Flight Planning

Download (CCI):

- Flight planEFLIGHT PLAN, or JPD
- Crew listNS/NST
- Track Message SLS*EAST(WEST)/NO

Evaluate Track Message:

- check date/time for validity, date/time at 30°W
- check remarks
- · compare track waypoints to body of flight plan
- determine if on a PBCS track
- □ Current crew passports/visas. {FOM 20.4.5}
- Check Chart Change Notices/NOTAMS. {FOM 2.3.5, 2a.3.3}
- □ AIREP Form and plotting chart.

Download WSI Weather Charts (FOM 3w.1.6):

- Wind Prog FL 340
- High Level Sig Prog
- Volcanic Ash Info (or SLA*VA/ALL DM)

Preflight {FOM Chapter 3}

- □ Fit for Duty (FOM 3g.1.3) CCI/Preflight page
- General Declarations (if required).
- Customs declarations forms (if required)
- ETOPS Pre-Departure Check (FOM 3m.3.1) Entered in AML
- □ Review AML for ETOPS inflight verification check (see Approaching Oceanic Entry Point on page 3).
- □ Water/LAV Service..... Verify accomplished
- Security Search (FOM 3s.5)..... Verify accomplished
- B777 only, SEL 28 (AOM 20.1.1)
 - Aircraft nose numbers: 7AA 7CA only
 - 700 pounds of additional fuel *must* appear on the flight plan when RLS FUEL is greater than 117,000 pounds.
- □ NOTOC.....Acknowledged (if applicable)
- □ Verify iPad EFBs current (FOM 25.4) and loaded with flight release. (FOM 3f.2)
- □ TSA Lavatory PA (US-bound flights). {FOM 3c.6.4}

Enroute

- Change ICAO STEP on VNAV CRZ page to 1000 feet when evaluating cruise altitudes at OEP (FP, highest acceptable, OPT/MAX/RECMD).
- □ Logon CPDLC when approaching area with CPDLC (10-25 minutes prior to entry).

				mca		
	ARN	ESSA	Stockholm	SNN	EINN	Shannon
	BDA	TXKF	Bermuda	THU	BGTL	Thule
	BRU	EBBR	Brussels	WAW	EPWA	Warsaw
	CDG	LFPG	Paris	YEG	CYEG	Edmonton
	HEL	EFHK	Helsinki	YQX	CYQX	Gander
	LGW	EGKK	London Gatwick	YUL	CYUL	Montreal
	MAD	LEMD	Madrid	YYC	CYYC	Calgary
	MAN	EGCC	Manchester	YYZ	CYYZ	Toronto
	OSL	ENGM	Oslo	ZRH	LSZH	Zurich
_						

ACARS Area Weather

CPDLC Logon (Jeppesen Airway Manual - Europe/North America)

BIRD	Reykjavik	EGGX	Shanwick
CDQX	Gander Domestic	EGTT	London
CZEG	Edmonton	EISN	Shannon
CZQM	Moncton	ENOB	Bodo
CZQX	Gander Oceanic	KZWY	New York
CZUL	Montreal	LECB	Barcelona
CZVR	Vancouver	LECM	Madrid
CZWG	Winnipeg	LFFF	Paris
CZYZ	Toronto	LPPC	Portugal
EDUU	Rhein	LPPO	Santa Maria
EDYY	Maastricht	LSAG	Geneva
EGPX	Scottish Fir	LSAZ	Zurich

FIR Communication Formats {FOM Sub-Chapter 7c}

Entering a participating flight information region (FIR), contact the FIR radio facility for HF frequency assignments and to establish a SELCAL watch. If the flight will exit the current FIR into another oceanic FIR use the following procedure:

After the radio operator responds, request a SELCAL check and state the next CTA:

Example: "Gander, American ##, SELCAL check, Shanwick next."

If the flight enters an oceanic CTA followed by ATS surveillance airspace (i.e., domestic airspace), follow the procedures described above with the exception that the next CTA should <u>not</u> be stated.

Example: "Shanwick Radio, American ##, SELCAL check."

Note: If the initial call is to a VHF radio operator, they will provide HF frequencies for SELCAL check/watch.

NAT HLA Clearances

1. A **separate clearance** is required prior to entry into North Atlantic High Level Airspace (NAT HLA).

NAT HLA includes Bodo, Gander, New York*, Reykjavik, Santa Maria, and Shanwick (excluding Shannon/Brest transition) oceanic areas.

*See New York Clearance - Western Atlantic Route System (WATRS) on page 2.

- 2. Use one of the following options to get a clearance: DATA LINK, ACARS or VOICE.
 - Data Link: B777-300, B787
 - COMM/COMPANY/Free Text: B777-200
 - If unable DATA LINK/COMPANY revert to VOICE

Obtain Oceanic Clearance	Voice – Eastbound {FOM 7c.4.5}		
Gander: 90 - 60 minutes prior to OEP	Gander OCA (CZQX): by VOICE		
Shanwick: 90 - 30 minutes prior to OEP	Gander Oceanic Clearance Delivery not available. Contact		
Reykjavik: 25 - 20 minutes prior to OEP	domestic controller 200 nm prior to oceanic entry point for		
Santa Maria: at least 40 minutes prior to OEP	oceanic clearance.		
(See Oceanic Clearances Exceptions on page 4.)	Revkiavik OCA (BIRD) – (Eastbound): by VOICE		
P777 200 and P797	Rule of thumb: Send RCI, when 20-25 minutes from the Entry		
DATALINK Clearance (CZOX EGGX BIRD LPPO ENOB)	Point.		
1 COMM page - select	1. Data link: BIRD.		
2 ELICHT INFORMATION monu	2. From Iceland Radio on HF.		
	3. Air crews approaching Reykjavik airspace from the Scottish		
3. OCEANIC CLEARANCE REQ - Select.	and Stavanger areas can contact Iceland Radio on		
4. Enter: FLIGHT NUMBER (If required), ENTRY POINT,	VHF primary 127.85, secondary 129.625 to obtain the		
MACH Use free text to add "ABLE FL XXX" (if required)	oceanic clearance.		
5 SEND	4. Entry from Edmonton/Murmansk: Contact Iceland Radio on		
Note: If upable, or requested, revert to voice	HF, or ask domestic controller for clearance (JeppFD-Pro).		
	Voice – Westbound {FOM 7c.4.5}		
B777-200	Bodo OACC (ENOB): by voice		
Clearance request - Gander Or Shanwick OCA	1. Contact Bodo on 127.725 not later than 15 minutes prior to		
1. COMM page - select COMPANY - FREE TEXT page.	entering BODO OACC or		
2. G for Garider of S for Shariwick.	2. BODO Radio on NAT HLA family D frequencies not later		
or leading zeros)/ELIGHT LEV/EL (2 digits)	than 30 minutes prior to entering. SELCAL check is		
Example line 1: C/TUDED/11/12/24/26	mandatory.		
Line 2 ABLE EL (2 digite)	Reykjavik OCA (BIRD) – (Westbound): Entry over RATSU		
4. LINE 2 - ADEE FE (3 digits). Example line 2: ABLE FE 380	and points east by VOICE		
	1. Flights intending to enter NAT HLA Oceanic airspace via		
B777 and B787	Call Iceland radio on VHE primary on 127.85 secondary		
After oceanic clearance request message sent:	129.625 to obtain the oceanic clearance.		
First Message - "SENT TO GANDER/SHANWICK" (B777-200)	2. The required oceanic clearance will be issued by Reykjavik		
Second Message - "AALXXX RCL RECEIVED"	Control. There are three points established at the boundary		
Eastbound: "IF NO CLEARANCE WITHIN 30 MINUTES OF	of delegated airspace from Scottish to Reykjavik, BESGA,		
UCEANIC ENTRY POINT REVERT TO VOICE	DEVBI and BARKU on routes to RATSU.		
MINITES REVERT TO VOICE"	3. Reykjavik will issue oceanic clearances from those points.		
Third Message- "ATC OCEANIC CLEABANCE"	to those points shall enter Revkiavik airspace at the		
COMM alert COMM SWITCH - Press: SELECT PRINT	domestic cleared flight level while awaiting such oceanic		
Press ACPT (accept) on Glareshield Panel	clearance.		
Fourth Message- "CLEARANCE CONFIRMED"	Santa Maria OACC (LPPO): Voice or Data Link - at least 40		
New York Clearance - Western Atlantic Poute System	minutes prior to OCA		
New TOTK Clearance - Western Allantic Route System			
(WATRS)	1. Call on VHF frequency 132.07/ HF 8906 and request		
(WATRS) Clearance if transiting New York Oceanic (WATRS) into	1. Call on VHF frequency 132.07/ HF 8906 and request oceanic clearance. Give: Entry Point and Time / Altitude		
(WATRS) Clearance if transiting New York Oceanic (WATRS) into NAT HLA (only from an FAA facility)	1. Call on VHF frequency 132.07/ HF 8906 and request oceanic clearance. Give: Entry Point and Time / Altitude and Mach Requested and SELCAL.		
(WATRS) Clearance if transiting New York Oceanic (WATRS) into NAT HLA (only from an FAA facility) 1. Clearance received at the departing station (VOICE, DCL	 Call on VHF frequency 132.07/ HF 8906 and request oceanic clearance. Give: Entry Point and Time / Altitude and Mach Requested and SELCAL. Standby on VHF or HF SELCAL for receipt of clearance. 		
 (WATRS) Clearance if transiting New York Oceanic (WATRS) into NAT HLA (only from an FAA facility) 1. Clearance received at the departing station (VOICE, DCL or PDC) is a valid clearance through NAT HLA. 	 Call on VHF frequency 132.07/ HF 8906 and request oceanic clearance. Give: Entry Point and Time / Altitude and Mach Requested and SELCAL. Standby on VHF or HF SELCAL for receipt of clearance. Read back the entire clearance on this frequency. 		
 (WATRS) Clearance if transiting New York Oceanic (WATRS) into NAT HLA (only from an FAA facility) 1. Clearance received at the departing station (VOICE, DCL or PDC) is a valid clearance through NAT HLA. 2. No other route clearance will be issued <i>unless</i> there is a 	 Call on VHF frequency 132.07/ HF 8906 and request oceanic clearance. Give: Entry Point and Time / Altitude and Mach Requested and SELCAL. Standby on VHF or HF SELCAL for receipt of clearance. Read back the entire clearance on this frequency. Shanwick OCA (EGGX): by voice (Data Link <u>not</u> available) 		
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 (WATRS) Clearance if transiting New York Oceanic (WATRS) into NAT HLA (only from an FAA facility) 1. Clearance received at the departing station (VOICE, DCL or PDC) is a valid clearance through NAT HLA. 2. No other route clearance will be issued <i>unless</i> there is a change. 3. ATC will assign an altitude and Mach prior to OEP. Note: These two items plus the predeparture clearance routing constitute a valid clearance. 	 Call on VHF frequency 132.07/ HF 8906 and request oceanic clearance. Give: Entry Point and Time / Altitude and Mach Requested and SELCAL. Standby on VHF or HF SELCAL for receipt of clearance. Read back the entire clearance on this frequency. Shanwick OCA (EGGX): by voice (Data Link <u>not</u> available) Note: Do <u>not</u> enter Shanwick OCA without clearance. Contact Shanwick Oceanic Clearance Delivery on 123.95 anytime within VHF range. Request clearance using clearance request format (see 		
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Voice Clearance Request and Read Back Formats

Clearance Request

"American XX requesting oceanic clearance, estimating ____ (entry fix) at ___Z, requesting FL___, Mach___" (And highest acceptable FL which can be maintained by OCA entry point).

Read Back – NAT HLA Clearance

"American ## is cleared via track__, TMI___, FL___, Mach___".

Read Back – Random Route or "Via Flight Planned Route"

"American # is cleared via, <fix>, <fix>, <fix>, <fix>, etc. Mach____, FL____."

Note: If any doubt, give a full readback rather than an abbreviated one.

After Receipt of Oceanic Clearance (FOM 7i.3.5)

Fly the **clearance** <u>not</u> the flight plan (FP).

Accomplish the following <u>clearance</u> <u>check</u>:

PF and PM- separately review the oceanic clearance vs FMS.

- □ **PM** will compare the oceanic clearance to the FMS LEGS (expand all oceanic waypoints) and note any changes.
- PF will compare the oceanic clearance to the FMS LEGS (expand all oceanic waypoints); any differences will be <u>immediately</u> changed in the FMS by the PF while the PM confirms the accuracy of the changes

Note: Half-degree coordinates can only be checked by expanding the waypoints. Caution is required to ensure these coordinates are correctly entered in the FMS..

If Clearance Differs from Flight Plan (Re-Route)

- Advise dispatch of revised routing.
- Obtain new flight plan via FREE TEXT or correct current MFP.
- □ Obtain revised FLT PROGRESS/FPR.
- □ Plot revised route and label waypoints as required.
- Update winds for new route/altitude.

Note: In oceanic airspace, fly clearance as received until ATC issues further routing. Planned routing (from dispatch) should <u>not</u> be construed as an ATC clearance

- 1. Confirm master flight plan and oceanic clearance agree.
- Plot route and label each waypoint (if <u>not</u> already accomplished) and proceed as follows:

One pilot (**PM** or **PF**) will read aloud FMS waypoints while the *other* pilot checks them against the oceanic clearance/MFP and places a circle (\bigcirc) above the waypoint on the plotting chart or paper copy of MFP.

Prior to Oceanic Entry Point (OEP) {FOM 7i.2.7} (Comply365> Charts/Diversion Guide> ETOPS Airspace Charts)

Determine the ETOPS entry point utilizing the FIX page. **ETOPS Alternate Planning/Diversion Guide:**

- □ Update alternate WX, forecast, and NOTAMs.
- Evaluate potential diversion airport(s): FIRE, Mechanical, Medical/Passenger.

Approaching Oceanic Entry Point

- Check assigned Mach in FMC.
- Confirm at cleared cruise altitude and set in FMC.
- If required, complete any ETOPS In Flight Verification Check(s); such as an in flight engine check, an in flight APU start, etc., prior to ETOPS entry.

Note: Ensure the required AML entries are made prior to entering ETOPS airspace.

After Oceanic Entry Point

- Operational HF/SELCAL check (if not already done).
- □ Tune left VHF radio to 121.5 and right VHF to 123.45.
- □ Transponder to 2000 when 30 minutes past oceanic entry or as directed (REMINDERS page).
- □ Establish SLOP [see Strategic Lateral Offset Procedure(SLOP){FOM7c.4.5} on page 4].

CPDLC Message

- 1. Set max uplink delay to 300 seconds (see Set Max Uplink Delay on page 4 for more information).
- Confirm assigned route (see Confirm Assigned Route on page 4 for more information).
- 3. Resume normal speed (see Resume Normal Speed on page 4 for more information).

Oceanic Procedures (FOM 7i.3.6)

Approaching Active Oceanic Waypoint

- 1. Both pilots must verify the expanded full Lat/Long waypoints for the next and the following waypoint agree with the flight plan and/or current ATC clearance.
- Check course and distance between current active waypoint and the next waypoint agree with the flight plan or current ATC clearance.
- 3. Draw a diagonal line (\emptyset) through the circle on the plotting chart adjacent to the waypoint (or paper MFP waypoint) to indicate verification was accomplished.

Waypoint Passage

- 1. Confirm next waypoint becomes active waypoint.
- 2. Verify autopilot is coupled to LNAV.
- 3. Draw a second diagonal line (𝔅) through the circle on the plotting chart adjacent to the waypoint (or paper MFP waypoint) indicating passage.
- 4. Record time and fuel on FPR.
- 5. Complete AIREP Form/transmit report (if required).

Post Waypoint Position Check (2 Degrees or 10 Minutes)

- 1. Confirm aircraft symbol on programmed route.
- 2. Check cross track deviation from programmed route.
- 3. Verify LNAV engaged, active waypoint is correct.
- 4. Correct any anomalies or deviations.

Midpoint Check

- Check ETA for active waypoint. If ETA has changed by 3 minutes or more from what was reported to ATC revise estimate using CPDLC, ATC free text, or voice. If transmitting position via ADS-C, no need to update ETA.
- 2. Check for satisfactory fuel quantity/balance and trend.

Oceanic Exit {FOM 7i.3.8}

- 1. Confirm ATC clearance (if required).
- If applicable, communicate acceptance/rejection of redispatch message. Redispatch may be received up to 2 hours prior; however, if <u>not</u> received within 1 hour from redispatch point, contact the dispatcher.
- 3. Request desired altitude and Mach from ATC.
- 4. Confirm SLOP offset is zero.
 - Note: Do not go direct to the oceanic exit point.

Standard Entry/Exit Briefing (FOM 7c.1.1)

Prior to PF or captain leaving the flightdeck or after any assigned pilot re-enters the flightdeck while enroute:

- □ PF brief/PM review aircraft status from FMA.
- PF brief additional items (aircraft systems status, weather, ATC clearance/frequency change).
- □ For a crew rest break the captain/PIC will brief:
 - a designated PIC
 - weather deviation options and procedures
 - current and *expect* clearances (e.g., redispatch, step climbs, etc.)
 - diversion options to include alternate airports and weather, departure from track/airway procedures, ETPs, and terrain awareness areas
 - any other operational considerations (e.g., datalink clearances, required radio frequency or transponder code changes)
 - crew rest location(s) (bunk or rest seat) as applicable

SATCOM Quick Reference

For ATC communications CPDLC/HF may be more effective.

SATCOM INMARSAT (B777)

- 1. MENU, SAT (2L), AA DISP #s [5R].
- 2. Select Dispatch Desk #.
- For INMARSAT select ATC emergency from SAT MAIN MENU scratch pad, enter in 1L or 3L.

4. PLACE CALL (2R or 4R).

SATCOM INMARSAT (B787)

- 1. Select SAT on the TCP.
- From the SAT PHONE page, if the desired dispatch desk (DSP DSK XX) or ground station is displayed in line 1L or 3L, proceed to step 4.
- To select a ground station from the SAT DIRECTORY, select DIRECTORY at line 2R. Select the desired ground station to SAT 1 or SAT 2. The display will return to the SAT PHONE page.
- 4. If required, select a priority (EMG, HGH or LOW). Press the MAKE CALL for the desired SAT radio.

Strategic Lateral Offset Procedure(SLOP) {FOM7c.4.5}

SLOP is a standard operating procedure for the entire region and apply for organized tracks (OTS) and random routes. The options are a 1 or 2 nm offset to the right, or centerline.

- **Note:** Aircraft (e.g., B787) able to perform offsets in tenths of nautical mile should do so as it contributes to risk reduction.
- 1. Offset using LNAV, not heading select.
- 2. Do not advise ATC or request ATC clearance.
- 3. Return to course by oceanic exit point by deleting offset.

- Set Max Uplink Delay
- 1. Select ATC from Communication Main Menu.
- 2. Select LOGON/STATUS.
- 3. Set MAX UPLINK DELAY to 300 seconds.

Confirm Assigned Route

- Select DISPLAY REPORT prompt.
- □ ATC REPORT page shows SLOP as DEV.
- Select SEND.

Resume Normal Speed

Remove the speed restriction:

If the aircraft receives RESUME NORMAL SPEED (via CPDLC or voice), there is no longer a need to comply with a previously issued Mach. Advise ATC if speed will be adjusted plus or minus Mach 0.02 or more from last assigned mach.

2° and 5° Midpoint Check Technique

Enter 2° and 5° past waypoint-10 in RTE 2 LEGS.

Note: Do <u>not</u> modify RTE 1 LEGS.

Eastbound example for:

- waypoint W050: enter W048-10
- midpoint W045: enter W045-10

Note: The REMINDERS function can also be used.

Oceanic Clearances Exceptions

When operating in New York oceanic airspace, Moncton or Gander ACCs are responsible for delivering the oceanic clearance.

Note: If there are any questions regarding how to get an oceanic clearance, ask the domestic controller.

New York

If a flight enters New York oceanic at SLATN, JOBOC, or DOVEY **and** does <u>not</u> enter airspace delegated to either Moncton or Gander ACC, then fly the clearance received via CPDLC-DCL *unless* amended. New York ATC will confirm requested altitude and speed. The TMI is required during the readback if assigned an organized track.

Moncton

If a flight enters airspace delegated to Moncton ACC **and** returns to New York oceanic (via AVAST, NOVOK, or JEBBY) **and** does <u>not</u> enter Gander Domestic ACC airspace, then fly the clearance received via CPDLC-DCL *unless* amended. Moncton ATC will confirm requested altitude and speed.

Gander

If a flight enters airspace delegated to Gander ACC (DOPHN, JAROM, BOBTU, TALGO, or RAFIN) via Moncton ACC or New York oceanic **and** enters NAT airspace through either Gander or New York then request oceanic clearance with Gander oceanic via ACARS (data link) or voice.



applicable to operations where there is a predominant traffic flow (e.g., east-west) or parallel track system where the aircraft's diversion path will likely cross adjacent tracks or routes.

The descent can decrease the likelihood of conflicts with other aircraft, TCAS RA events, and delays in obtaining a revised ATC clearance.

 b. Climb/descend 500 feet and maintain an altitude that differs by 500 feet (1000 feet if above FL410) from altitudes normally used.

Caution: Altimetry system error may lead to less than actual 500 feet vertical separation and TCAS RAs may occur.

- Turn exterior lights on and advise other aircraft on 121.5/ 123.45 "mayday or pan-pan" (as appropriate).
- 4. Proceed as required by the operational situation or ATC clearance (if obtained).
- 5. Advise ATC: "mayday or pan-pan" (as appropriate) using CPDLC, HF, SATCOM, or 121.5.

- Weather Deviations (FOM 7n.3.1)
- 1. Request weather deviation clearance from ATC.
- 2. If clearance is denied or no communication is established and deviating:
 - less than 5 nm: remain at ATC assigned FL
 - 5 nm or greater with a magnetic track/route centerline:



Note: Climb or descent mandatory if deviation is 5 nm or *greater*.

- 3. Alert other aircraft on 121.5 or 123.45.
- 4. Watch for traffic. Turn on exterior lights.
- 5. When returning to track/route, be at assigned FL when *less than* 5 nm of centerline.

Loss of Cabin Pressure

Accomplish Departing Route/Track on page 5.

Caution: See Diversion Guide rapid depressurization procedures for flights north of 66°N over Greenland.

Medical {FOM 1p.2}

- 1. Refer to FOM> Fast Reference Links> Medical Emergencies.
- 2. Obtain revised clearance if required. If unable, accomplish Departing Route/Track on page 5.

(Comply365> Charts/Diversion Guide> Diversion Guide)

