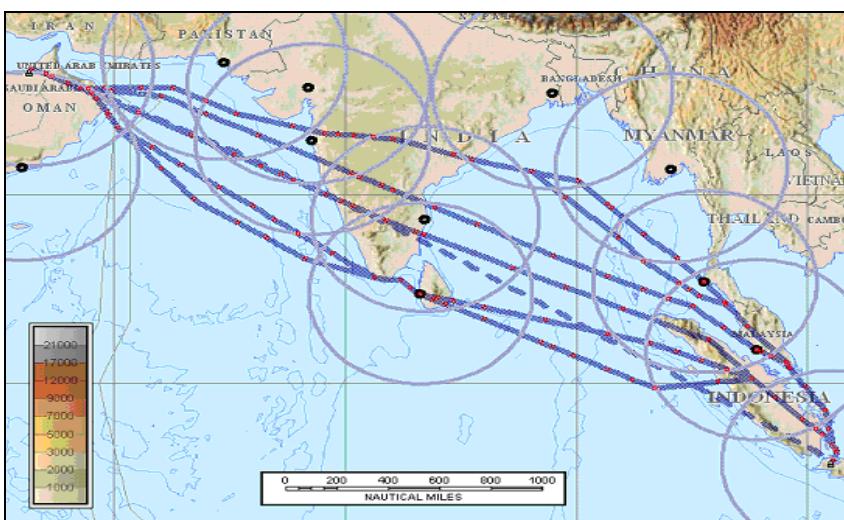
JAKARTA

ROUTINGS-GEOGRAPHICAL VIEW



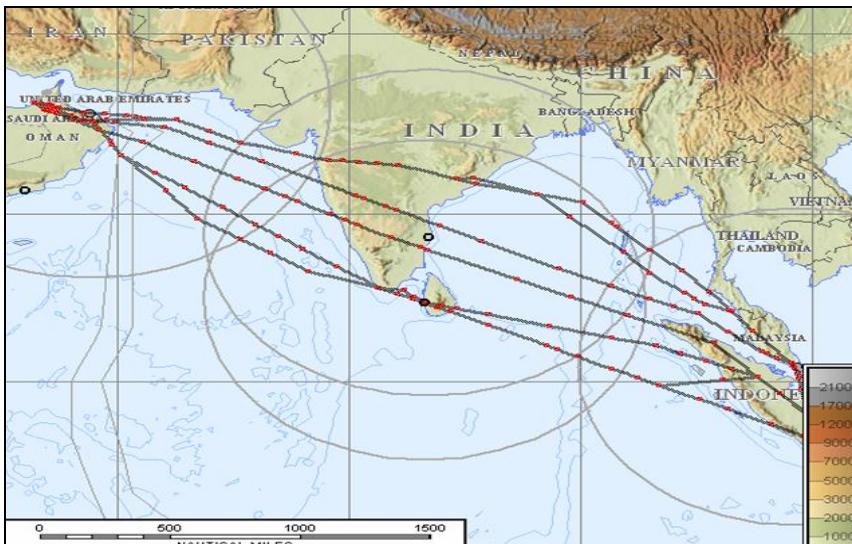
Note:- Plain lines are possible routings.
Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed above
Plain lines are possible routings.
Dotted line is great circle route.

ROUTINGS-ETOPS 120 MIN VIEW



Note:- 120 min circles based on OMAA/VCFI/VOMM/WIII.

Plain lines are possible routings.

Dotted line is great circle route.

ENROUTE INFORMATION

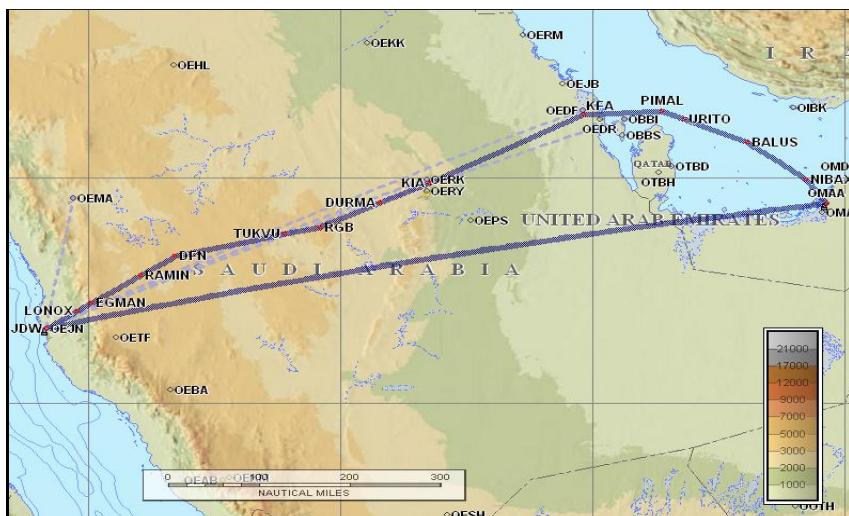
- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - MUSCAT (OOMS)
 - KARACHI (OPKC)
 - AHMEDABAD (VAAH)
 - MUMBAI (VABB)
 - KOLKATA (VECC)
 - CHENNAI (VOMM)
 - COLOMBO (VCBI)
 - MYANMAR (VYYY)
 - BANGKOK (VTBD)
 - PENANG INT'L (WMKP)
 - KUALA LUMPUR (WMKK)
 - SINGAPORE (WSSS)

Note: PORT BLAIR(VOPB) not being adequate for Etihad operation, this route is either ETOPS or non-ETOPS via the North (Myanmar & Thailand)

- Highest enroute Grid MORA
 - ◆ 14.5 near Medan (North of Indonesia).

JEDDAH

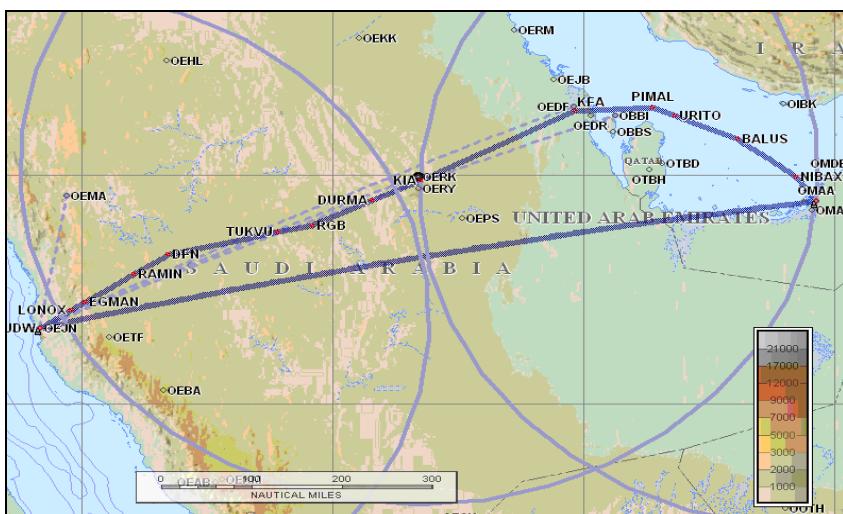
ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.

Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below.

Plain lines are possible routings.

Dotted line is great circle route.



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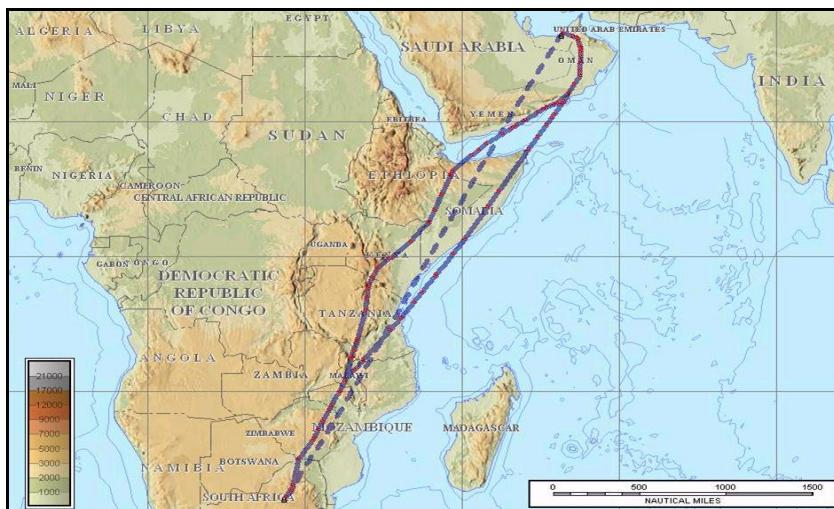
ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - ✈ DOHA (OTBD)
 - ✈ BAHRAIN (OBBI)
 - ✈ DAMMAM (OEDF)
 - ✈ RIYADH (OERK)

- Highest enroute Grid MORA
 - ◆ 8.5 near EGMAN (JEDDAH) and 11.4 near TAIF VOR.

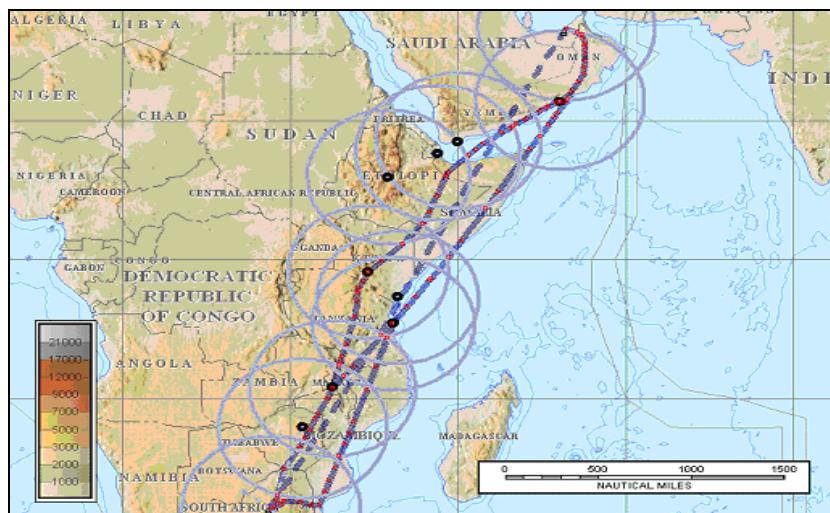
JOHANNESBURG

ROUTINGS-GEOGRAPHICAL VIEW



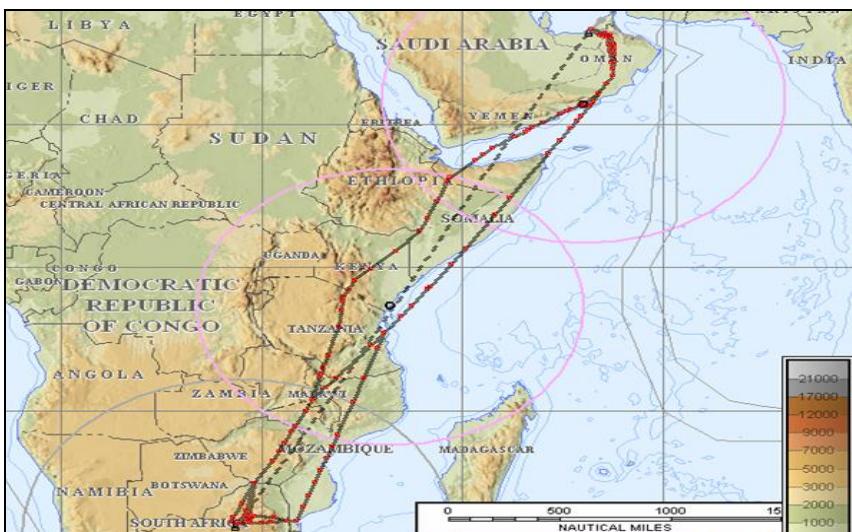
Note:- Plain lines are possible routings.
Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below.
Plain lines are possible routings.
Dotted line is great circle routing.

ROUTINGS-ETOPS 120 MIN VIEW



Note:- 120 min circles based on OOSA, HKMO and FAJS.

Plain lines are possible routings.

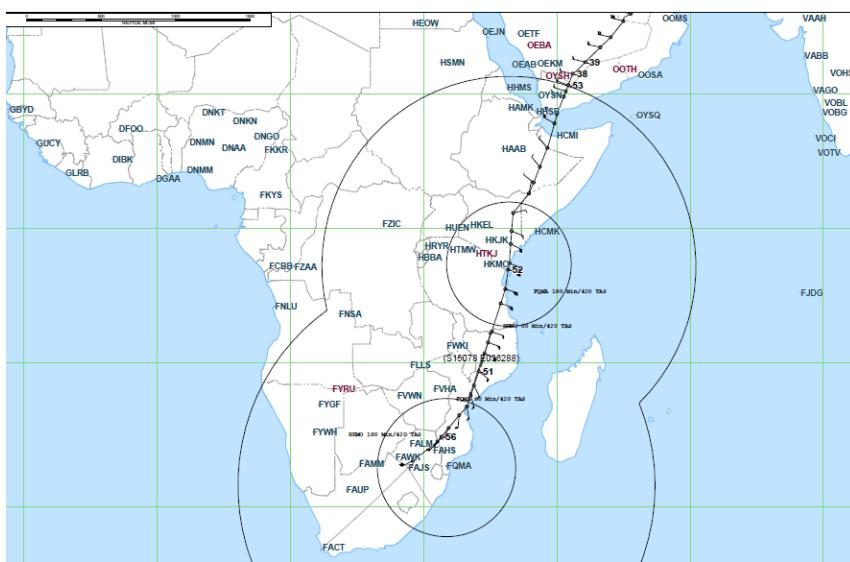
Dotted line is great circle route.

ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - ✈ MUSCAT (OOMS)
 - ✈ SALALAH (OOSA)
 - ✈ ADEN (OYAA)
 - ✈ DJIBOUTI (HDAM)
 - ✈ ADDIS ABEBA (HAAB)
 - ✈ NAIROBI (HKJK)
 - ✈ MOMBASA (HKMO)
 - ✈ DAR-ES-SALAAM (HTDA)
 - ✈ LILONGWE (FWKI)
 - ✈ HARARE (FVHA)

- Highest enroute Grid MORA
 - ♦ 21.7 near KILIMANJARO VOR (TANZANIA).

**ROUTINGS-ETOPS 180 MIN VIEW
AUH-JNB**



Note:- 180 min circles based on FQMA and HKMO.

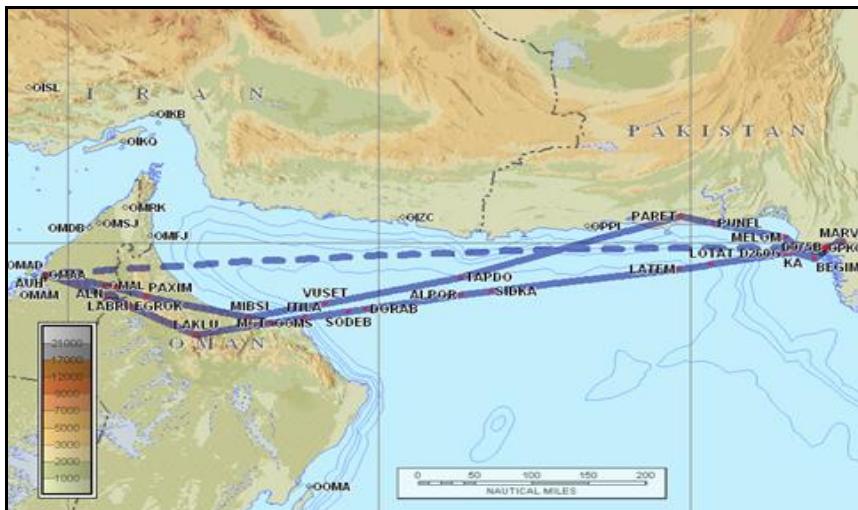
ROUTINGS-ETOPS 180 MIN VIEW
JNB-AUH



Note:- 180 min circles based on HKMO and OOSA.

KARACHI

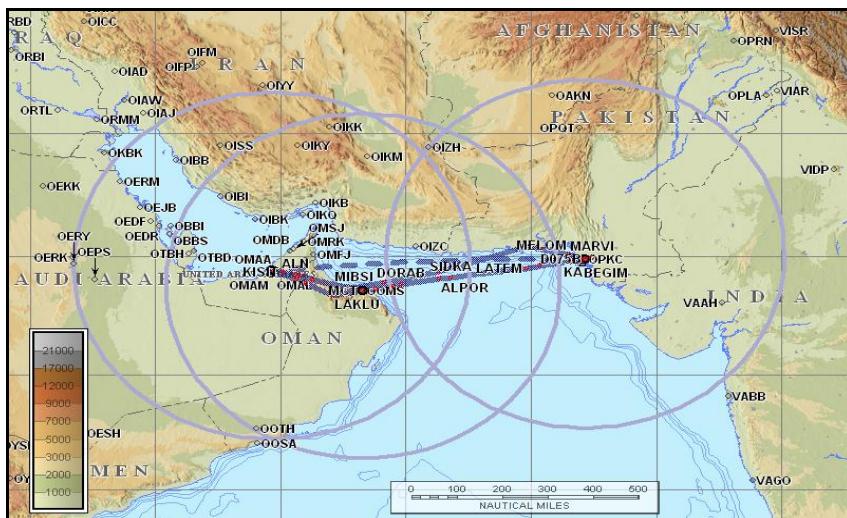
ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.

Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below (some).

Plain lines are possible routings.

Dotted line is great circle route.

ENROUTE INFORMATION

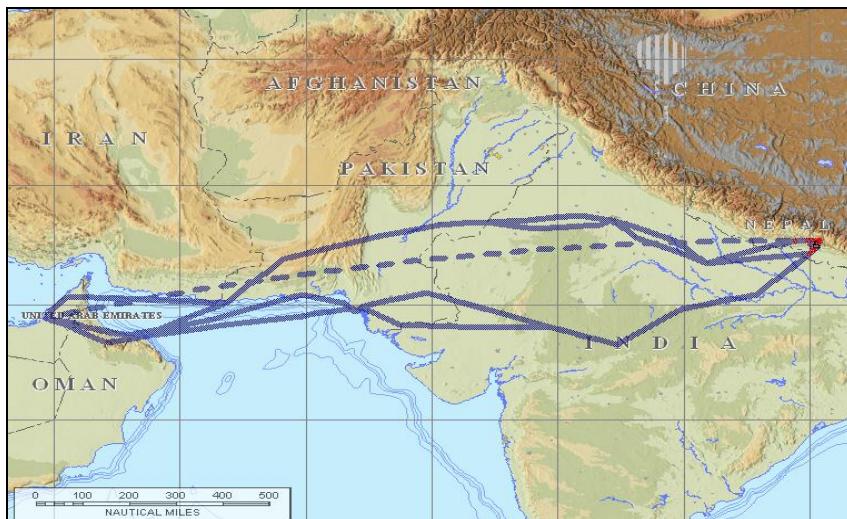
See *Emergency Escape Routes – PAKISTAN Destinations.*

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - ✈ AI AIN (OMAL)
 - ✈ MUSCAT (OOMS)

- Highest enroute Grid MORA
 - ◆ 12.4 near MUSCAT.

KATHMANDU

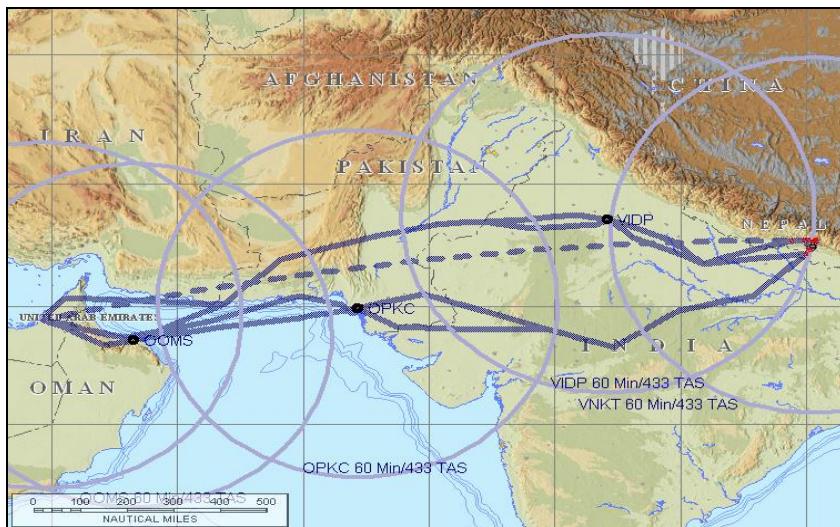
ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.

Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below.

Plain lines are possible routings.

Dotted line is great circle route.



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ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - ✈ MUSCAT (OOMS)
 - ✈ KARACHI (OPKC)
 - ✈ LAHORE (OPLA)
 - ✈ DELHI (VIDP)
 - ✈ AHMEDABAD (VAAH)
- Highest enroute GRID MORA
 - ◆ MOST CRITICAL MORA 17200 at RATAN

KHARTOUM

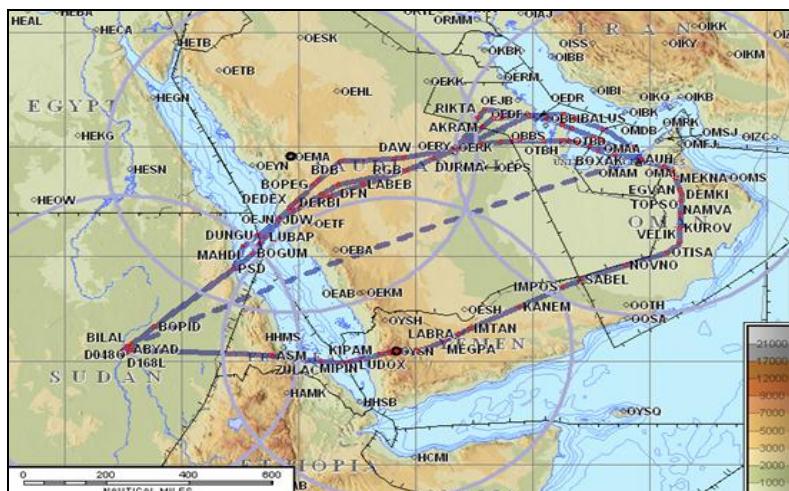
ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.

Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below(some).

Plain lines are possible routings.

Dotted line is great circle route.

ENROUTE INFORMATION

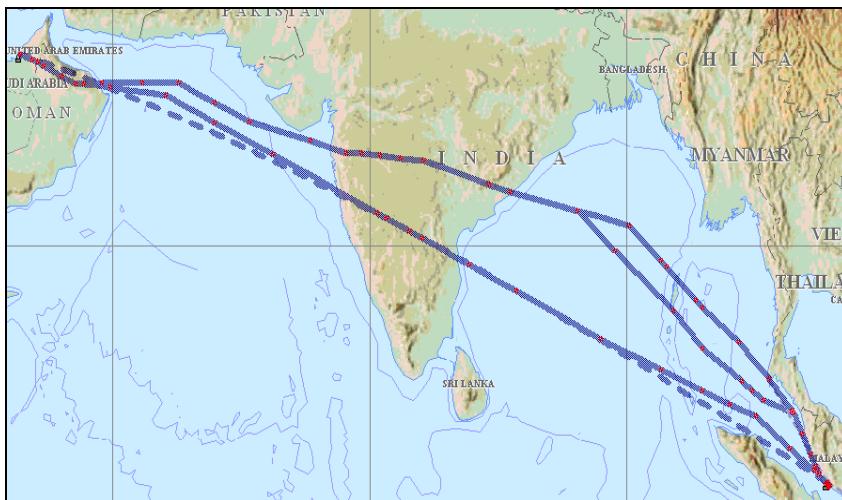
- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)

➤ MUSCAT (OOMS)
➤ SALALAH (OOSA)
➤ ADEN (OYAA)
➤ SANAA (OYSN)
➤ ADDIS ABEBA (HAAB)
➤ BAHRAIN (OBBI)
➤ DAMMAM (OEDF)
➤ RIYADH (OERK)
➤ JEDDAH (OEJN)
➤ PORT SUDAN (HSPN)

- Highest enroute Grid MORA's
- ◆ 12.4 near Muscat, 13.7 near Sanaa.

KUALA LUMPUR

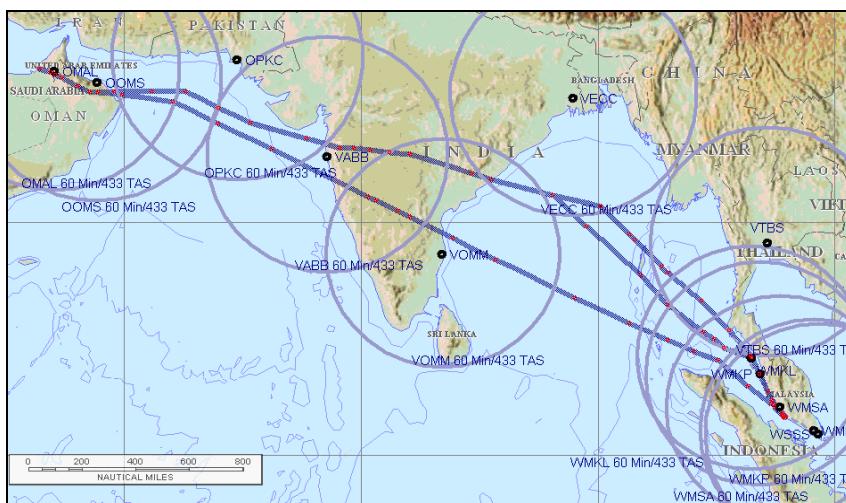
ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.

Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below.

Plain lines are possible routings.

Dotted line is great circle route.

ENROUTE INFORMATION

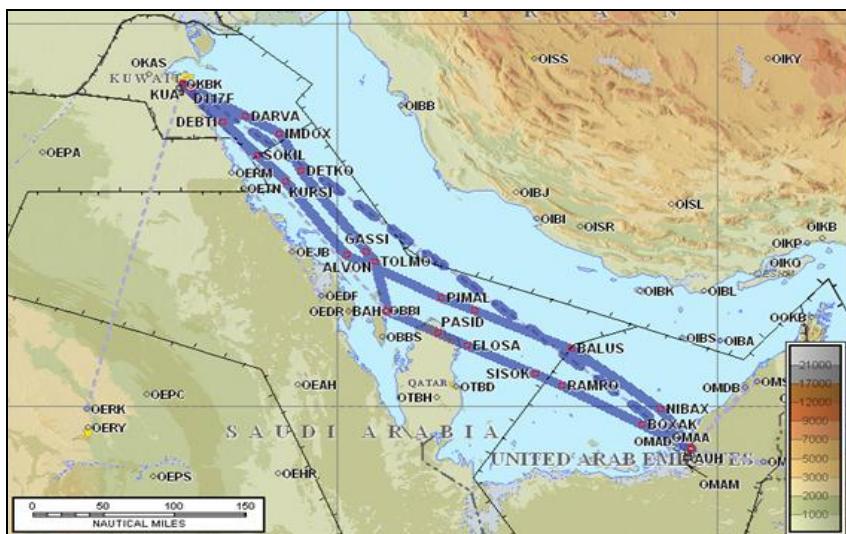
- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)

➤ OMAL	AAN	Al Ain Intl
➤ OOMS	MCT	Muscat
➤ OPKC	KHI	Karachi
➤ VABB	BOM	Mumbai
➤ VOMM	MAA	Chennai
➤ VECC	CCU	Kolkata
➤ WMKL	LGK	Langkawi
➤ WMKJ	JHB	Johor Bahru
➤ WMKP	PEN	Penang
➤ WMSA	SZB	Sultan Abdul Aziz Shah-Subang
➤ WSSS	SIN	Singapore
➤ VTBS	BKK	Bangkok

- Highest enroute Grid MORA
◆ MOST CRITICAL MORA 12400 FEET AT LAKLU.

KUWAIT

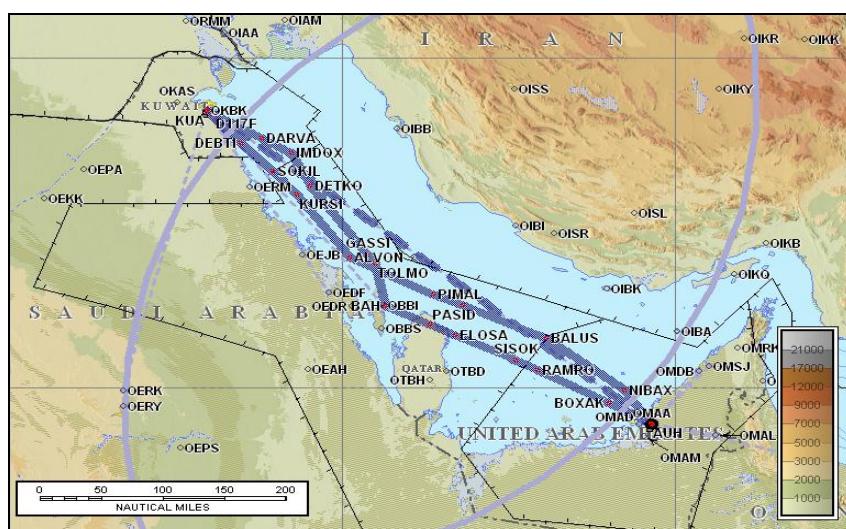
ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain line is possible routing.

Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on OMAD and OKBK

Plain lines are possible routings. Dotted line is great circle route.



ROUTE INFORMATION MANUAL ROUTE ANALYSIS

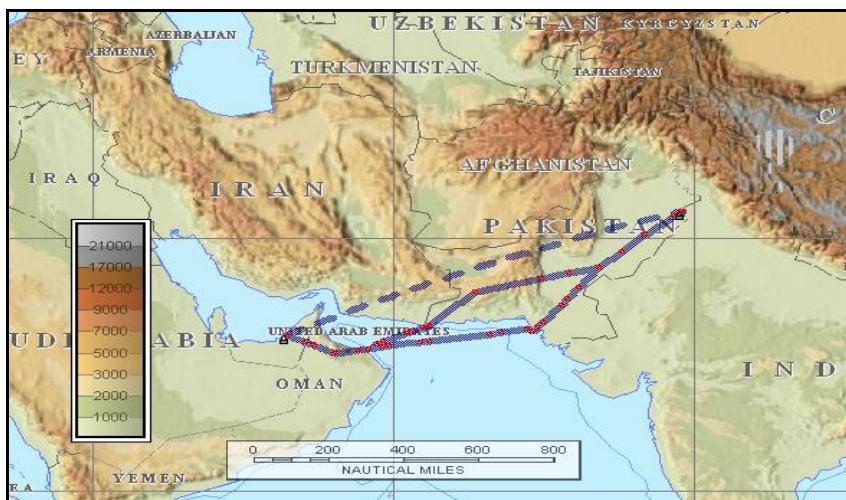
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ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - ✈ DOHA (OTBD)
 - ✈ BAHRAIN (OBBI)
 - ✈ DAMMAN (OEDF)
- Highest enroute Grid MORA
 - ◆ 2.7 near KUWAIT (OKBK)

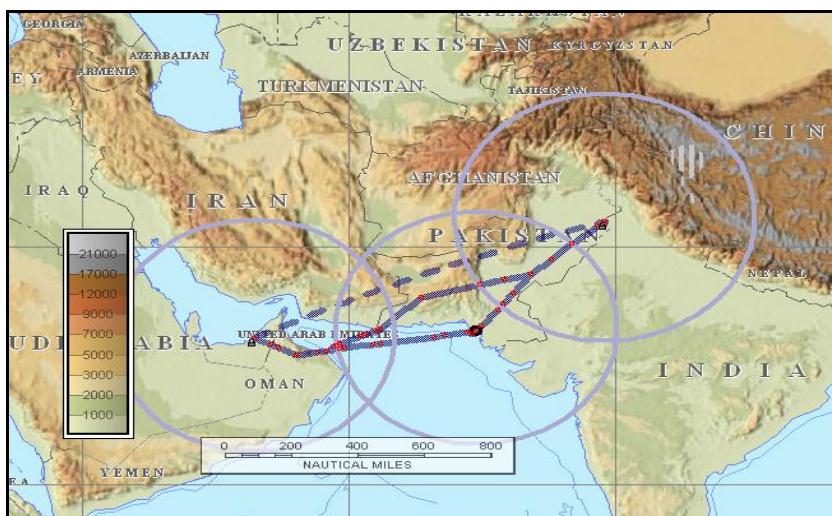
LAHORE

ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.
Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below (some).
Plain lines are possible routings.
Dotted line is great circle route.



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ENROUTE INFORMATION

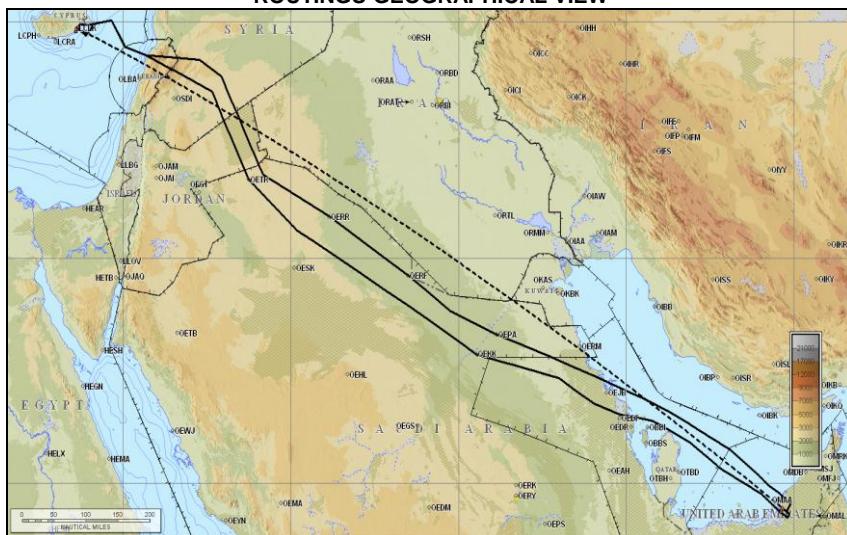
See Emergency Escape Routes – PAKISTAN Destinations.

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - ✈ AI AIN (OMAL)
 - ✈ MUSCAT (OOMS)
 - ✈ KARACHI (OPKC)

- Highest enroute Grid MORA
 - ◆ 12.4 near MUSCAT, 14.3 near QUETTA VOR.

LARNACA

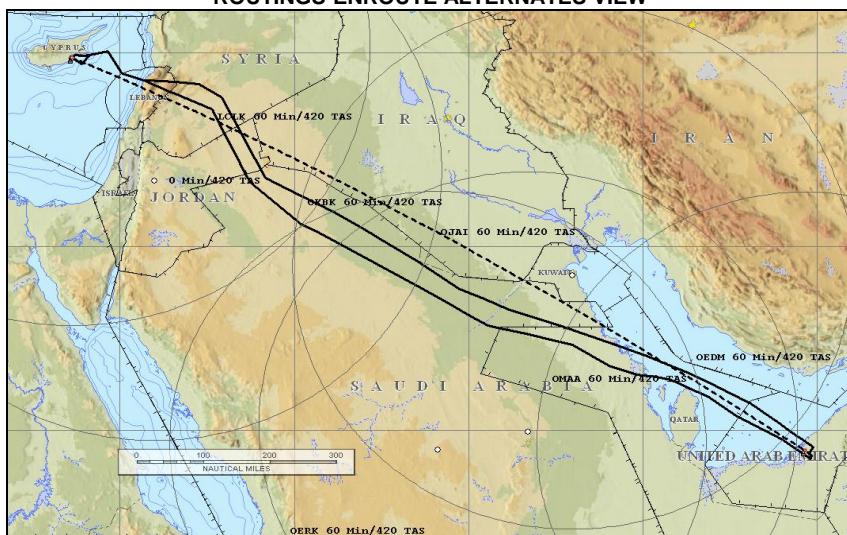
ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.

Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below.

Plain lines are possible routings.

Dotted line is great circle route.

ENROUTE INFORMATION

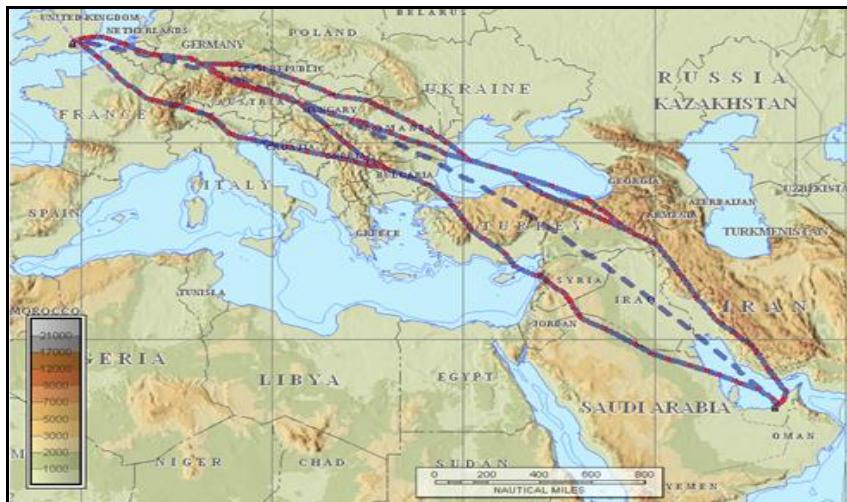
➤ Possible enroute alternates:

- DOHA (OTBD)
- KUWAIT (OKBK)
- RIYADH (OERK)
- DAMMAM (OEDM)
- BEIRUT (OLBA)
- DAMASCUS (OSDI)
- AMMAN (OJAI)

➤ Highest enroute GRID MORA

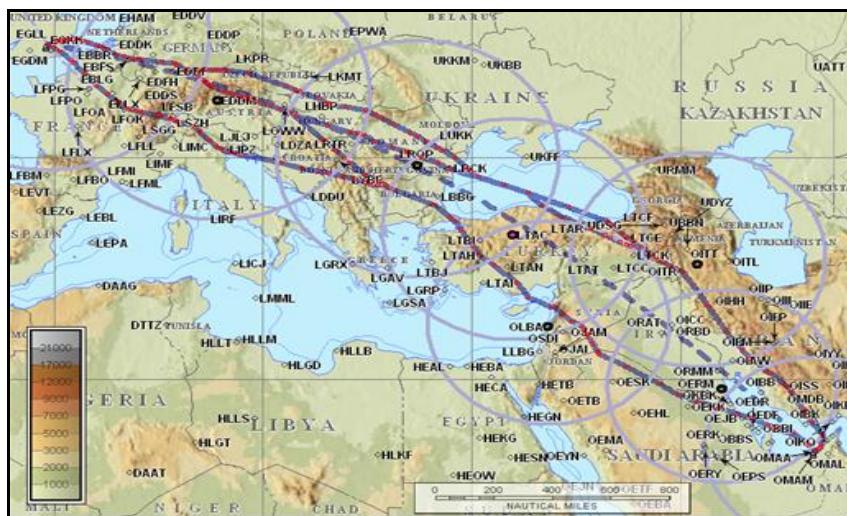
- MOST CRITICAL MORA 12500 FEET AT LATEB

LONDON GATWICK & HEATHROW
ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.
Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below.
Plain lines are possible routings.
Dotted line is great circle route.

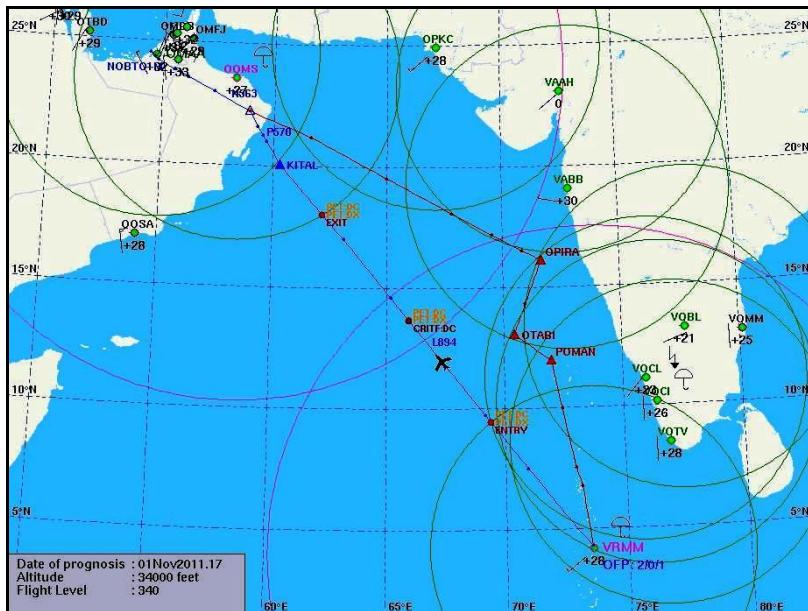
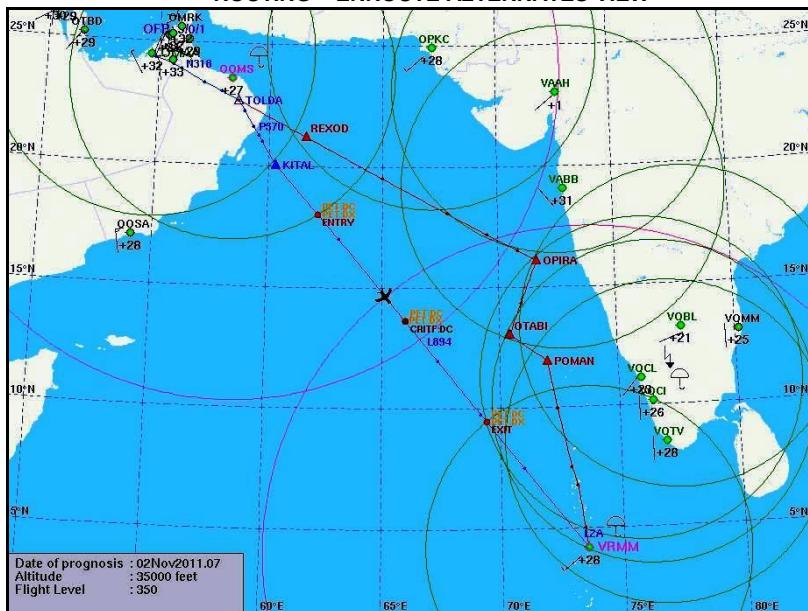
ENROUTE INFORMATION

See Emergency Escape Routes – Europe Destinations

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - Southern route (via Saudi Arabia)
 - ➔ BAHRAIN (OBBI)
 - ➔ RIYADH (OERK)
 - ➔ AMMAN (OJAI)
 - ➔ DAMASCUS (OSDI)
 - ➔ BEIRUT (OLBA)
 - ➔ LARNACA (LCLK)
 - ➔ ANKARA (LTAC)
 - ➔ ANTALYA (LTAI)
 - ➔ ISTANBUL (LTBA)
 - ➔ ATHENS (LGAV)
 - ➔ ROME (LIRF)
 - ➔ BUCHAREST (LROP)
 - ➔ SOFIA (LBSF)
 - ➔ BUDAPEST (LHBP)
 - ➔ VIENNA (LOWW)
 - ➔ MUNICH (EDDM)
 - ➔ FRANKFURT (EDDF)
 - Highest enroute Grid MORA
 - ◆ 14.8 near MUNICH
 - Northern route (via Iran)
 - ➔ DUBAI (OMDB)
 - ➔ SHIRAZ (OISS)
 - ➔ ESFAHAN (OIFM)
 - ➔ TEHRAN (OIII)
 - ➔ TABRIZ (OITT)
 - ➔ ERZURUM (LTCE)
 - ➔ SAMSUN (LTFH)
 - ➔ ANKARA (LTAC)
 - ➔ ANTALYA (LTAI)
 - ➔ ISTANBUL (LTBA)
 - ➔ BUCHAREST (LROP)
 - ➔ SOFIA (LBSF)
 - ➔ BUDAPEST (LHBP)
 - ➔ VIENNA (LOWW)
 - ➔ MUNICH (EDDM)
 - ➔ FRANKFURT (EDDF)
 - ➔ BRUSSELS (EBBR)
 - Highest enroute Grid MORA
 - ◆ 16.2 near ALTAX (ESFAHAN).

MALE

ROUTING – ENROUTE ALTERNATES VIEW



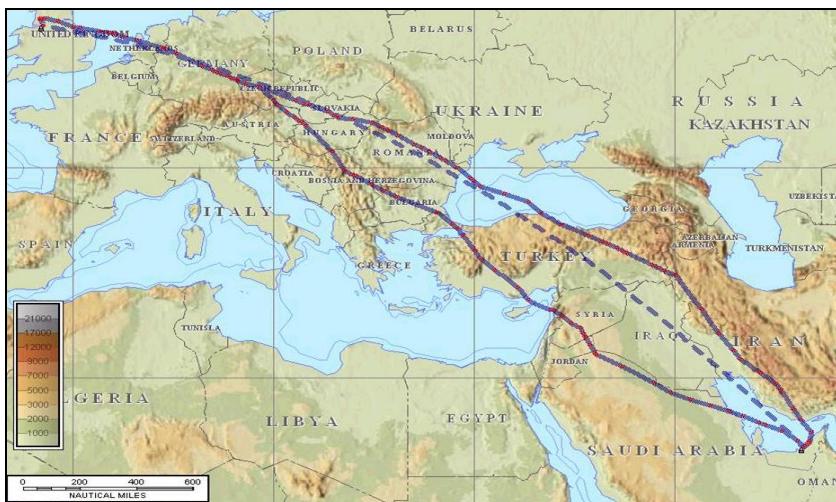
Note: Green circles – 60 minutes
Pink circles – 120 minutes

ENROUTE INFORMATION

- Possible enroute alternates:
 - MUSCAT (OOMS)
 - KARACHI (OPKC)
 - AHMEDABAD (VAAH)
 - MUMBAI (VABB)
 - BANGALORE (VOBL)
 - CALICUT (VOCL)
 - COCHIN (VOCI)
 - THIRUVANANTHAPURAM (VOTV)
- Highest enroute MORA
 - ◆ AUH – MLE: Most critical MORA 11800ft at GEVED
 - ◆ MLE – AUH: Most critical MORA 11800ft at MEKNA

MANCHESTER

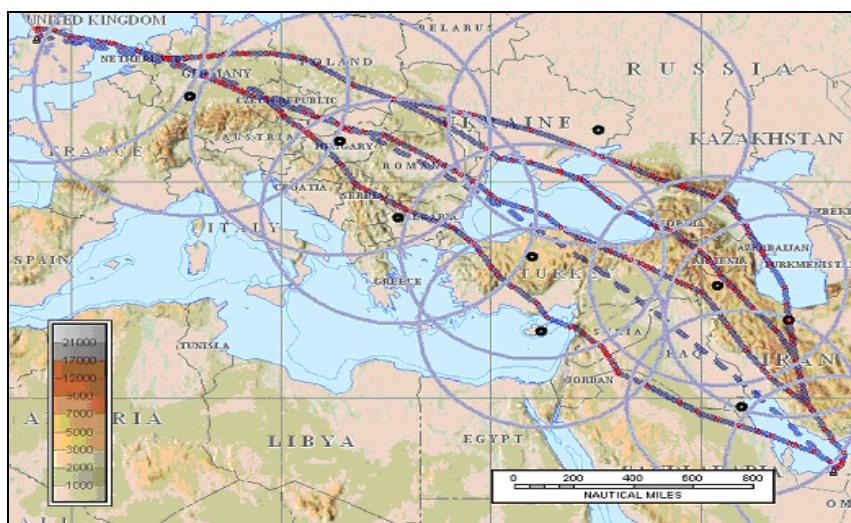
ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.

Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below (some).

Plain lines are possible routings.

Dotted line is great circle route.

ENROUTE INFORMATION

See *Emergency Escape Routes – Europe Destinations*

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)

- Southern route (via Saudi Arabia)
 - BAHRAIN (OBBI)
 - RIYADH (OERK)
 - AMMAN (OJAI)
 - DAMASCUS (OSDI)
 - BEIRUT (OLBA)
 - LARNACA (LCLK)
 - ANKARA (LTAC)
 - ANTALYA (LTAI)
 - ISTANBUL (LTBA)
 - BUCHAREST (LROP)
 - SOFIA (LBSF)
 - BUDAPEST (LHBP)
 - VIENNA (LOWW)
 - MUNICH (EDDM)
 - FRANKFURT (EDDF)
 - BRUSSELS (EBBR)

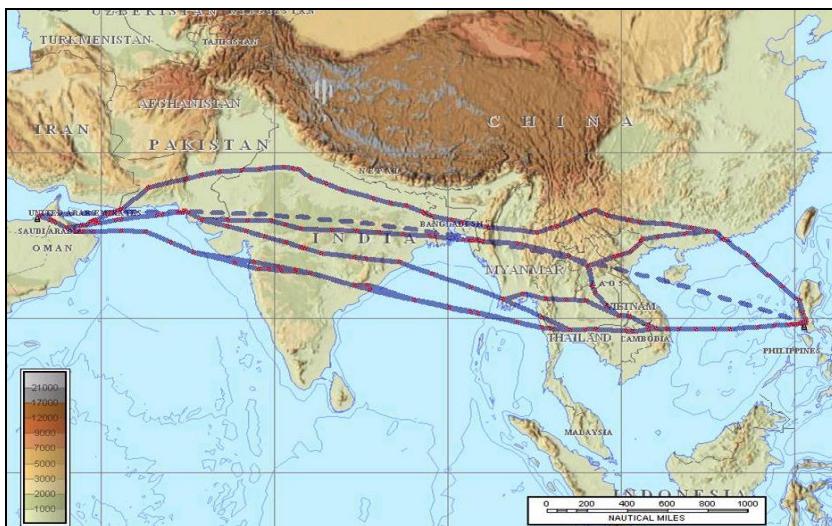
- Highest enroute Grid MORA
 - ◆ 14.8 near MUNICH.

- Northern route (via Iran)
 - DUBAI (OMDB)
 - SHIRAZ (OISS)
 - ESFAHAN (OIFM)
 - TEHRAN (OIII)
 - TABRIZ (OITT)
 - ERZURUM (LTCE)
 - SAMSUN (LTFH)
 - ANKARA (LTAC)
 - ANTALYA (LTAI)
 - ISTANBUL (LTBA)
 - BUCHAREST (LROP)
 - SOFIA (LBSF)
 - BUDAPEST (LHBP)
 - VIENNA (LOWW)
 - MUNICH (EDDM)
 - FRANKFURT (EDDF)
 - BRUSSELS (EBBR)

- Highest enroute Grid MORA
 - ◆ 16.2 near ALTAX (ESFAHAN).

MANILA

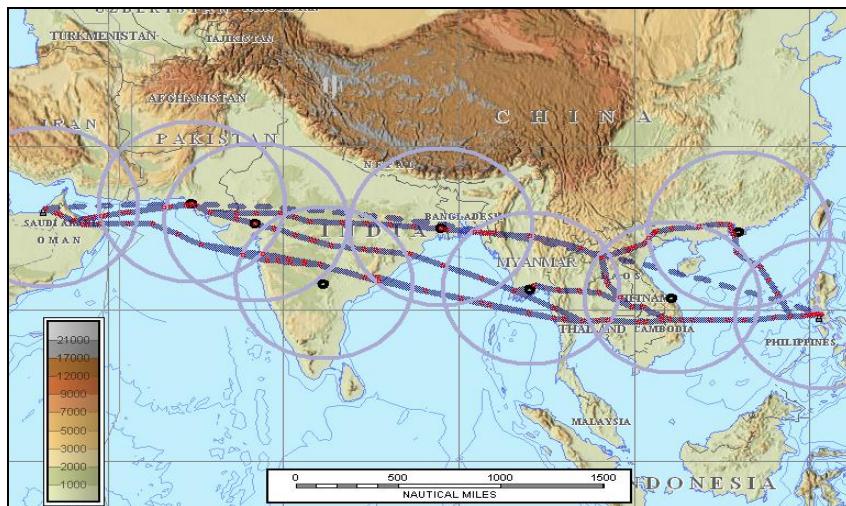
ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.

Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below.

Plain lines are possible routings.

Dotted line is great circle route.

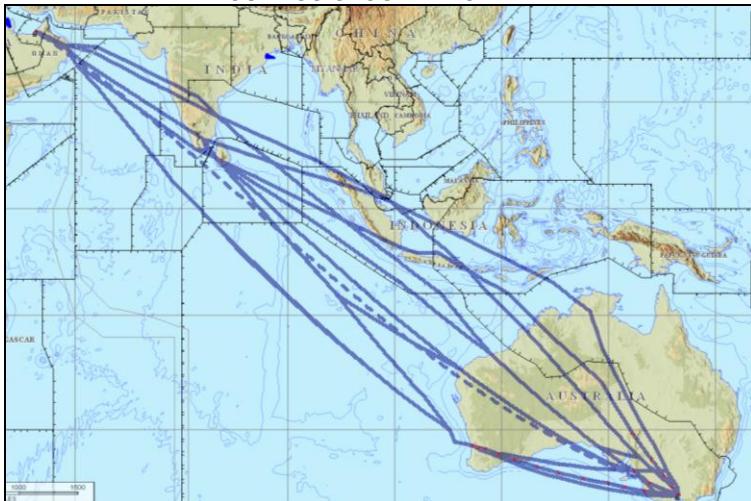
ENROUTE INFORMATION

See Emergency Escape Routes – Southeast Asia Destinations.

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - Northern route:
 - ✈ MUSCAT (OOMS)
 - ✈ KARACHI (OPKC)
 - ✈ DELHI (VIDP)
 - ✈ KOLKATA (VECC)
 - ✈ YANGOON (VYYY)
 - ✈ HANOI (VVNB)
 - ✈ HONG KONG (VHHH)
 - Highest enroute Grid MORA's
 - ◆ 12.4 near MUSCAT, 17.2 near PPT VOR (between DELHI and DHAKA).
- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - Southern route:
 - ✈ MUSCAT (OOMS)
 - ✈ KARACHI (OPKC)
 - ✈ AHMEDABAD (VAAH)
 - ✈ MUMBAI (VABB)
 - ✈ KOLKATA (VECC)
 - ✈ YANGOON (VYYY)
 - ✈ BANGKOK (VTBD)
 - ✈ CHIANG MAI (VTCC)
 - ✈ PHNOM PENH (VDPP)
 - ✈ DANANG (VVDN)
 - Highest enroute Grid MORA's
 - ◆ 12.4 near MUSCAT, 10.9 near DANANG.

MELBOURNE

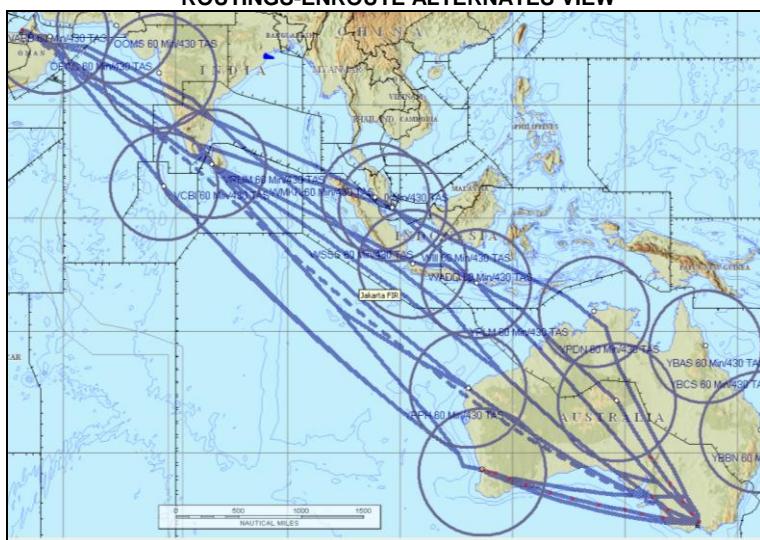
ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.

Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below.

Plain lines are possible routings.

Dotted line is great circle route.

ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)

- MUSCAT (OOMS)
- MUMBAI (VABB)
- KARACHI (VPKC)
- COLOMBO (VCBI)
- MALE (VRMM)
- KUALA LUMPUR (WMKK)
- SINGAPORE (WSSS)
- JAKARTA (WIII)
- BALI (WADD)
- LEARMONT (YPLM)
- DARWIN (YPDN)
- PERTH (YPPH)
- CANBERRA (YSCB)

- **Most Critical Grid MORA**

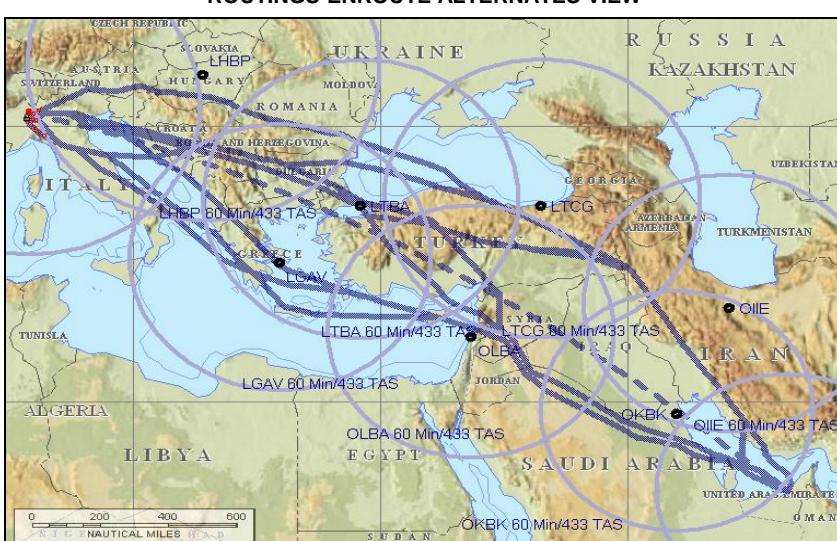
- ◆ 14800 ft at WALET

MILAN

ROUTINGS-GEOGRAPHICAL VIEW



ROUTINGS-ENROUTE ALTERNATES VIEW



ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - OBBI
 - OEJN
 - OKBK
 - OIIE
 - OLBA
 - OSDI
 - LTCG
 - LTAC
 - LTBA
 - LGAV
 - LHBP
 - LIRA
 - LIRF
- Highest enroute GRID MORA
 - ◆ MOST CRITICAL MORA 17000 AT MESVI

MINSK

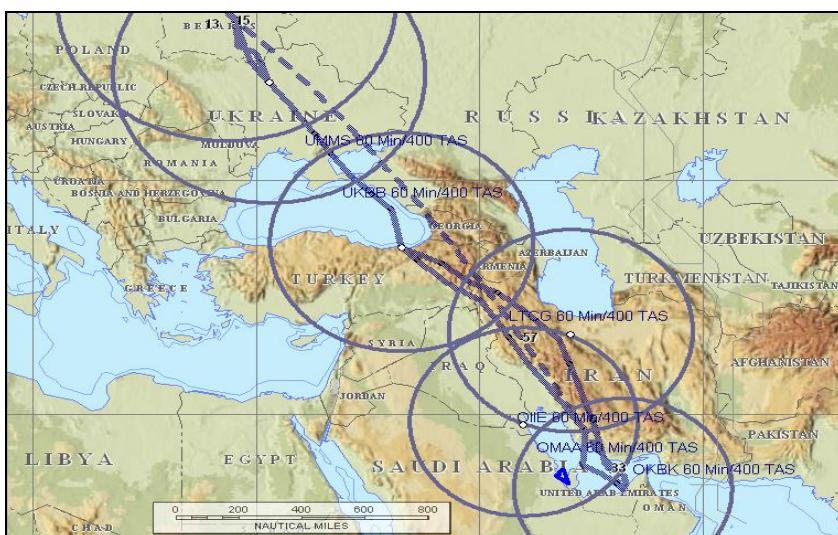
ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.

Doted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below.

Plain lines are possible routings. Doted line is great circle route.



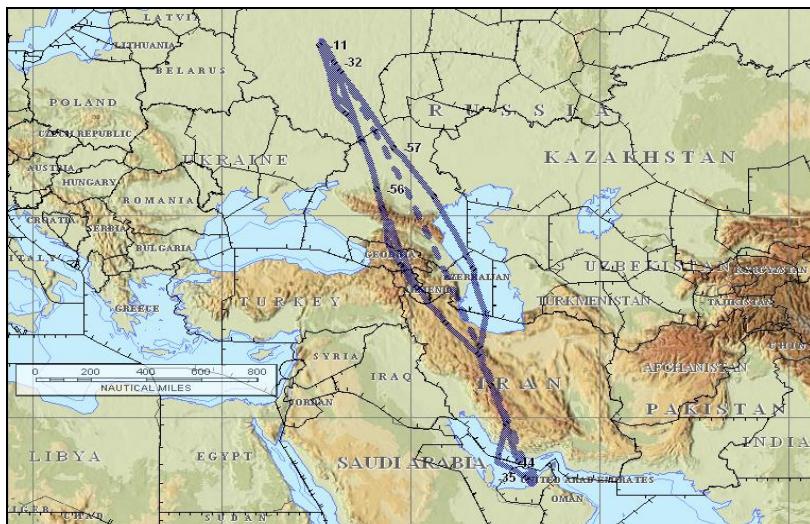
ROUTE INFORMATION MANUAL ROUTE ANALYSIS

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ENROUTE INFORMATION

- Possible enroute alternates:
 - ✈ BAHRAIN (OBBI)
 - ✈ KUWAIT INTL (OKBK)
 - ✈ TEHRAN - IMAM KHAMEINI (OIEE)
 - ✈ TRABZON - (LTCG)
 - ✈ KIEV BORYSPIL - (UKBB)
- Highest enroute GRID MORA
 - ◆ MOST CRITICAL MORA 19400 FEET AT DASIS

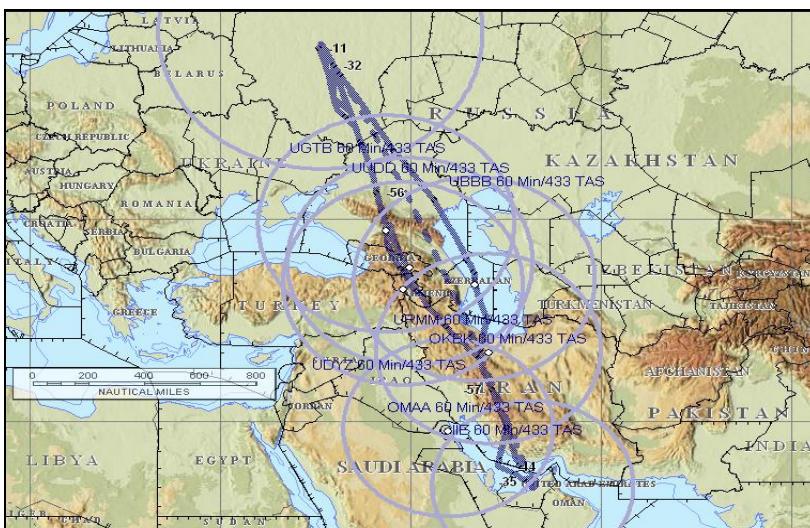
MOSCOW-DOMODEDOVO



Note:- Plain lines are possible routings.

Doted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below.

Plain lines are possible routings.

Doted line is great circle route.



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ENROUTE INFORMATION

- Possible enroute alternates:

- Bahrain – (OBBI)
- Kuwait – (OKBK)
- Tehran – IMAM KHAMENEI (OIIE)
- Baku – (UBBB)
- Yerevan – (UDYZ)
- Tblisi – (UGTB)
- Mineralnyye Vody – (URMM)

Highest enroute GRID MORA

- MOST CRITICAL MORA 19400 FEET AT ULANA

MUMBAI

ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.
Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below.
Plain lines are possible routings.
Dotted line is great circle route.



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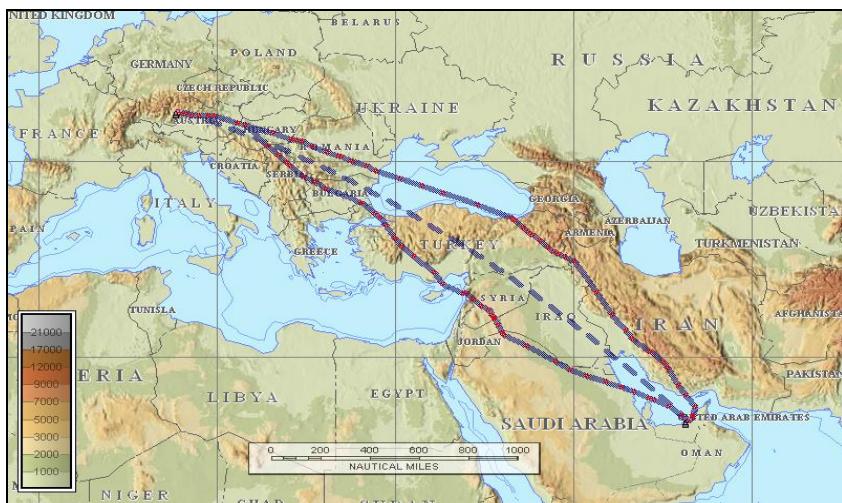
ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - AI AIN (OMAL)
 - MUSCAT (OOMS)
 - KARACHI (OPKC)
 - AHMEDABAD (VAAH)

- Highest enroute Grid MORA
 - ◆ 12.4 near MUSCAT.

MUNICH

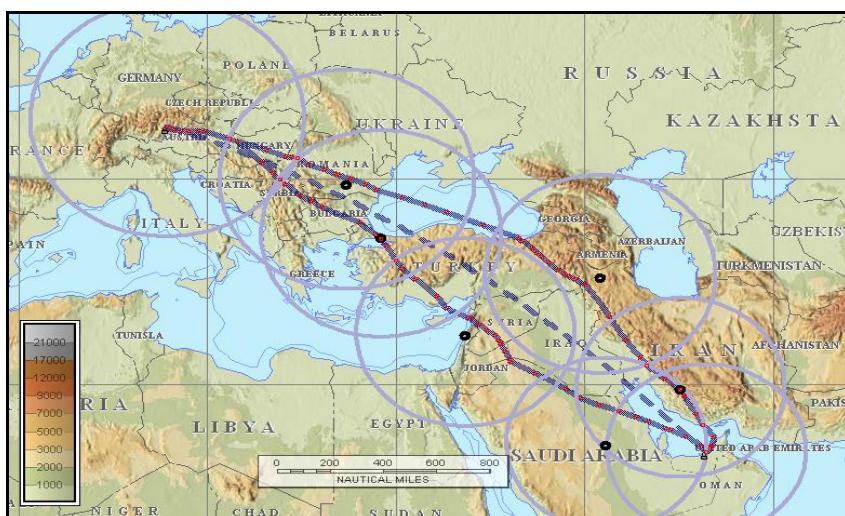
ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.

Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below (some).

Plain lines are possible routings.

Dotted line is great circle route.

ENROUTE INFORMATION

See Emergency Escape Routes – Europe Destinations

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)

- Southern route (via Saudi Arabia)
 - BAHRAIN (OBBI)
 - RIYADH (OERK)
 - AMMAN (OJAI)
 - DAMASCUS (OSDI)
 - BEIRUT (OLBA)
 - LARNACA (LCLK)
 - ANKARA (LTAC)
 - ANTALYA (LTAI)
 - ISTANBUL (LTBA)
 - ATHENS (LGAV)
 - ROME (LIRF)
 - BUCHAREST (LROP)
 - SOFIA (LBSF)
 - BUDAPEST (LHBP)
 - VIENNA (LOWW)

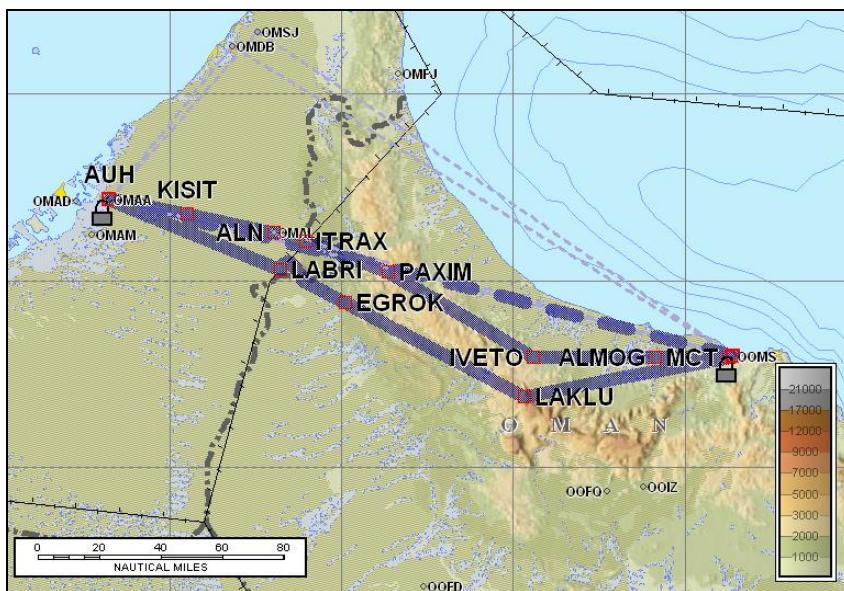
- Highest enroute Grid MORA
 - ◆ 14.8 near MUNICH.

- Northern route (via Iran)
 - DUBAI (OMDB)
 - SHIRAZ (OISS)
 - ESFAHAN (OIFM)
 - TEHRAN (OIII)
 - TABRIZ (OITT)
 - ERZURUM (LTCE)
 - SAMSUN (LTFH)
 - ANKARA (LTAC)
 - ANTALYA (LTAI)
 - ISTANBUL (LTBA)
 - BUCHAREST (LROP)
 - SOFIA (LBSF)
 - BUDAPEST (LHBP)
 - VIENNA (LOWW)

- Highest enroute Grid MORA
 - ◆ 16.2 near ALTAX (ESFAHAN).

MUSCAT

ROUTINGS-GEOGRAPHICAL VIEW



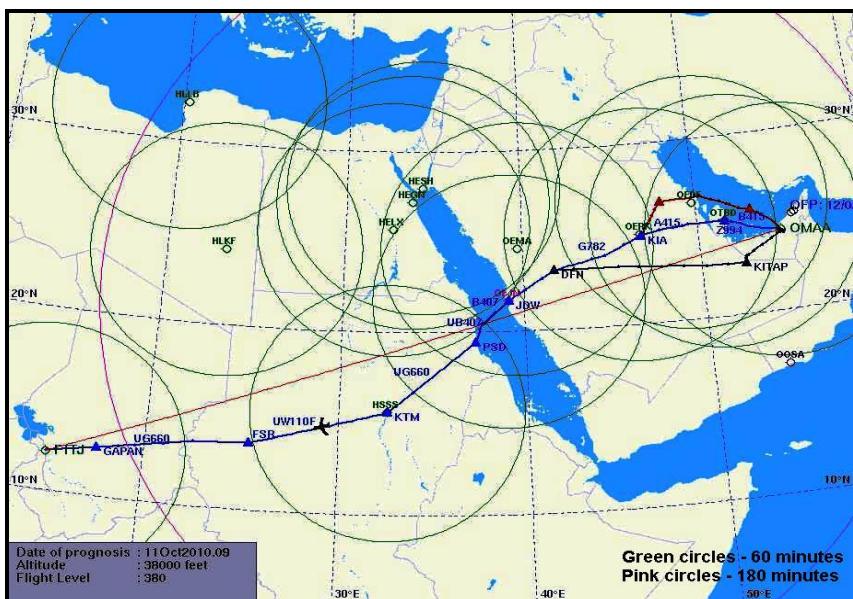
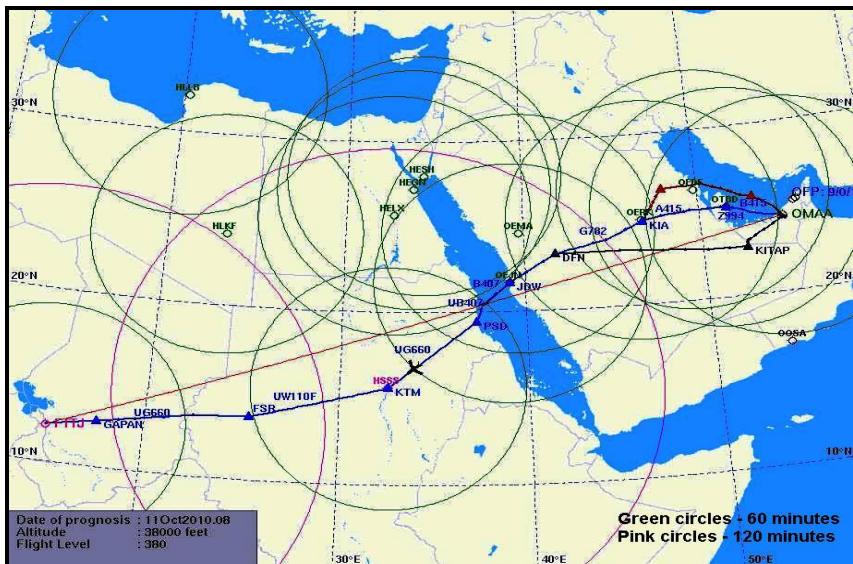
Note:- Plain lines are possible routings.
Dotted line is great circle routing.

ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - ✈ AL AIN (OMAL).
- Highest enroute Grid MORA
 - ♦ 12.4 near Muscat.

N'DJAMENA

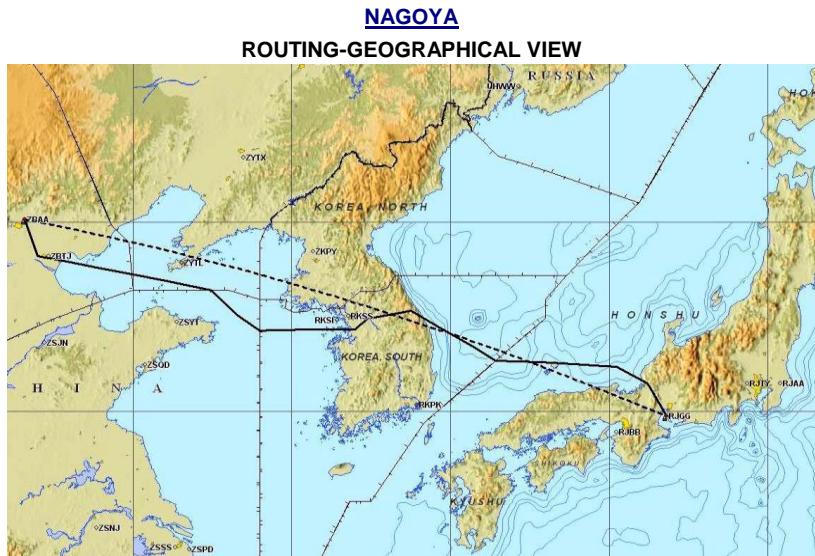
AUH TO NDJ ROUTING – ENROUTE ALTERNATES – ETOPS 120 & 180 MIN VIEW



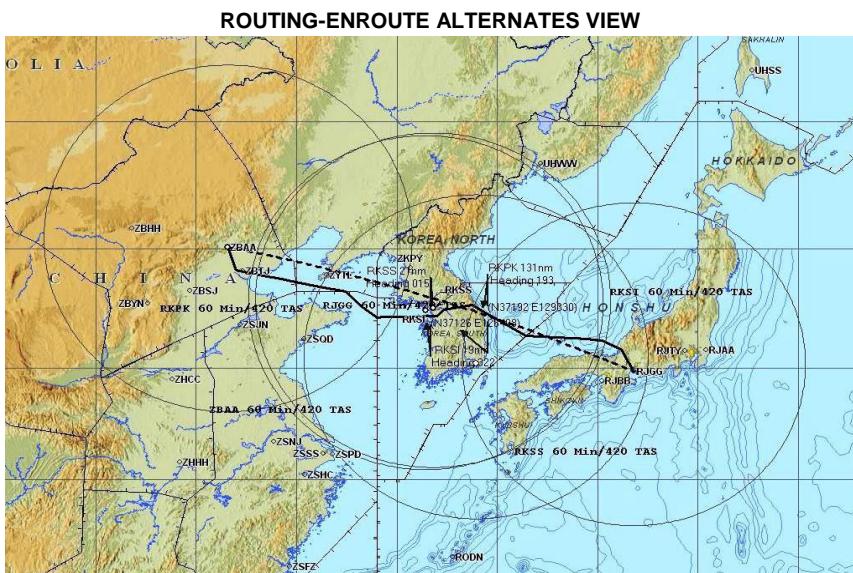
Note: Plain lines are possible routings. Red line is great circle route.

ENROUTE INFORMATION

- AUH to NDJ is an ETOPS sector. Possible enroute alternates:
 - DOHA (OTBD)
 - BAHRAIN (OBBI)
 - DAMMAM (OEDF)
 - RIYADH (OERK)
 - MADINAH (OEMA)
 - JEDDAH (OEJN)
 - SHARM EL SHEIKH (HESH)
 - HURGHADA (HEGN)
 - LUXOR (HELX)
 - KUFRA (HLKF)
 - KHARTOUM (HSSS)
- Highest enroute MORA
 - ♦ Most critical MORA 8700 feet at GNA



Note:- Plain lines is possible routing.
Dotted line is great circle routing.



Note:- 60 min circles based on possible enroute alternates listed below
Plain lines are possible routings.
Dotted line is great circle route.



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ENROUTE INFORMATION

- Possible enroute alternates:

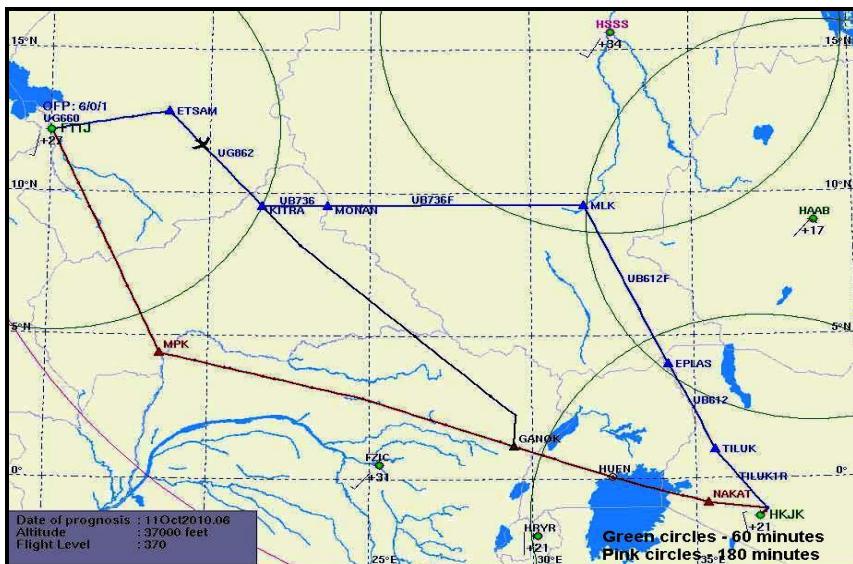
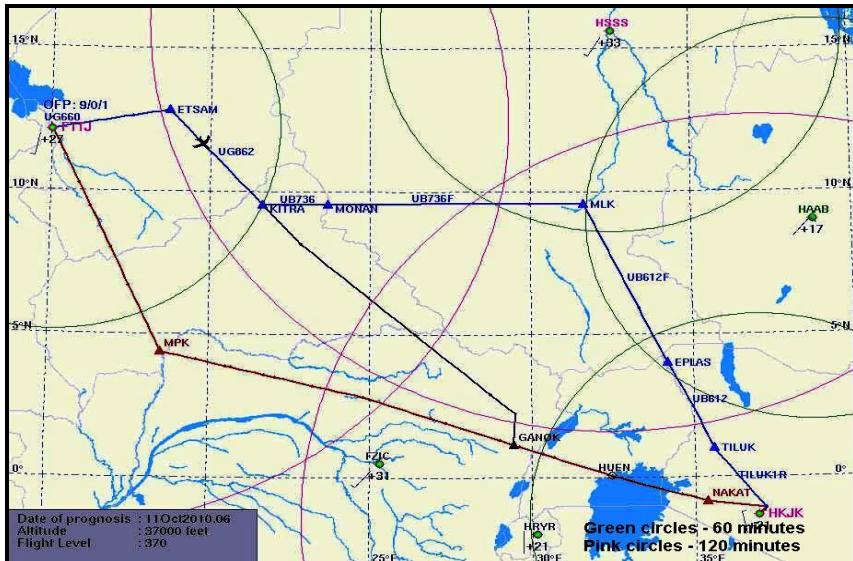
- SEOUL INCHEON INTL (RKSI)
- SEOUL GIMPO INTL (RKSS)
- BUSAN GIMHAE INTL (RKPX)

- Highest enroute Grid MORA

MOST CRITICAL MORA 8200 FEET AT ZBAA

NAIROBI

NDJ TO NBO ROUTING – ENROUTE ALTERNATES – ETOPS 120 & 180 MIN VIEW



Note: Plain lines are possible routings.

NDJ TO NBO ENROUTE INFORMATION

- NDJ to NBO is an ETOPS sector. Possible enroute alternates:

✈ KHARTOUM (HSSS)
✈ ADDIS ABEBA (HAAB)

- Highest enroute MORA

- ◆ Route 01 and 02: Most critical MORA 12200 feet at HKJK
◆ Route 03: Most critical MORA 15200 feet at HKJK

NBO TO AUH ROUTING – ENROUTE ALTERNATES VIEW



Note: 60 min circles, plain lines are possible routings, red line is great circle route

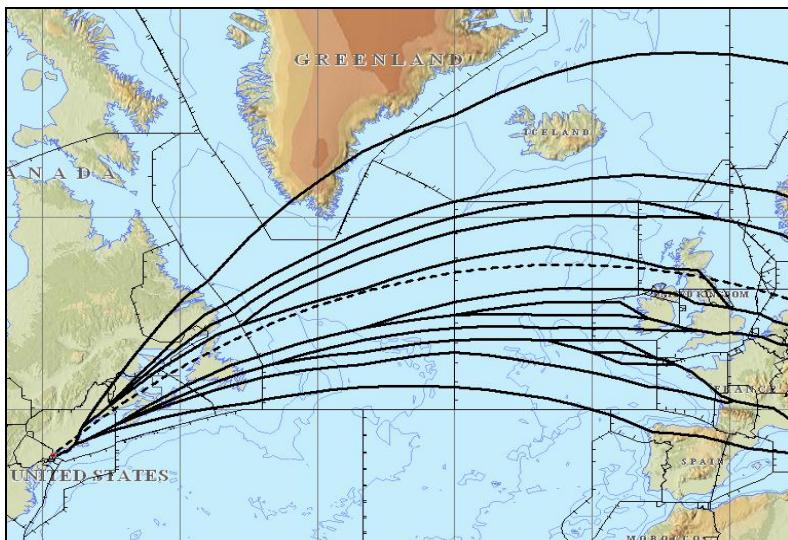
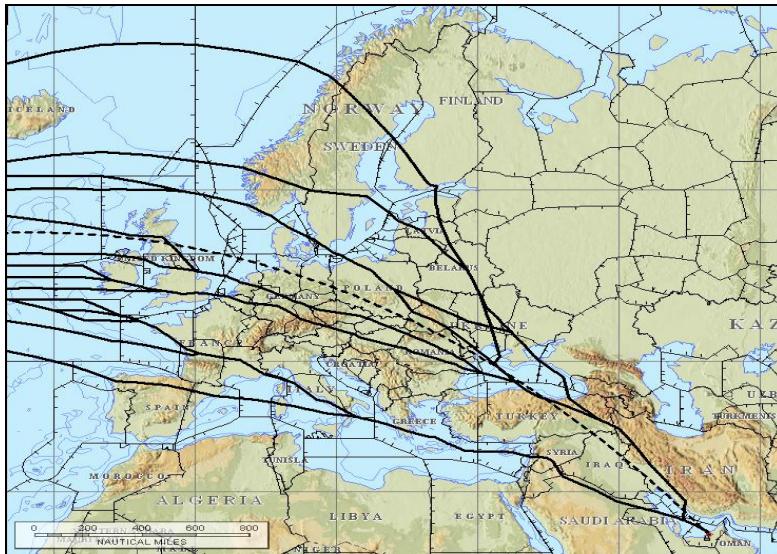
NBO TO AUH ENROUTE INFORMATION

- NBO to AUH is normally a non ETOPS sector. Possible enroute alternates:
 - ✈ ADDIS ABEBA (HAAB)
 - ✈ DJIBOUTI (HDAM)
 - ✈ ADEN (OYAA)
 - ✈ SALALAH (OOSA)
 - ✈ RIYADH (OERK)
 - ✈ DOHA (OTBD)
 - ✈ MUSCAT (OOMS)
- Highest enroute MORA
 - ◆ Route 01: Most critical MORA 10300 feet at PEBIX
 - ◆ Route 02: Most critical MORA 9100 feet at AVITU

NEW YORK

Note:- For the initial part of the routes please refer to London route analysis.

ROUTINGS OCEANIC CROSSING VIEW



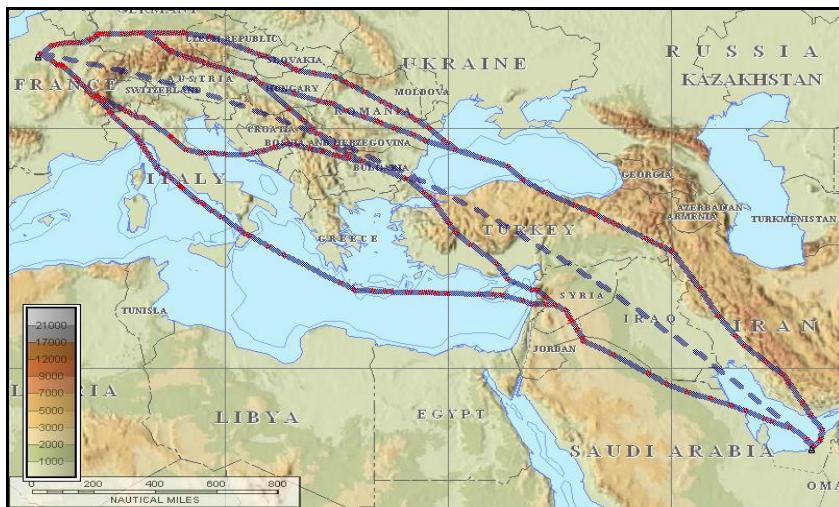
*Note:- These routings are for example only.
For actual tracks refer to NAT TRACK message.*

ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
- For the initial part of the flight refer to London route analysis.
- For the NAT crossing refer to ETOPS Alternates.

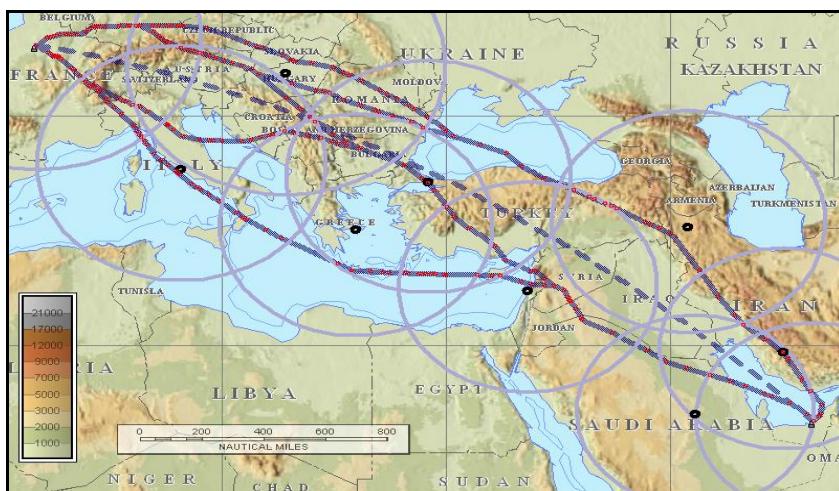
PARIS

ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.
Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below (some).
Plain lines are possible routings.
Dotted line is great circle route.

ENROUTE INFORMATION

See Emergency Escape Routes – Europe Destinations

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)

- Southern route (via Saudi Arabia)
 - BAHRAIN (OBBI)
 - RIYADH (OERK)
 - AMMAN (OJAI)
 - DAMASCUS (OSDI)
 - BEIRUT (OLBA)
 - LARNACA (LCLK)
 - ANKARA (LTAC)
 - ANTALYA (LTAI)
 - ISTANBUL (LTBA)
 - ATHENS (LGAV)
 - ROME (LIRF)
 - BUCHAREST (LROP)
 - SOFIA (LBSF)
 - BUDAPEST (LHBP)
 - VIENNA (LOWW)
 - MUNICH (EDDM)
 - FRANKFURT (EDDF)
 - BRUSSELS (EBBR)

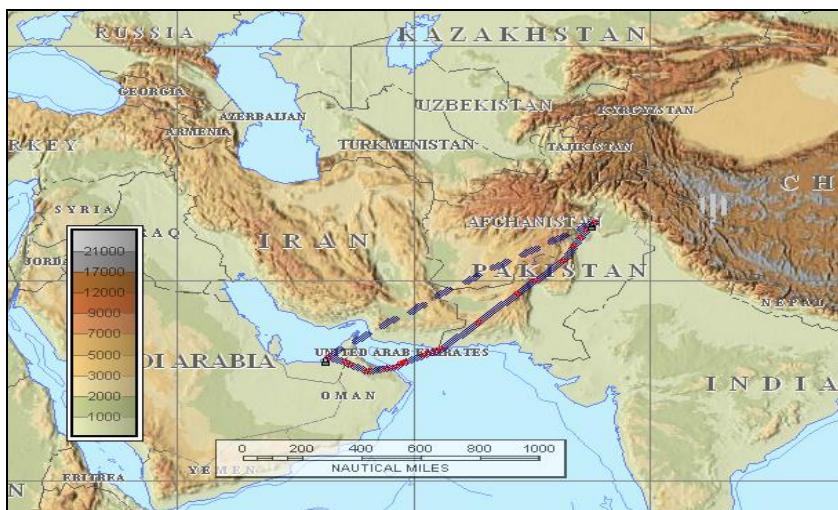
- Highest enroute Grid MORA
 - ◆ 14.8 near MUNICH.

- Northern route (via Iran)
 - DUBAI (OMDB)
 - SHIRAZ (OISS)
 - ESFAHAN (OIFM)
 - TEHRAN (OIII)
 - TABRIZ (OITT)
 - ERZURUM (LTCE)
 - SAMSUN (LTFH)
 - ANKARA (LTAC)
 - ANTALYA (LTAI)
 - ISTANBUL (LTBA)
 - BUCHAREST (LROP)
 - SOFIA (LBSF)
 - BUDAPEST (LHBP)
 - VIENNA (LOWW)
 - MUNICH (EDDM)
 - FRANKFURT (EDDF)
 - BRUSSELS (EBBR)

- Highest enroute Grid MORA
 - ◆ 16.2 near ALTAX (ESFAHAN).

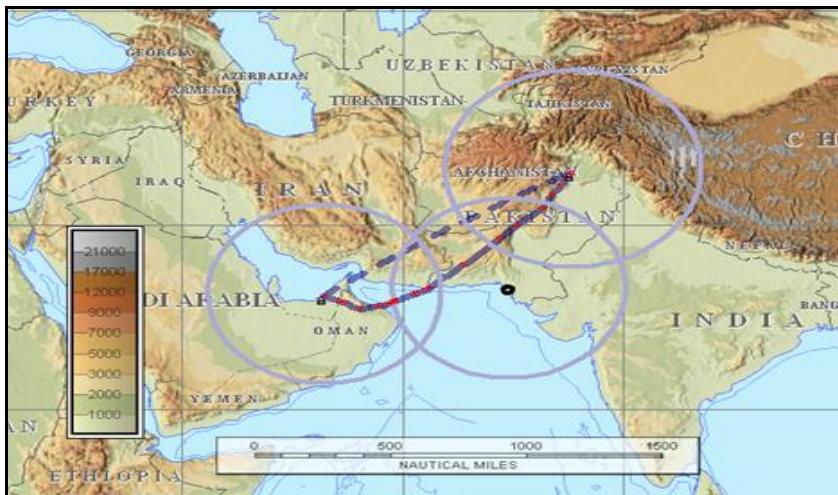
PESHAWAR

ROUTING-GEOGRAPHICAL VIEW



Note:- Plain lines is possible routing.
Dotted line is great circle routing.

ROUTING-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below.
Plain lines are possible routings.
Dotted line is great circle route.



ROUTE INFORMATION MANUAL ROUTE ANALYSIS

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ENROUTE INFORMATION

See *Emergency Escape Routes – PAKISTAN Destinations.*

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - ✈ AI AIN (OMAL)
 - ✈ MUSCAT (OOMS)
 - ✈ KARACHI (OPKC)
- Highest enroute Grid MORA's
 - ◆ 14.3 near QUETTA VOR.

RABAT

ROUTINGS- GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.
Dotted line is great circle routing.

ROUTINGS- ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below.
Plain lines are possible routings. Dotted line is great circle route.



ROUTE INFORMATION MANUAL ROUTE ANALYSIS

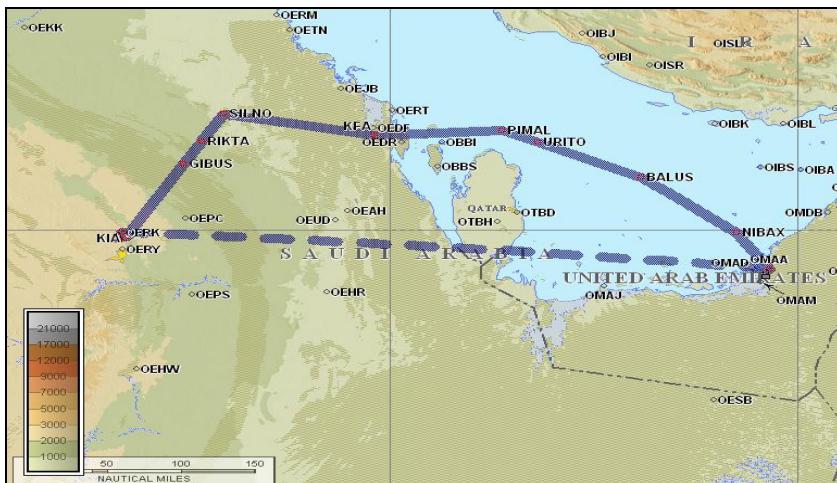
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ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - DOHA (OTBD)
 - BAHRAIN (OBBI)
 - DAMMAM (OEDF)
 - RIYADH (OERK)
 - JEDDAH (OEJN)
 - AMMAN (OJAI)
 - DAMASCUS (OSDI)
 - BEIRUT (OLBA)
 - CAIRO (HECA)
 - ATHENS (LGAV)
 - ROME (LIRF)
 - PALMA DE MALLORCA (LEPA)
 - BARCELONA (LEBL)
 - TRIPOLI (HLLT)
 - TUNIS (DTTA)
 - ALGIERS (DAAG)
- Highest enroute Grid MORA
 - ◆ 11.6 near BEIRUT, 11.6 near JEDDAH, 11.5 near CAIRO, 14.6 near FES.

RIYADH

ROUTING-GEOGRAPHICAL VIEW



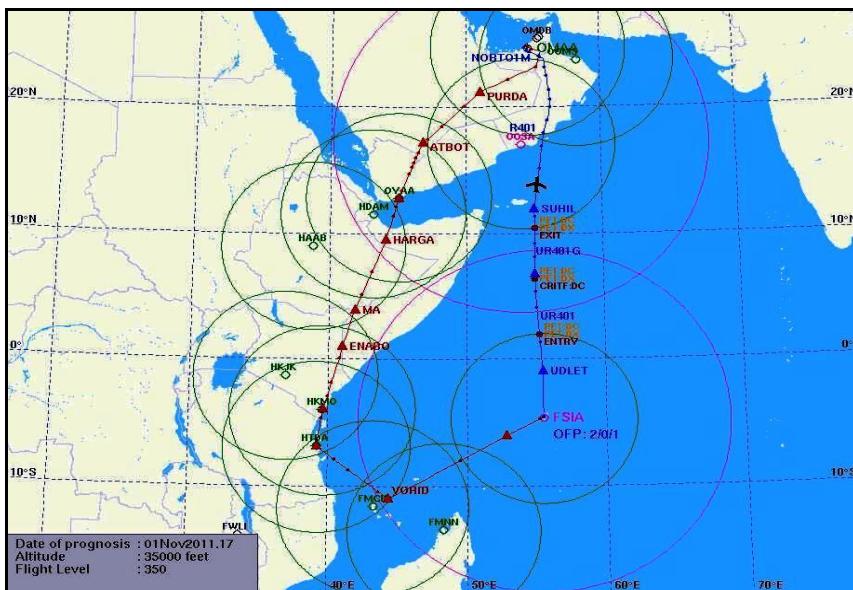
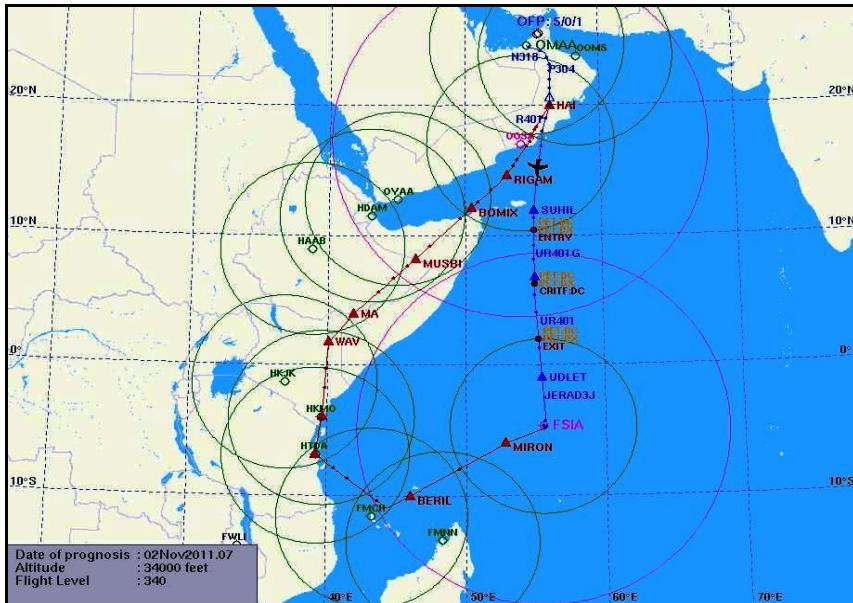
Note:- Plain lines are possible routings.
Dotted line is great circle routing.

ROUTING-ENROUTE ALTERNATES VIEW

Note:- 60 min circles based on possible enroute alternates listed above
Plain lines are possible routings.
Dotted line is great circle route.

SEYCHELLES

ROUTING – ENROUTE ALTERNATES VIEW



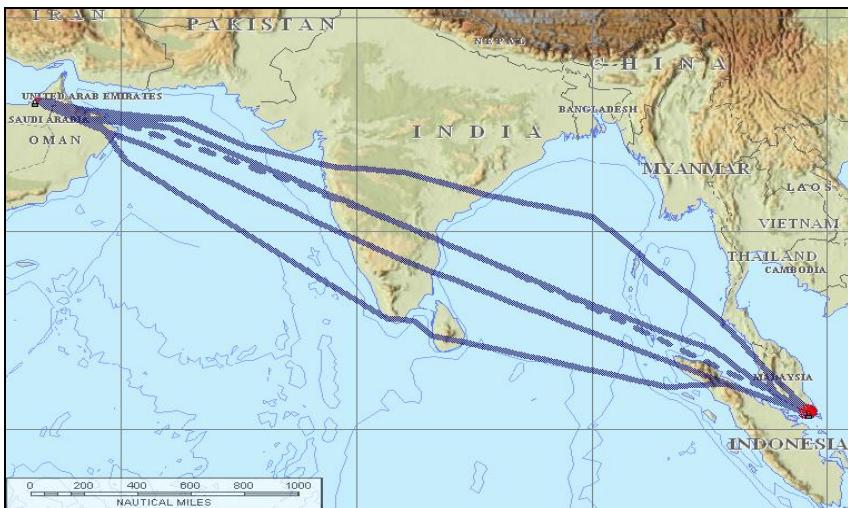
Note: Green circles – 60 minutes
Pink circles – 120 minutes

ENROUTE INFORMATION

- Possible enroute alternates:
 - MUSCAT (OOMS)
 - SALALAH (OOSA)
 - ADEN (OYAA)
 - DJIBOUTI (HDAM)
 - ADDIS ABEBA (HAAB)
 - NAIROBI (HKJK)
 - MOMBASA (HKMO)
 - DAR-ES-SALAAM (HTDA)
 - MORONI (FMCH)
 - NOSY-BE (FMNN)
- Highest enroute MORA
 - ◆ AUH – SEZ: Most critical MORA 6500ft at MEKNA (ETOPS route) or 8900ft at AXIKU (non ETOPS route)
 - ◆ SEZ – AUH: Most critical MORA 5000ft at FS368 (ETOPS route) or 10300ft at PEBIX (non ETOPS route)

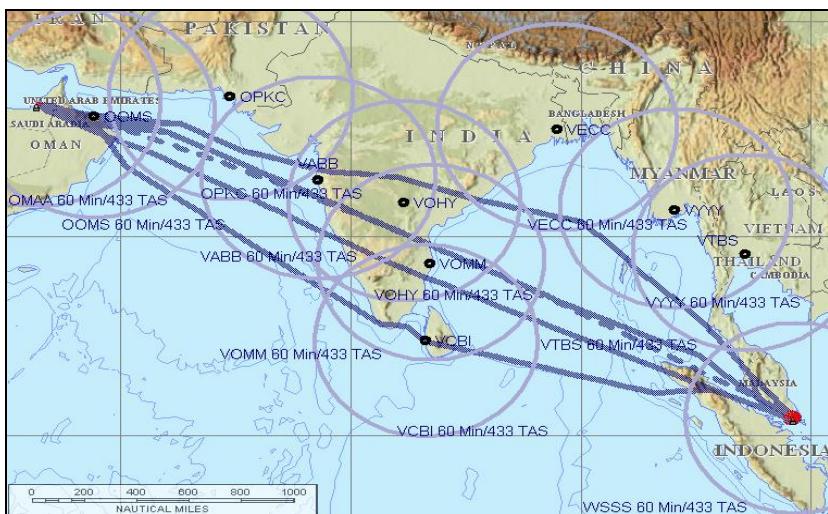
SINGAPORE

ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.
Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below.
Plain lines are possible routings.
Dotted line is great circle route.

ENROUTE INFORMATION

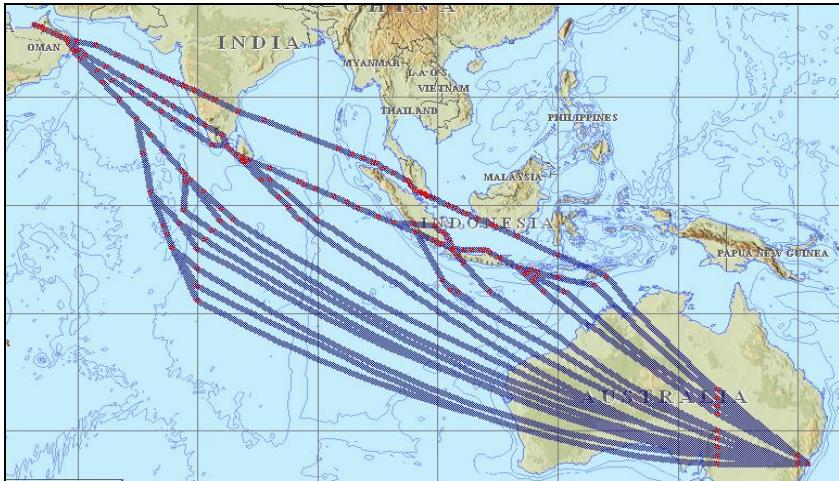
- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)

- **MUSCAT**
- **KARACHI**
- **MUMBAI**
- **AHMEDABAD**
- **CHEENNAI**
- **COCHIN**
- **THIRUVANANTHAPURAM**
- **COLOMBO**
- **KOLKATA**
- **YANGON**
- **BANGKOK**
- **PENANG**
- **KUALA LUMPUR**
- **JOHOR BAHRU**

- Highest enroute GRID MORA
 - ◆ MOST CRITICAL MORA 14500 FEET AT MEMAK

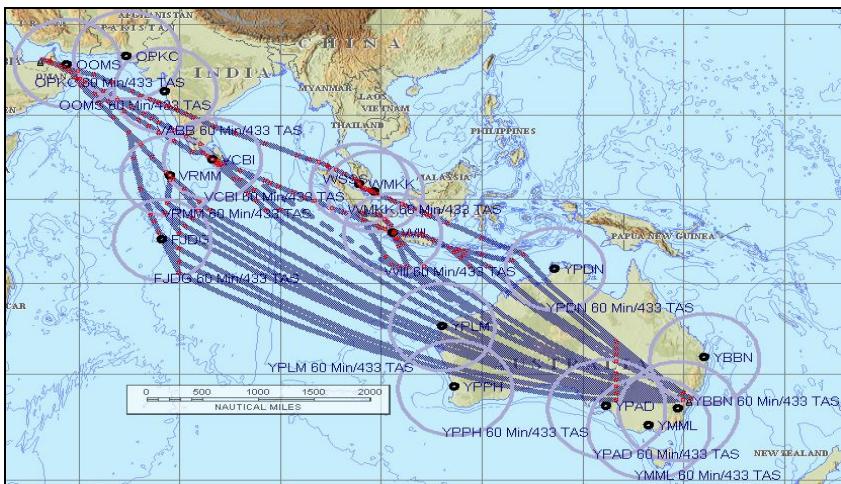
SYDNEY

ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.
Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below.
Plain lines are possible routings.
Dotted line is great circle route.

ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)

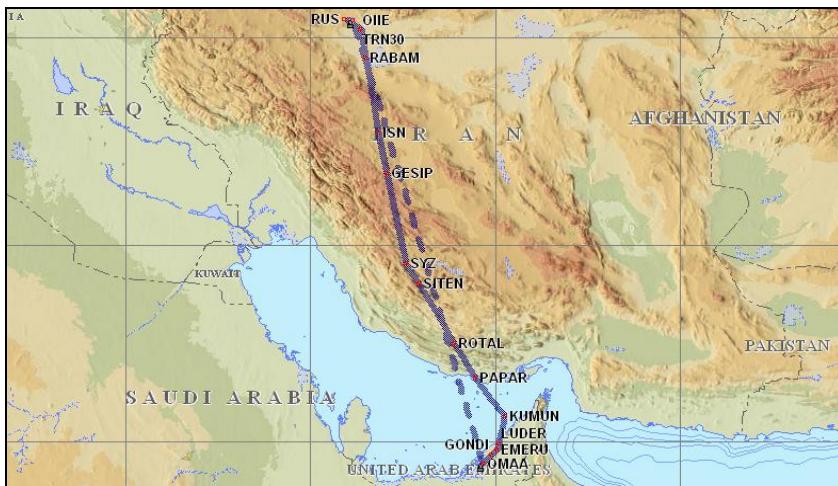
- MUSCAT (OOMS)
- MUMBAI (VABB)
- KARACHI (VPKC)
- COLOMBO (VCBI)
- MALE (VRMM)
- KUALA LUMPUR (WMKK)
- SINGAPORE (WSSS)
- JAKARTA (WIII)
- BALI (WADD)
- LEARMONT (YPLM)
- DARWIN (YPDIN)
- PERTH (YPFH)
- CANBERRA (YSCB)

➤ **Most Critical Grid MORA**

- ◆ 14800 ft at WALET

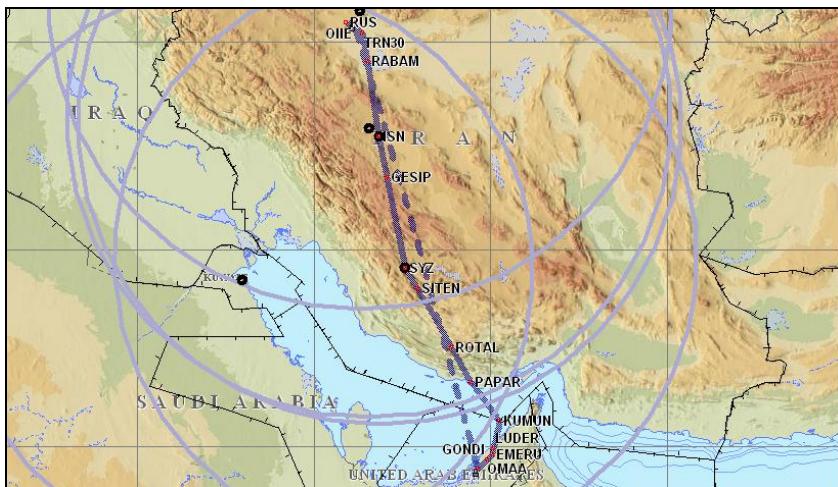
TEHRAN

ROUTINGS-GEOGRAPHICAL VIEW



Note:- Plain lines are possible routings.
Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note:- 60 min circles based on possible enroute alternates listed below.
Plain lines are possible routings.
Dotted line is great circle route.



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ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - ✈ DUBAI (OMDB)
 - ✈ ESFAHAN – SHAHID BEHESHTI (OIFM)
 - ✈ TEHRAN – MEHRABAD INTL (OIII)
 - ✈ KUWAIT INTL (OKBK)
- Highest enroute Grid MORA
 - ◆ MOST CRITICAL MORA 15400 FEET AT GESIP.

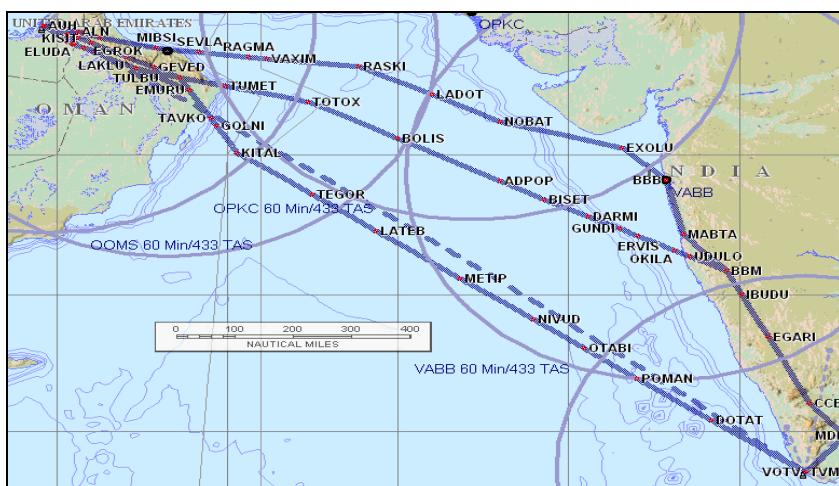
THIRUVANANTHAPURAM

ROUTINGS-GEOGRAPHICAL VIEW



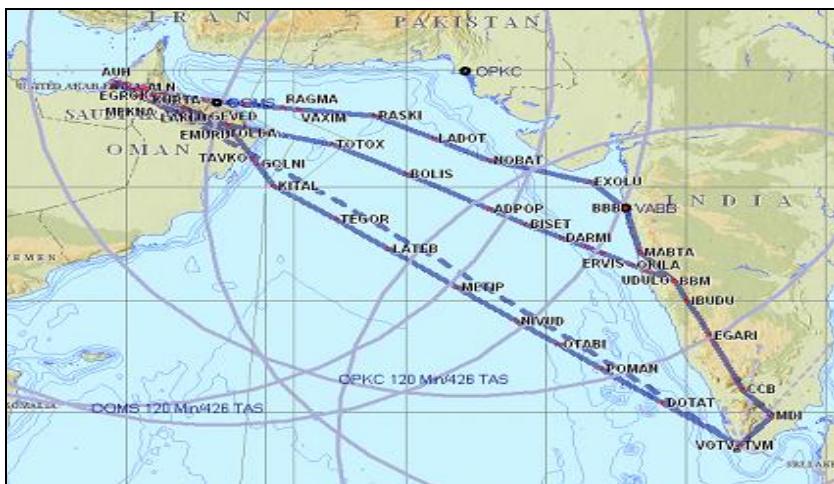
Note: - Plain lines are possible routings.
Dotted line is great circle routing.

ROUTINGS-ENROUTE ALTERNATES VIEW



Note: - 60 min circles based on possible enroute alternates listed below.
Plain lines are possible routings.
Dotted line is great circle route.

ROUTINGS-ETOPS ALTERNATES VIEW



Note: - 120 min circles based on possible ETOPS alternates.

Plain lines are possible routings.

Dotted line is great circle route.

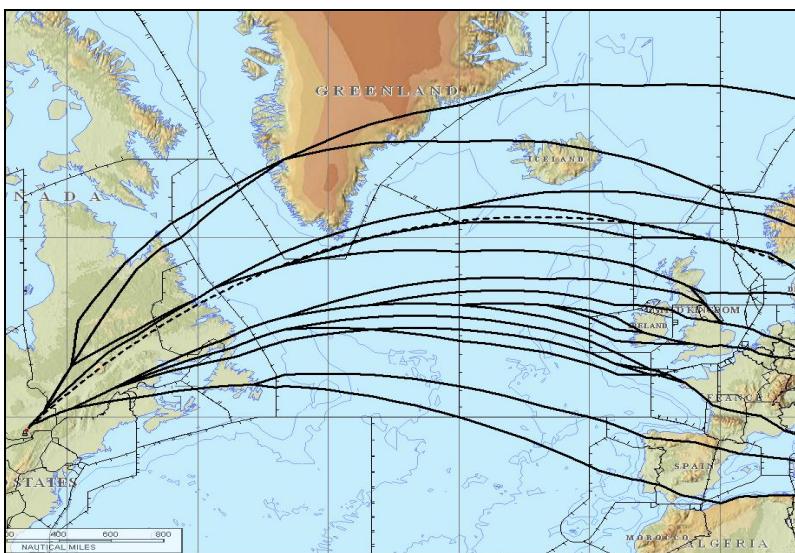
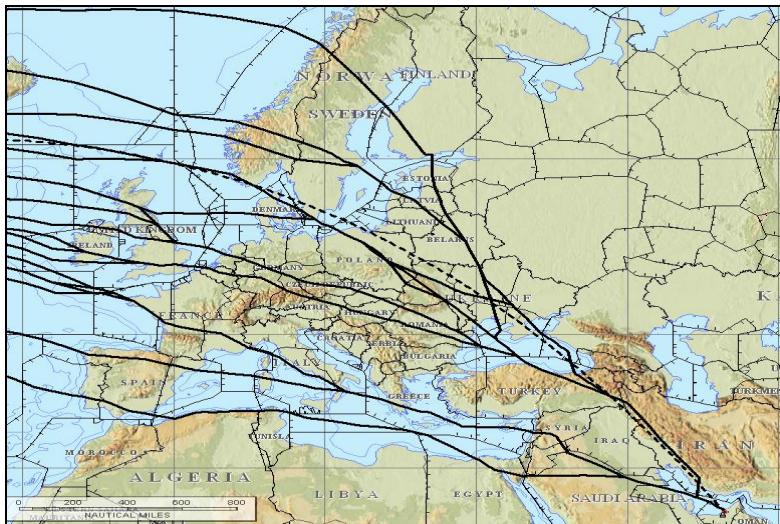
ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - ✈ MUSCAT (OOMS)
 - ✈ KARACHI (OPKC)
 - ✈ MUMBAI (VABB)
 - ✈ AHMEDABAD – (VAAH)
 - ✈ COCHIN – (VOCI)
 - ✈ KATUNAYAKE / COLOMBO – (VCBI)
- Highest enroute Grid MORA
 - ◆ MOST CRITICAL MORA 12400 FEET AT MIBSI.

TORONTO

Note:- For the initial part of the routes please refer to London route analysis.

ROUTINGS OCEANIC CROSSING VIEW



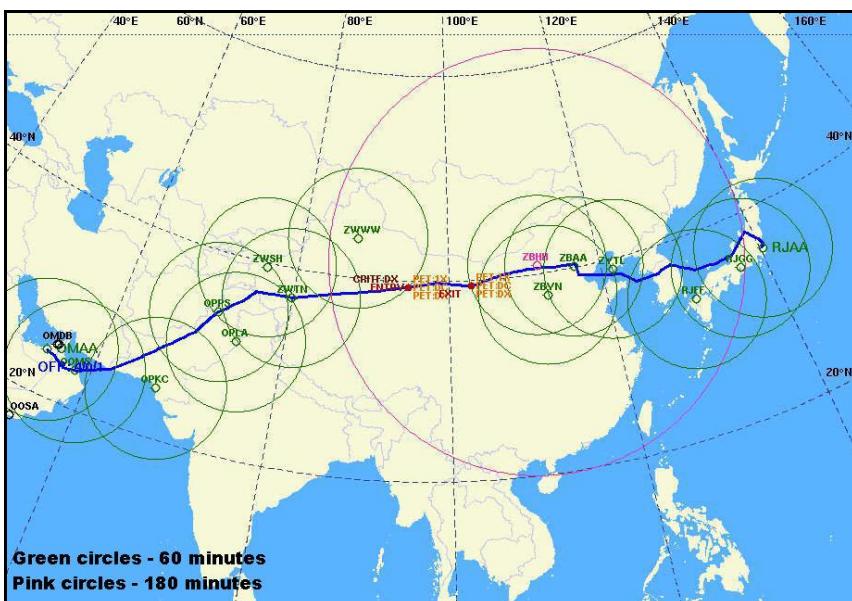
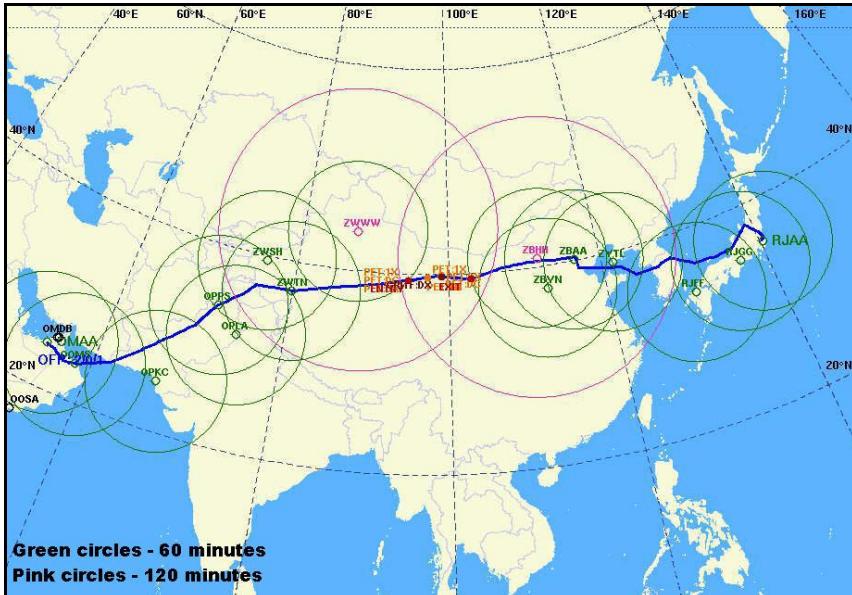
*Note:- These routings are for example only.
For actual tracks refer to NAT TRACK message.*

ENROUTE INFORMATION

- Possible enroute alternates:
(Applicable to all ETIHAD aircraft types)
 - For the initial part of the flight refer to London route analysis.
 - For the NAT crossing refer to ETOPS Alternates.

TOKYO (NARITA INTL)

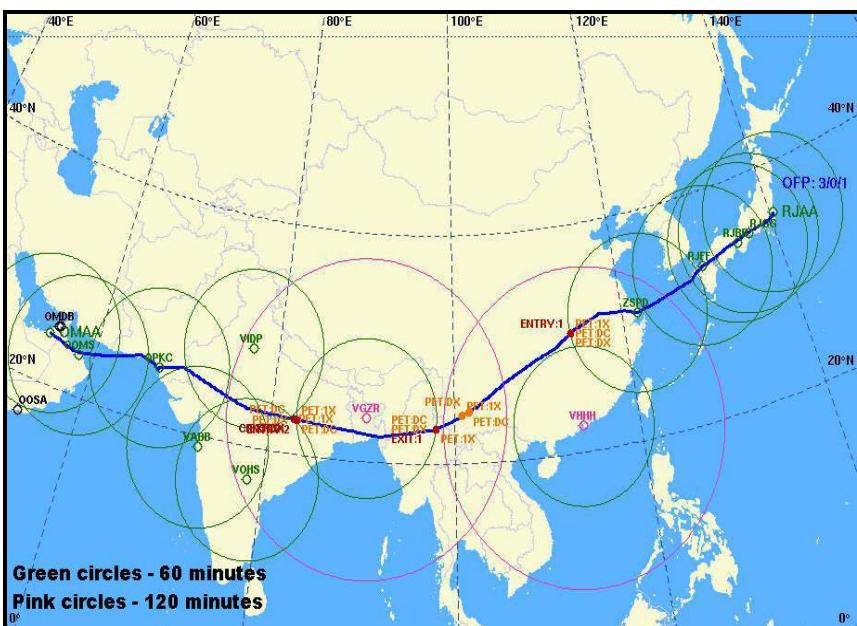
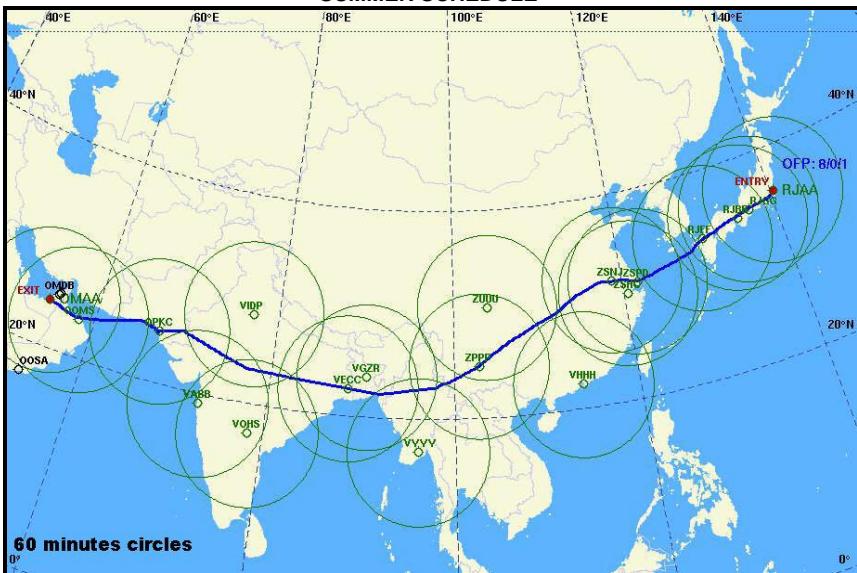
**AUH TO NRT - ENROUTE ALTERNATES - ETOPS 120 & 180 MIN VIEW
SUMMER SCHEDULE**



ENROUTE INFORMATION

- Possible enroute alternates:
 - KARACHI (OPKC)
 - PESHAWAR (OPPS)
 - LAHORE (OPLA)
 - KASHI (ZWSH)
 - HOTAN (ZWTN)
 - URUMQI (ZWWW)
 - HOHHOT (ZBHH)
 - TAIYUAN (ZBYN)
 - BEIJING (ZBAA)
 - DALIAN (ZYTL)
 - FUKUOKA (RJFF)
 - OSAKA – KANSAI INTL (RJBB)
 - NAGOYA – CHUBU CENTRAIR INTL (RJGG)
- Highest enroute MORA
 - ♦ Most critical MORA 27500 feet at PURPA

**NRT TO AUH - ENROUTE ALTERNATES – 60 MIN & ETOPS 120 MIN VIEW
 SUMMER SCHEDULE**



ENROUTE INFORMATION

- NRT-AUH is normally a non ETOPS sector. Possible enroute alternates:
 - ✈ NAGOYA – CHUBU CENTRAIR INTL (RJGG)
 - ✈ OSAKA – KANSAI INTL (RJBB)
 - ✈ FUKUOKA (RJFF)
 - ✈ NANJING (ZSNJ)
 - ✈ SHANGHAI – PUDONG (ZSPD)
 - ✈ HANGZHOU (ZSHC)
 - ✈ HONG KONG (VHHH)
 - ✈ CHENGDU (ZUUU)
 - ✈ KUNMING (ZPPP)
 - ✈ YANGOON (VYYY)
 - ✈ DHAKA (VGHS)
 - ✈ KOLKATA (VECC)
 - ✈ DELHI (VIDP)
 - ✈ HYDERABAD (VOHS)
 - ✈ MUMBAI (VABB)
 - ✈ KARACHI (OPKC)
- Highest enroute MORA
 - ♦ Most critical MORA 13000 feet at GMA