Departure Route Description

Unless otherwise assigned by ATC:

All rwys: Maintain 5000.

Rwy 05: Requires a minimum climb gradient of 360 ft/NM to 2700. Depart rwy 05, climb hdg 057° to 1000. Climbing LEFT turn hdg 047° or as assigned. Expect radar vectors to MOBEL (or as assigned) then proceed via depicted route.

Rwy 06L: Requires a minimum climb gradient of 400 ft/NM to 2700. Depart rwy 06L, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to MOBEL (or as assigned) then proceed via depicted route.

Rwy 06R: Requires a minimum climb gradient of 390 ft/NM to 2700. Depart rwy 06R, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to MOBEL (or as assigned) then proceed via depicted route.

Rwy 15L: Requires a minimum climb gradient of 390 ft/NM to 3000. Depart rwy 15L, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to MIXUT (or as assigned) then proceed via depicted route.

Rwy 15R: Requires a minimum climb gradient of 380 ft/NM to 3000. Depart rwy 15R, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to MIXUT (or as assigned) then proceed via depicted route.

Rwy 23: Depart rwy 23, climb hdg 237° to 1100. Climbing RIGHT turn hdg 245° or as assigned. Expect radar vectors to MIXUT (or as assigned) then proceed via depicted route.

Rwys 24L & 24R: Depart rwy 24L/R, climb hdg 237° to 1000. Climbing LEFT turn hdg 235° or as assigned. Expect radar vectors to MIXUT (or as assigned) then proceed via depicted route.

Rwy 33L: Requires a minimum climb gradient of 250 ft/NM to 900. Depart rwy 33L, climb hdg 327° to 1100. Climbing RIGHT turn hdg 345° or as assigned. Expect radar vectors to NUBAX (or as assigned) then proceed via depicted route.

Rwy 33R: Depart rwy 33R, climb hdg 327° to 2100. Climbing RIGHT turn hdg 340° or as assigned. Expect radar vectors to NUBAX (or as assigned) then proceed via depicted route.

<table>
<thead>
<tr>
<th>GROUND SPEED</th>
<th>90</th>
<th>120</th>
<th>140</th>
<th>160</th>
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</tr>
</tbody>
</table>

Communication Failure

On recognition of failure 20 minutes or less after take-off and in IFR weather conditions proceed as follows:

1. Select transponder code 7600;
2. Beyond 10 NM from CYYZ proceed directly on course;
3. Do not climb above last assigned altitude for 5 minutes after recognition of failure, then;
4. Climb to flight planned altitude.
Radar Required

Rwys 05, 06L, 06R, 23, 24L, 24R

Jet actt only

For use by GNSS or D/T/I equipped actt. Actt with selectable CDI must be set to 1 NM sensitivity. Actt without selectable CDI must use flight director.

Caution: Rwys 05, 06L, 06R, 23, 24L, 24R departures: Simultaneous parallel departures in use.

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019
SID (RNAV) TORONTO/LESTER B. PEARSON INTL, ON
CYYZ

ANCOL FOUR DEP (ANCOL4.)

DEP - 128.8 127.67

TWR - 113.35 118.7

Rwyls 15L, 15R, 33L, 33R
Jet actl only

For use by GNSS or D/I equipped actl. Actl with selectable CDI must be set to 1 NM sensitivity. Actl without selectable CDI must use flight director.

Canada Air Pilot

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019

CYYZ-SID-1C

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SID (VECTOR)
ARROW THREE DEP (ARROW3.)

CYYZ-SID-2A
TORONTO/LESTER B. PEARSON INTL, ON
CYYZ

Departure Route Description

Note: Aircraft assigned a turn at take-off, commence turn at 1100.

Rwy 05: Requires a minimum climb gradient of 360 ft/NM to 2700. Depart rwy 05 hdg 057°. Intercept and maintain YTP R-055 outbound. At 5.7 DME fly hdg 047° or assigned hdg for vectors to assigned route. Climb to and maintain: Jet acft: 5000, Non-Jet acft: 3000.

Rwy 06L: Requires a minimum climb gradient of 400 ft/NM to 2700. Depart rwy 06L hdg 057° or assigned hdg for vectors to assigned route. Climb to and maintain: Jet acft: 5000, Non-Jet acft: 3000.

Rwy 06R: Requires a minimum climb gradient of 390 ft/NM to 2700. Depart rwy 06R hdg 057° or assigned hdg for vectors to assigned route. Climb to and maintain: Jet acft: 5000, Non-Jet acft: 3000.

Rwy 15L: Requires a minimum climb gradient of 390 ft/NM to 3000. Depart rwy 15L hdg 147° cross YTP 7.9 DME Ch 112(Y) at or above 3000. Maintain hdg for vectors to assigned route. Climb to and maintain: Jet acft: 5000, Non-Jet acft: 3000.

Rwy 15R: Requires a minimum climb gradient of 380 ft/NM to 3000. Depart rwy 15R hdg 147° cross YTP 7.9 DME Ch 112(Y) at or above 3000. Maintain hdg for vectors to assigned route. Climb to and maintain: Jet acft: 5000, Non-Jet acft: 3000.

Rwy 23: Depart rwy 23 hdg 237° until passing YTP. Then intercept and maintain YTP R-240 outbound. At 3.9 DME fly hdg 245° or assigned hdg for vectors to assigned route. Climb to and maintain: Jet acft: 5000, Non-Jet acft: 3000.

Rwy 24L: Depart rwy 24L hdg 237°. At YYZ 1.6 DME Ch 58(Y), turn LEFT hdg 235° or assigned hdg for vectors to assigned route. Climb to and maintain: Jet acft: 5000, Non-Jet acft: 3000.

Rwy 24R: Depart rwy 24R hdg 237°. At YYZ 1.6 DME Ch 58(Y), turn LEFT hdg 235° or assigned hdg for vectors to assigned route. Climb to and maintain: Jet acft: 5000, Non-Jet acft: 3000.

Rwy 33L: Requires a minimum climb gradient of 250 ft/NM to 900. Depart rwy 33L hdg 327° to 1100. Climbing RIGHT turn hdg 345° or assigned hdg for vectors to assigned route. Climb to and maintain: Jet acft: 5000, Non-Jet acft: 3000.

Rwy 33R: Depart rwy 33R hdg 327° to 2100. Climbing RIGHT turn hdg 340° or assigned hdg for vectors to assigned route. Climb to and maintain: Jet acft: 5000, Non-Jet acft: 3000.

<table>
<thead>
<tr>
<th>DEPARTURE CLIMB RATE V/V (FPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GROUND SPEED</td>
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<tr>
<td>250 FT/NM</td>
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<tr>
<td>390 FT/NM</td>
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<tr>
<td>400 FT/NM</td>
</tr>
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Communication Failure

On recognition of a failure 20 minutes or less after take-off and in IFR weather conditions proceed as follows:

1. Select transponder code 7600;
2. Beyond 10 DME (YYZ) proceed directly on course;
3. Do not climb above last assigned altitude for 5 minutes after recognition of failure, then;
4. Climb to flight plan altitude.

ARROW THREE DEP (ARROW3.)
CYYZ
EFF 27 APR 17
CYYZ-SID-2A

Canada Air Pilot
Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019
Quiet Hours Procedure:
For use between 0000 to 0630 local time

Unless otherwise assigned by ATC:
Jet acft maintain 5000 ASL.
Non-jet acft maintain 3000 ASL.

Do not exceed 250 kt until above 10,000 ASL.

Caution: Rw 05, 06L, 06R, 23, 24L, 24R departures:
Simultaneous parallel departures in use.

TURBO-JET/FAN AIRCRAFT ONLY

<table>
<thead>
<tr>
<th>RWY</th>
<th>NADP</th>
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<tbody>
<tr>
<td></td>
<td>1 or 2</td>
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</tbody>
</table>

★ (see CAP GEN NOISE ABATEMENT PROCEDURES)
### Departure Route Description

Unless otherwise assigned by ATC:

All rwys: Maintain 5000.

**Rwy 05:** Requires a minimum climb gradient of 360 ft/NM to 2700. Depart rwy 05, climb hdg 057° to 1000. Climbing LEFT turn hdg 047° or as assigned. Expect radar vectors to KEDSI (or as assigned) then proceed via depicted route.

**Rwy 06L:** Requires a minimum climb gradient of 400 ft/NM to 2700. Depart rwy 06L, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to KEDSI (or as assigned) then proceed via depicted route.

**Rwy 06R:** Requires a minimum climb gradient of 390 ft/NM to 2700. Depart rwy 06R, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to KEDSI (or as assigned) then proceed via depicted route.

**Rwy 15L:** Requires a minimum climb gradient of 390 ft/NM to 3000. Depart rwy 15L, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to BOVAL (or as assigned) then proceed via depicted route.

**Rwy 15R:** Requires a minimum climb gradient of 380 ft/NM to 3000. Depart rwy 15R, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to BOVAL (or as assigned) then proceed via depicted route.

**Rwy 23:** Depart rwy 23, climb hdg 237° to 1100. Climbing RIGHT turn hdg 245° or as assigned. Expect radar vectors to TILAM (or as assigned) then proceed via depicted route.

**Rwys 24L & 24R:** Depart rwy 24L/R, climb hdg 237° to 1000. Climbing LEFT turn hdg 235° or as assigned. Expect radar vectors to TILAM (or as assigned) then proceed via depicted route.

**Rwy 33L:** Requires a minimum climb gradient of 250 ft/NM to 900. Depart rwy 33L, climb hdg 327° to 1100. Climbing RIGHT turn hdg 345° or as assigned. Expect radar vectors to TETAD (or as assigned) then proceed via depicted route.

**Rwy 33R:** Depart rwy 33R, climb hdg 327° to 2100. Climbing RIGHT turn hdg 340° or as assigned. Expect radar vectors to TETAD (or as assigned) then proceed via depicted route.

#### DEPARTURE CLIMB RATE V/V (FPM)

<table>
<thead>
<tr>
<th>GROUND SPEED</th>
<th>90</th>
<th>120</th>
<th>140</th>
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</table>

**OTNIK TRANSITION:** (AVSEP5.OTNIK)

**VIGLO TRANSITION:** (AVSEP5.VIGLO)

### Communication Failure

On recognition of failure 20 minutes or less after take-off and in IFR weather conditions proceed as follows:

1. Select transponder code 7600;
2. Beyond 10 NM from CYYZ proceed directly on course;
3. Do not climb above last assigned altitude for 5 minutes after recognition of failure, then;
4. Climb to flight planned altitude.
SID (RNAV) TORONTO/LESTER B. PEARSON INTL, ON

AVSEP FIVE DEP
(AVSEP5.) DEPARTURE ROUTES

CYYZ-SID-3B

DEP – 128.8 127.57

TWR – 118.35 118.7

Radar Required
Rwys 05, 06L, 06R, 23, 24L, 24R
Jet act only.

For use by GNSS or D/DI equipped act.
Acf with a selectable CDI must be set to
1NM sensitivity. Acf without selectable CDI
must use flight director.

Caution: Rwys 05, 06L, 06R, 23, 24L, 24R departures:
Simultaneous parallel departures in use.

Eff 15 Aug 19

Canada Air Pilot

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019

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AVSEP FIVE DEP (AVSEP5) DEPARTURE ROUTES

Canada Air Pilot

Effective 0001Z 10 OCT 2019 to 0001Z 5 DEC 2019

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Radar required
Rwys 15L, 15R, 33L, 33R
Jet act only

For use by GNSS or D/DI equipped act. Acft with selectable CDI must be set to 1 NM sensitivity. Acft without selectable CDI must use flight director.

CYYZ-SID-3C
SID (RNAV) TORONTO/LESTER B. PEARSON INTL, ON
AVSEP FIVE DEP
(AVSEP5) DEPARTURE ROUTES

CYYZ
DEP – 128.8 127.57
TWR – 118.35 118.7

AVSEP
N43 56.07
W80 06.58

NUGOP
N44 08.30
W80 29.25

EFFECTIVE 15 AUG 19

Canada Air Pilot

Effective 0001Z 10 OCT 2019 to 0001Z 5 DEC 2019

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CYYZ-SID-3D

SID (RNAV)

AVSEP FIVE DEP (AVSEP5.) TRANSITION ROUTES

TORONTO/LESTER B. PEARSON INTL, ON

CYYZ

DEP – 128.8 127.57
TWR – 118.35 118.7

AVSEP FIVE DEP (AVSEP5.) TRANSITION ROUTES

EFF 15 AUG 19

Canada Air Pilot

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019
Departure Route Description

Unless otherwise assigned by ATC:

**All rwys:** Maintain 5000.

**Rwy 05:** Requires a minimum climb gradient of 360 ft/NM to 2700. Depart rwy 05, climb hdg 057° to 1000. Climbing LEFT turn hdg 047° or as assigned. Expect radar vectors to MOBEL (or as assigned) then proceed via depicted route.

**Rwy 06L:** Requires a minimum climb gradient of 400 ft/NM to 2700. Depart rwy 06L, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to MOBEL (or as assigned) then proceed via depicted route.

**Rwy 06R:** Requires a minimum climb gradient of 390 ft/NM to 2700. Depart rwy 06R, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to MOBEL (or as assigned) then proceed via depicted route.

**Rwy 15L:** Requires a minimum climb gradient of 390 ft/NM to 3000. Depart rwy 15L, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to OAKVL (or as assigned) then proceed via depicted route.

**Rwy 15R:** Requires a minimum climb gradient of 380 ft/NM to 3000. Depart rwy 15R, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to OAKVL (or as assigned) then proceed via depicted route.

**Rwy 23:** Depart rwy 23, climb hdg 237° to 1100. Climbing RIGHT turn hdg 245° or as assigned. Expect radar vectors to MURNO (or as assigned) then proceed via depicted route.

**Rwys 24L & 24R:** Depart rwy 24L/R, climb hdg 237° to 1000. Climbing LEFT turn hdg 235° or as assigned. Expect radar vectors to MURNO (or as assigned) then proceed via depicted route.

**Rwy 33L:** Requires a minimum climb gradient of 250 ft/NM to 900. Depart rwy 33L, climb hdg 327° to 1100. Climbing RIGHT turn hdg 345° or as assigned. Expect radar vectors to NUBAX (or as assigned) then proceed via depicted route.

**Rwy 33R:** Depart rwy 33R, climb hdg 327° to 2100. Climbing RIGHT turn hdg 340° or as assigned. Expect radar vectors to NUBAX (or as assigned) then proceed via depicted route.

<table>
<thead>
<tr>
<th>DEPARTURE CLIMB RATE V/V (FPM)</th>
<th>GROUND SPEED</th>
<th>90</th>
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<td>2500</td>
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</table>

**ERIE TRANSITION:** (BETES2.ERI)

**FOXEE TRANSITION:** (BETES2.FOXEE)

**AIRRA TRANSITION:** (BETES2.AIRRA)

**Communication Failure**

On recognition of failure 20 minutes or less after take-off and in IFR weather conditions proceed as follows:

1. Select transponder code 7600;
2. Beyond 10 NM from CYYZ proceed directly on course;
3. Do not climb above last assigned altitude for 5 minutes after recognition of failure, then;
4. Climb to flight planned altitude.
Radar Required

Rwys 15L, 15R, 33L, 33R

Jet act only

For use by GNSS or D/D/I equipped acft. Acft with selectable CDI must be set to 1 NM sensitivity. Acft without selectable CDI must use flight director.
Radar Required

Jet act only

For use by GNSS equipped actf. GNSS act with selectable CDI must be set to 1 NM sensitivity.

Act without selectable CDI must use flight director.

BETES TWO DEP
(BETES2) TRANSITION ROUTES

DEP – 128.3 127.57

TWR – 118.35 118.7

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019
Departure Route Description

Unless otherwise assigned by ATC:

All rwys: Maintain 3000. Aircraft assigned a turn at takeoff; commence turn at 1100.

Rwy 05: Requires a minimum climb gradient of 360 ft/NM to 2700. Depart rwy 05, climb hdg 057° to 1000. Climbing LEFT turn hdg 047° or as assigned. Expect radar vectors to AVROS (or as assigned) then proceed via depicted route.

Rwy 06L: Requires a minimum climb gradient of 400 ft/NM to 2700. Depart rwy 06L, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to AVROS (or as assigned) then proceed via depicted route.

Rwy 06R: Requires a minimum climb gradient of 390 ft/NM to 2700. Depart rwy 06R, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to AVROS (or as assigned) then proceed via depicted route.

Rwy 15L: Requires a minimum climb gradient of 390 ft/NM to 3000. Depart rwy 15L, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to DAVSI (or as assigned) then proceed via depicted route.

Rwy 15R: Requires a minimum climb gradient of 380 ft/NM to 3000. Depart rwy 15R, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to DAVSI (or as assigned) then proceed via depicted route.

Rwy 23: Depart rwy 23, climb hdg 237° to 1100. Climbing RIGHT turn hdg 245° or as assigned. Expect radar vectors to MAVAN (or as assigned) then proceed via depicted route.

Rwys 24L & 24R: Depart rwy 24L/R, climb hdg 237° to 1000. Climbing LEFT turn hdg 235° or as assigned. Expect radar vectors to MAVAN (or as assigned) then proceed via depicted route.

Rwy 33L: Requires a minimum climb gradient of 250 ft/NM to 900. Depart rwy 33L, climb hdg 327° to 1100. Climbing RIGHT turn hdg 345° or as assigned. Expect radar vectors to NUBAN (or as assigned) then proceed via depicted route.

Rwy 33R: Depart rwy 33R, climb hdg 327° to 2100. Climbing RIGHT turn hdg 340° or as assigned. Expect radar vectors to NUBAN (or as assigned) then proceed via depicted route.

DEPARTURE CLIMB RATE V/V (FPM)

<table>
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<tr>
<th>GROUND SPEED</th>
<th>90</th>
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<td>2000</td>
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</table>

MIVOK TRANSITION: (BOMET7.MIVOK)
IPTOS TRANSITION: (BOMET7.IPTOS)
MIGLO TRANSITION: (BOMET7.MIGLO)
OLABA TRANSITION: (BOMET7.OLABA)

Communication Failure

On recognition of failure 20 minutes or less after take-off and in IFR weather conditions proceed as follows:

1. Select transponder code 7600;
2. Beyond 10 NM from CYYZ proceed directly on course;
3. Do not climb above last assigned altitude for 5 minutes after recognition of failure, then;
4. Climb to flight planned altitude.
CYYZ-SID-5B

SID (RNAV)

BOMET SEVEN DEP (BOMET7.) DEPARTURE ROUTES

CYYZ

DEP – 128.8 127.57
TWR – 118.35 118.7

BOMET SEVEN DEP
(BOMET7.) DEPARTURE ROUTES

EFF 1 FEB 18

Canada Air Pilot

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019
Radar required

Rwys 15L, 15R, 33L, 33R

Non jet act only

For use by GNSS equipped acft. GNSS act with selectable CDI must be set to 1 NM sensitivity. Act without selectable CDI must use flight director.

DEP - 128.8 127.57

TWR - 118.35 118.7

EFF 1 FEB 18

EFF 27 APR 17

Canada Air Pilot
Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019
SID (RNAV) TORONTO/LESTER B. PEARSON INTL, ON
BOMET SEVEN DEP
EFF 1 FEB 18

DEP – 128.8 127.57
TWR – 118.35 118.7

Radar required
Non jet act only

For use by GNSS equipped act. GNSS act. with selectable CDI must be set to 1 NM sensitivity.
Act. without selectable CDI must use flight director.

Canada Air Pilot
Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019
Departure Route Description

Unless otherwise assigned by ATC:

All rwys: Maintain 5000.

Rwy 05: Requires a minimum climb gradient of 360 ft/NM to 2700. Depart rwy 05, climb hdg 057° to 1000. Climbing LEFT turn hdg 047° or as assigned. Expect radar vectors to ALKUT (or as assigned) then proceed via depicted route.

Rwy 06L: Requires a minimum climb gradient of 400 ft/NM to 2700. Depart rwy 06L, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to ALKUT (or as assigned) then proceed via depicted route.

Rwy 06R: Requires a minimum climb gradient of 390 ft/NM to 2700. Depart rwy 06R, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to ALKUT (or as assigned) then proceed via depicted route.

Rwy 15L: Requires a minimum climb gradient of 390 ft/NM to 3000. Depart rwy 15L, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to ALKUT (or as assigned) then proceed via depicted route.

Rwy 15R: Requires a minimum climb gradient of 380 ft/NM to 3000. Depart rwy 15R, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to ALKUT (or as assigned) then proceed via depicted route.

Rwy 23: Depart rwy 23, climb hdg 237° to 1100. Climbing RIGHT turn hdg 245° or as assigned. Expect radar vectors to SAVUR (or as assigned) then proceed via depicted route.

Rwys 24L & 24R: Depart rwy 24L/R, climb hdg 237° to 1000. Climbing LEFT turn hdg 235° or as assigned. Expect radar vectors to SAVUR (or as assigned) then proceed via depicted route.

Rwy 33L: Requires a minimum climb gradient of 250 ft/NM to 900. Depart rwy 33L, climb hdg 327° to 1100. Climbing RIGHT turn hdg 345° or as assigned. Expect radar vectors to VIVET (or as assigned) then proceed via depicted route.

Rwy 33R: Depart rwy 33R, climb hdg 327° to 2100. Climbing RIGHT turn hdg 340° or as assigned. Expect radar vectors to VIVET (or as assigned) then proceed via depicted route.

Communication Failure

On recognition of failure 20 minutes or less after take-off and in IFR weather conditions proceed as follows:

1. Select transponder code 7600;
2. Beyond 10 NM from CYYZ proceed directly on course;
3. Do not climb above last assigned altitude for 5 minutes after recognition of failure, then;
4. Climb to flight planned altitude.

DEPARTURE CLimb RATE V/V (FPM)

<table>
<thead>
<tr>
<th>GROUND SPEED</th>
<th>90</th>
<th>120</th>
<th>140</th>
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</tbody>
</table>

MIGLO TRANSITION: (DEDKI4.MIGLO)
OLABA TRANSITION: (DEDKI4.OLABA)
RAKAM TRANSITION: (DEDKI4.RAKAM)
TULEG TRANSITION: (DEDKI4.TULEG)
DEDKI FOUR DEP (DEDKI4.) DEPARTURE ROUTES

CYYZ

DEP – 128.8 127.57

TWR – 118.35 118.7

Radar Required
Rwys 05, 06L, 06R, 23, 24L, 24R
Jet act only

For use by GNSS or D/DI equipped acft. Acft with selectable CDI must be set to 1 NM sensitivity. Acft without selectable CDI must use flight director.

Caution: Rwys 05, 06L, 06R, 23, 24L, 24R departures: Simultaneous parallel departures in use.

DEDKI FOUR DEP (DEDKI4.) DEPARTURE ROUTES

CYYZ

EFF 27 APR 17

Canada Air Pilot

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019
Radar Required
Jet act only

For use by GNSS or O/DI equipped act. Acft with selectable CDI must be set to 1 NM sensitivity. Acft without selectable CDI must use flight director.

Aircraft flight planned FL250 or above advise ATC if unable to cross SANIN at or above FL250.
Departure Route Description

Unless otherwise assigned by ATC:

All rwys: Maintain 3000. Aircraft assigned a turn at takeoff; commence turn at 1100.

Rwy 05: Requires a minimum climb gradient of 360 ft/NM to 2700. Depart rwy 05, climb hdg 057° to 1000. Climbing LEFT turn hdg 047° or as assigned. Expect radar vectors to PERLO (or as assigned) then proceed via depicted route.

Rwy 06L: Requires a minimum climb gradient of 400 ft/NM to 2700. Depart rwy 06L, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to PERLO (or as assigned) then proceed via depicted route.

Rwy 06R: Requires a minimum climb gradient of 390 ft/NM to 2700. Depart rwy 06R, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to PERLO (or as assigned) then proceed via depicted route.

Rwy 15L: Requires a minimum climb gradient of 390 ft/NM to 3000. Depart rwy 15L, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to DUSOM (or as assigned) then proceed via depicted route.

Rwy 15R: Requires a minimum climb gradient of 380 ft/NM to 3000. Depart rwy 15R, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to DUSOM (or as assigned) then proceed via depicted route.

Rwy 23: Depart rwy 23, climb hdg 237° to 1100. Climbing RIGHT turn hdg 245° or as assigned. Expect radar vectors to SAVUR (or as assigned) then proceed via depicted route.

Rwys 24L & 24R: Depart rwy 24L/R, climb hdg 237° to 1000. Climbing LEFT turn hdg 235° or as assigned. Expect radar vectors to SAVUR (or as assigned) then proceed via depicted route.

Rwy 33L: Requires a minimum climb gradient of 250 ft/NM to 900. Depart rwy 33L, climb hdg 327° to 1100. Climbing RIGHT turn hdg 345° or as assigned. Expect radar vectors to SERPI (or as assigned) then proceed via depicted route.

Rwy 33R: Depart rwy 33R, climb hdg 327° to 2100. Climbing RIGHT turn hdg 340° or as assigned. Expect radar vectors to SERPI (or as assigned) then proceed via depicted route.

Communication Failure

On recognition of failure 20 minutes or less after take-off and in IFR weather conditions proceed as follows:

1. Select transponder code 7600;
2. Beyond 10 NM from CYYZ proceed directly on course;
3. Do not climb above last assigned altitude for 5 minutes after recognition of failure, then;
4. Climb to flight planned altitude.

PHILIPSBURG TRANSITION: (DUSOM2.PSB)
Radar required.

Rwys 05, 06L, 06R, 23, 24L, 24R

Non jet act only

For use by GNSS equipped act. GNSS act with selectable CDI must be set to 1 NM sensitivity. Act without selectable CDI must use flight director.

**CAUTION:** Rwys 05, 06L, 06R, 23, 24L, 24R departures: Simultaneous parallel departures in use.

**TWR – 118.35 118.7**

**DEP – 128.8 127.57**

**DUSOM TWO DEP (DUSOM2) DEPARTURE ROUTES**

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019

Canada Air Pilot
DUSOM TWO DEP (DUSOM2) DEPARTURE ROUTES

TWR - 118.35 118.7
DEP - 128.8 127.57

Radar required

Rwys 15L, 15R, 33L, 33R

Non jet act only

For use by GNSS equipped act. GNSS act with selectable CDI must be set to 1 NM sensitivity. Act without selectable CDI must use flight director.

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019

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Departure Route Description

Unless otherwise assigned by ATC:

All rwys: Maintain 3000. Aircraft assigned a turn at takeoff; commence turn at 1100.

Rwy 05: Requires a minimum climb gradient of 360 ft/NM to 2700. Depart rwy 05, climb hdg 057° to 1000. Climbing LEFT turn hdg 047° or as assigned. Expect radar vectors to EBKIN (or as assigned) then proceed via depicted route.

Rwy 06L: Requires a minimum climb gradient of 400 ft/NM to 2700. Depart rwy 06L, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to EBKIN (or as assigned) then proceed via depicted route.

Rwy 06R: Requires a minimum climb gradient of 390 ft/NM to 2700. Depart rwy 06R, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to EBKIN (or as assigned) then proceed via depicted route.

Rwy 15L: Requires a minimum climb gradient of 390 ft/NM to 3000. Depart rwy 15L, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to ETLER (or as assigned) then proceed via depicted route.

Rwy 15R: Requires a minimum climb gradient of 380 ft/NM to 3000. Depart rwy 15R, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to ETLER (or as assigned) then proceed via depicted route.

Rwy 23: Depart rwy 23, climb hdg 237° to 1100. Climbing RIGHT turn hdg 245° or as assigned. Expect radar vectors to MATES (or as assigned) then proceed via depicted route.

Rwys 24L & 24R: Depart rwy 24L/R, climb hdg 237° to 1000. Climbing LEFT turn hdg 235° or as assigned. Expect radar vectors to MATES (or as assigned) then proceed via depicted route.

Rwy 33L: Requires a minimum climb gradient of 250 ft/NM to 900. Depart rwy 33L, climb hdg 327° to 1100. Climbing RIGHT turn hdg 345° or as assigned. Expect radar vectors to EBKIN (or as assigned) then proceed via depicted route.

Rwy 33R: Depart rwy 33R, climb hdg 327° to 2100. Climbing RIGHT turn hdg 340° or as assigned. Expect radar vectors to EBKIN (or as assigned) then proceed via depicted route.

**Communication Failure**

On recognition of failure 20 minutes or less after take-off and in IFR weather conditions proceed as follows:

1. Select transponder code 7600;
2. Beyond 10 NM from CYYZ proceed directly on course;
3. Do not climb above last assigned altitude for 5 minutes after recognition of failure, then;
4. Climb to flight planned altitude.

**SILVU TRANSITION: (EBKIN3.SILVU)**
EBKIN THREE DEP
(EBKIN3) DEPARTURE ROUTES

CYYZ-SID-8B

Radar Required

Rwys 05, 06L, 06R, 23, 24L, 24R

Non jet act only.

For use by GNSS equipped acft. GNSS actf with selectable CDI must be set to 1 NM sensitivity. Acft without selectable CDI must use flight director.

Caution: Rwys 05, 06L, 06R, 23, 24L, 24R departures: Simultaneous parallel departures in use.

TWR – 118.35 118.7

DEP – 128.8 127.57

EBKIN

N44 05.22

W79 48.90

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EBKIN THREE DEP (EBKIN3) DEPARTURE ROUTES

Radar Required

Rwys 15L, 15R, 33L, 33R

Non jet act only.

For use by GNSS equipped act. GNSS act with selectable CDI must be set to 1 NM sensitivity.
Act without selectable CDI must use flight director.

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Radar Required
Non jet act only.

For use by GNSS equipped acts. GNSS act with selectable CDI must be set to 1 NM sensitivity. Act without selectable CDI must use flight director.

CYYZ-SID-8D
SID (RNAV) TORONTO/LESTER B. PEARSON INTL, ON
EBKIN THREE DEP
EBKIN THREE DEP
(NM)

TWR - 118.35 118.7
DEP - 128.8 127.57

EFF 27 APR 17
EFF 30 APR 15

Canada Air Pilot
Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019
Departure Route Description

Unless otherwise assigned by ATC:

All rwys: Maintain 5000.

Rwy 05: Requires a minimum climb gradient of 360 ft/NM to 2700. Depart rwy 05, climb hdg 057° to 1000. Climbing LEFT turn hdg 047° or as assigned. Expect radar vectors to KEDSI (or as assigned) then proceed via depicted route.

Rwy 06L: Requires a minimum climb gradient of 400 ft/NM to 2700. Depart rwy 06L, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to KEDSI (or as assigned) then proceed via depicted route.

Rwy 06R: Requires a minimum climb gradient of 390 ft/NM to 2700. Depart rwy 06R, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to KEDSI (or as assigned) then proceed via depicted route.

Rwy 15L: Requires a minimum climb gradient of 390 ft/NM to 3000. Depart rwy 15L, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to BOVAL (or as assigned) then proceed via depicted route.

Rwy 15R: Requires a minimum climb gradient of 380 ft/NM to 3000. Depart rwy 15R, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to BOVAL (or as assigned) then proceed via depicted route.

Rwy 23: Depart rwy 23, climb hdg 237° to 1100. Climbing RIGHT turn hdg 245° or as assigned. Expect radar vectors to TILAM (or as assigned) then proceed via depicted route.

Rwys 24L & 24R: Depart rwy 24L/R, climb hdg 237° to 1000. Climbing LEFT turn hdg 235° or as assigned. Expect radar vectors to TILAM (or as assigned) then proceed via depicted route.

Rwy 33L: Requires a minimum climb gradient of 250 ft/NM to 900. Depart rwy 33L, climb hdg 327° to 1100. Climbing RIGHT turn hdg 345° or as assigned. Expect radar vectors to TETAD (or as assigned) then proceed via depicted route.

Rwy 33R: Depart rwy 33R, climb hdg 327° to 2100. Climbing RIGHT turn hdg 340° or as assigned. Expect radar vectors to TETAD (or as assigned) then proceed via depicted route.

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<th>GROUND SPEED</th>
<th>90</th>
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SLLAP TRANSITION: (GOPUP3.SLLAP)
HOCKE TRANSITION: (GOPUP3.HOCKE)

Communication Failure

On recognition of failure 20 minutes or less after take-off and in IFR weather conditions proceed as follows:

1. Select transponder code 7600;
2. Beyond 10 NM from CYYZ proceed directly on course;
3. Do not climb above last assigned altitude for 5 minutes after recognition of failure, then;
4. Climb to flight planned altitude.
**SID (RNAV) TORONTO/LESTER B. PEARSON INTL, ON**

**GOPUP THREE DEP (GOPUP3) DEPARTURE ROUTES**

**CYYZ-SID-9B**

- **DEP –** 128.8 127.57
- **TWR –** 118.35 118.7

**Radar Required**

Rwys 05, 06L, 06R, 23, 24L, 24R

Jet act only

For use by GNSS or D/DI equipped act. Acft with selectable CDI must be set to 1 NM sensitivity. Acft without selectable CDI must use flight director.

**Caution:** Rwys 05, 06L, 06R, 23, 24L, 24R departures: Simultaneous parallel departures in use.

**Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019**
Radar Required
Rwys 15L, 15R, 33L, 33R
Jet acft only
For use by GNSS or D/DI equipped acft. Acft with selectable CDI must be set to 1 NM sensitivity. Acft without selectable CDI must use flight director.

See following page(s) for transition routes

TULEK
N43 43.98
W80 17.78

GOPUP THREE DEP
(GOPUP3) DEPARTURE ROUTES

TWR – 118.35 118.7
DEP – 128.8 127.57

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019

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SID (RNAV) TORONTO/LESTER B. PEARSON INTL, ON
GOPUP THREE DEP (GOPUP3) TRANSITION ROUTES

DEP – 128.8 127.57
TWR – 118.35 118.7

- Radar Required
Jet actt only
For use by GNSS or D/D/I equipped actt. Actt with selectable CDI must be set to 1 NM sensitivity. Actt without selectable CDI must use flight director.

EFF 19 JUL 18
EFF 27 APR 17

Canada Air Pilot
Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019

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Departure Route Description

Unless otherwise assigned by ATC:

All rwy$s$: Maintain 5000.

Rwy 05: Requires a minimum climb gradient of 360 ft/NM to 2700. Depart rwy 05, climb hdg 057° to 1000. Climbing LEFT turn hdg 047° or as assigned. Expect radar vectors to GOTIM (or as assigned) then proceed via depicted route.

Rwy 06L: Requires a minimum climb gradient of 400 ft/NM to 2700. Depart rwy 06L, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to GOTIM (or as assigned) then proceed via depicted route.

Rwy 06R: Requires a minimum climb gradient of 390 ft/NM to 2700. Depart rwy 06R, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to GOTIM (or as assigned) then proceed via depicted route.

Rwy 15L: Requires a minimum climb gradient of 390 ft/NM to 3000. Depart rwy 15L, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to BORUX (or as assigned) then proceed via depicted route.

Rwy 15R: Requires a minimum climb gradient of 380 ft/NM to 3000. Depart rwy 15R, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to BORUX (or as assigned) then proceed via depicted route.

Rwy 23: Depart rwy 23, climb hdg 237° to 1100. Climbing RIGHT turn hdg 245° or as assigned. Expect radar vectors to BISTI (or as assigned) then proceed via depicted route.

Rwy 24L & 24R: Depart rwy 24L/R, climb hdg 237° to 1000. Climbing LEFT turn hdg 235° or as assigned. Expect radar vectors to BISTI (or as assigned) then proceed via depicted route.

Rwy 33L: Requires a minimum climb gradient of 250 ft/NM to 900. Depart rwy 33L, climb hdg 327° to 1100. Climbing RIGHT turn hdg 345° or as assigned. Expect radar vectors to IKLEN (or as assigned) then proceed via depicted route.

Rwy 33R: Depart rwy 33R, climb hdg 327° to 2100. Climbing RIGHT turn hdg 340° or as assigned. Expect radar vectors to IKLEN (or as assigned) then proceed via depicted route.

<table>
<thead>
<tr>
<th>DEPARTURE CLimb RATE V/V (FPM)</th>
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</thead>
<tbody>
<tr>
<td>GROUND SPEED</td>
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<tr>
<td>390 FT/NM</td>
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<td>400 FT/NM</td>
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</table>

TONNY TRANSITION: (IKLEN2.TONNY)

Communication Failure

On recognition of failure 20 minutes or less after take-off and in IFR weather conditions proceed as follows:

1. Select transponder code 7600;
2. Beyond 10 NM from CYYZ proceed directly on course;
3. Do not climb above last assigned altitude for 5 minutes after recognition of failure, then;
4. Climb to flight planned altitude.
Radar required

Rwys 05, 06L, 06R, 23, 24L, 24R
Jet act only

For use by GNSS or D/D equipped act.
Act with selectable CDI must be set to
1 NM sensitivity. Act without selectable
CDI must use flight director.

Caution: Rwy 05, 06L, 06R, 23, 24L, 24R departures:
Simultaneous parallel departures in use.

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019
CYYZ-SID-10C

SID (RNAV) TORONTO/LESTER B. PEARSON INTL, ON

IKLEN TWO DEP (IKLEN2)

Radar required
Rwys 15L, 15R, 33L, 33R
Jet act only
For use by GNSS or D/D/I equipped acft.
Aircraft with selectable CDI must be set to 1 NM sensitivity. Aircraft without selectable CDI must use flight director.

TWR – 118.35 118.7
DEP – 128.8 127.57

CYYZ

Eff 27 Apr 17

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019

Canada Air Pilot

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Departure Route Description

Unless otherwise assigned by ATC:

All rwys: Maintain 5000.

Rwy 05: Requires a minimum climb gradient of 360 ft/NM to 2700. Depart rwy 05, climb hdg 057° to 1000. Climbing LEFT turn hdg 047° or as assigned. Expect radar vectors to MOBEL (or as assigned) then proceed via depicted route.

Rwy 06L: Requires a minimum climb gradient of 400 ft/NM to 2700. Depart rwy 06L, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to MOBEL (or as assigned) then proceed via depicted route.

Rwy 06R: Requires a minimum climb gradient of 390 ft/NM to 2700. Depart rwy 06R, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to MOBEL (or as assigned) then proceed via depicted route.

Rwy 15L: Requires a minimum climb gradient of 390 ft/NM to 3000. Depart rwy 15L, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to RIKEM (or as assigned) then proceed via depicted route.

Rwy 15R: Requires a minimum climb gradient of 380 ft/NM to 3000. Depart rwy 15R, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to RIKEM (or as assigned) then proceed via depicted route.

Rwy 23: Depart rwy 23, climb hdg 237° to 1100. Climbing RIGHT turn hdg 245° or as assigned. Expect radar vectors to SAVUR (or as assigned) then proceed via depicted route.

Rwys 24L & 24R: Depart rwy 24L/R, climb hdg 237° to 1000. Climbing LEFT turn hdg 235° or as assigned. Expect radar vectors to SAVUR (or as assigned) then proceed via depicted route.

Rwy 33L: Requires a minimum climb gradient of 250 ft/NM to 900. Depart rwy 33L, climb hdg 327° to 1100. Climbing RIGHT turn hdg 345° or as assigned. Expect radar vectors to VIVET (or as assigned) then proceed via depicted route.

Rwy 33R: Depart rwy 33R, climb hdg 327° to 2100. Climbing RIGHT turn hdg 340° or as assigned. Expect radar vectors to VIVET (or as assigned) then proceed via depicted route.

Communication Failure

On recognition of failure 20 minutes or less after take-off and in IFR weather conditions proceed as follows:

1. Select transponder code 7600;
2. Beyond 10 NM from CYYZ proceed directly on course;
3. Do not climb above last assigned altitude for 5 minutes after recognition of failure, then;
4. Climb to flight planned altitude.

DEPARTURE CLIMB RATE V/V (FPM)

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WOZEE TRANSITION: (KEPTA2.WOZEE)
BMPAH TRANSITION: (KEPTA2.BMPAH)
SID (RNAV) TORONTO/LESTER B. PEARSON INTL, ON
KEPTA TWO DEP (KEPTA2.) DEPARTURE ROUTES

DEP – 128.8 127.57
TWR – 118.35 118.7

CYYZ

KEPTA TWO DEP (KEPTA2.) DEPARTURE ROUTES

CAUTION:
- Rwys 05, 06L, 06R, 23, 24L, 24R departures: Simultaneous parallel departures in use.
- For use by GNSS or D/DI equipped acft. Acft with selectable CDI must be set to 1 NM sensitivity. Acft without selectable CDI must use flight director.

Effective 27 APR 17

Canada Air Pilot

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019

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SID (RNAV) TORONTO/LESTER B. PEARSON INTL, ON
KEPTA TWO DEP
(KEPTA2) TRANSITION ROUTES

dep –
128.8 127.57

twr –
118.35 118.7

Radar Required

Jet act only

For use by GNSS or D/D1 equipped act. Act with selectable CDI must be set to 1 NM sensitivity. Act without selectable CDI must use flight director.

See previous page(s) for departure routes

RIKEM
N43 26.52
W79 07.80

KEPTA
N43 19.42
W78 45.00

BMPAH
N43 11.33
W78 19.44

WOZEE
N42 56.03
W78 44.33

9000

BMPAH TRANSITION (KEPTA2.BMPAH)
WOZEE TRANSITION (KEPTA2.WOZEE)

Source of Canadian CMI: Aerodrome Data: © 2019 NAV CANADA All rights reserved

Canada Air Pilot

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019

CYYZ SID 11D
CYYZ SID 11D

TORONTO/LESTER B. PEARSON INTL ON
CYYZ
Departure Route Description

Unless otherwise assigned by ATC:

**All rwys:** Maintain 5000.

**Rwy 05:** Requires a minimum climb gradient of 360 ft/NM to 2700. Depart rwy 05, climb hdg 057° to 1000. Climbing LEFT turn hdg 047° or as assigned. Expect radar vectors to GOTIM (or as assigned) then proceed via depicted route.

**Rwy 06L:** Requires a minimum climb gradient of 400 ft/NM to 2700. Depart rwy 06L, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to GOTIM (or as assigned) then proceed via depicted route.

**Rwy 06R:** Requires a minimum climb gradient of 390 ft/NM to 2700. Depart rwy 06R, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to GOTIM (or as assigned) then proceed via depicted route.

**Rwy 15L:** Requires a minimum climb gradient of 390 ft/NM to 3000. Depart rwy 15L, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to BORUX (or as assigned) then proceed via depicted route.

**Rwy 15R:** Requires a minimum climb gradient of 380 ft/NM to 3000. Depart rwy 15R, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to BORUX (or as assigned) then proceed via depicted route.

**Rwy 23:** Depart rwy 23, climb hdg 237° to 1100. Climbing RIGHT turn hdg 245° or as assigned. Expect radar vectors to BISTI (or as assigned) then proceed via depicted route.

**Rwys 24L & 24R:** Depart rwy 24L/R, climb hdg 237° to 1000. Climbing LEFT turn hdg 235° or as assigned. Expect radar vectors to BISTI (or as assigned) then proceed via depicted route.

**Rwy 33L:** Requires a minimum climb gradient of 250 ft/NM to 900. Depart rwy 33L, climb hdg 327° to 1100. Climbing RIGHT turn hdg 345° or as assigned. Expect radar vectors to EBKIN (or as assigned) then proceed via depicted route.

**Rwy 33R:** Depart rwy 33R, climb hdg 327° to 2100. Climbing RIGHT turn hdg 340° or as assigned. Expect radar vectors to EBKIN (or as assigned) then proceed via depicted route.

### DEPARTURE CLIMB RATE V/V (FPM)

<table>
<thead>
<tr>
<th>GROUND SPEED</th>
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<th>140</th>
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SILVU TRANSITION: (KISEP3.SILVU)

### Communication Failure

On recognition of failure 20 minutes or less after take-off and in IFR weather conditions proceed as follows:

1. Select transponder code 7600;
2. Beyond 10 NM from CYYZ proceed directly on course;
3. Do not climb above last assigned altitude for 5 minutes after recognition of failure, then;
4. Climb to flight planned altitude.
KISEP THREE DEP (KISEP3) DEPARTURE ROUTES

CYYZ-SID-12C

SID (RNAV) TORONTO/LESTER B. PEARSON INTL, ON

KISEP THREE DEP
(KISEP3) DEPARTURE ROUTES

CYYZ-SID-12C

Canada Air Pilot
Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019

Radar Required
Rwys 15L, 15R, 33L, 33R
Jet acft only.

For use by GNSS or D/DI equipped acft.
Acft with selectable CDI must be set to 1 NM sensitivity.
Acft without selectable CDI must use flight director.
Departure Route Description

Unless otherwise assigned by ATC:

- **All rwys:** Maintain 3000. Aircraft assigned a turn at takeoff; commence turn at 1100.
- **Rwy 05:** Requires a minimum climb gradient of 360 ft/NM to 2700. Depart rwy 05, climb hdg 057° to 1000. Climbing LEFT turn hdg 047° or as assigned. Expect radar vectors to SEDOG (or as assigned) then proceed via depicted route.
- **Rwy 06L:** Requires a minimum climb gradient of 400 ft/NM to 2700. Depart rwy 06L, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to SEDOG (or as assigned) then proceed via depicted route.
- **Rwy 06R:** Requires a minimum climb gradient of 390 ft/NM to 2700. Depart rwy 06R, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to SEDOG (or as assigned) then proceed via depicted route.
- **Rwy 15L:** Requires a minimum climb gradient of 390 ft/NM to 3000. Depart rwy 15L, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to ETLER (or as assigned) then proceed via depicted route.
- **Rwy 15R:** Requires a minimum climb gradient of 380 ft/NM to 3000. Depart rwy 15R, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to ETLER (or as assigned) then proceed via depicted route.
- **Rwy 23:** Depart rwy 23, climb hdg 237° to 1100. Climbing RIGHT turn hdg 245° or as assigned. Expect radar vectors to MATES (or as assigned) then proceed via depicted route.
- **Rwys 24L & 24R:** Depart rwy 24L/R, climb hdg 237° to 1000. Climbing LEFT turn hdg 235° or as assigned. Expect radar vectors to MATES (or as assigned) then proceed via depicted route.
- **Rwy 33L:** Requires a minimum climb gradient of 250 ft/NM to 900. Depart rwy 33L, climb hdg 327° to 1100. Climbing RIGHT turn hdg 345° or as assigned. Expect radar vectors to SEDOG (or as assigned) then proceed via depicted route.
- **Rwy 33R:** Depart rwy 33R, climb hdg 327° to 2100. Climbing RIGHT turn hdg 340° or as assigned. Expect radar vectors to SEDOG (or as assigned) then proceed via depicted route.

**DEPARTURE CLimb RATE V/V (FPM)**

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</table>

**Tangi Transition:**

(LAKES3.TANGI)

Communication Failure

On recognition of failure 20 minutes or less after take-off and in IFR weather conditions proceed as follows:

1. Select transponder code 7600;
2. Beyond 10 NM from CYYZ proceed directly on course;
3. Do not climb above last assigned altitude for 5 minutes after recognition of failure, then;
4. Climb to flight planned altitude.

**Canada Air Pilot**

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019
CYYZ-SID-13B

SID (RNAV) TORONTO/LESTER B. PEARSON INTL, ON
LAKES THREE DEP (LAKES3)

DEP – 128.8 127.57
TWR – 118.35 118.7

Radar Required
Rwys 05, 06L, 06R, 23, 24L, 24R
Non jet act only.

For use by GNSS equipped acft. GNSS acft with selectable CDI must be set to 1 NM sensitivity. Acft without selectable CDI must use flight director.

Caution: Rwys 05, 06L, 06R, 23, 24L, 24R departures: Simultaneous parallel departures in use.

EFFECTIVE 27 APR 17

Canada Air Pilot
Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019
CYYZ-SID-13C

LAKES THREE DEP (LAKES3.)

DEP – 128.8 127.57

TWR – 118.35 118.7

LAKES THREE DEP (LAKES3.)

EFF 27 APR 17

Canada Air Pilot

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019
Departure Route Description

Unless otherwise assigned by ATC

All rwys: Maintain 3000. Aircraft assigned a turn at takeoff; commence turn at 1100.

Rwy 05: Requires a minimum climb gradient of 360 ft/NM to 2700. Depart rwy 05, climb hdg 057° to 1000. Climbing LEFT turn hdg 047° or as assigned. Expect radar vectors to IKLEN (or as assigned) then proceed via depicted route.

Rwy 06L: Requires a minimum climb gradient of 400 ft/NM to 2700. Depart rwy 06L, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to IKLEN (or as assigned) then proceed via depicted route.

Rwy 06R: Requires a minimum climb gradient of 390 ft/NM to 2700. Depart rwy 06R, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to IKLEN (or as assigned) then proceed via depicted route.

Rwy 15L: Requires a minimum climb gradient of 390 ft/NM to 3000. Depart rwy 15L, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to ETLER (or as assigned) then proceed via depicted route.

Rwy 15R: Requires a minimum climb gradient of 380 ft/NM to 3000. Depart rwy 15R, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to ETLER (or as assigned) then proceed via depicted route.

Rwy 23: Depart rwy 23, climb hdg 237° to 1100. Climbing RIGHT turn hdg 245° or as assigned. Expect radar vectors to MATES (or as assigned) then proceed via depicted route.

Rwys 24L & 24R: Depart rwy 24L/R, climb hdg 237° to 1000. Climbing LEFT turn hdg 235° or as assigned. Expect radar vectors to MATES (or as assigned) then proceed via depicted route.

Rwy 33L: Requires a minimum climb gradient of 250 ft/NM to 900. Depart rwy 33L, climb hdg 327° to 1100. Climbing RIGHT turn hdg 345° or as assigned. Expect radar vectors to IKLEN (or as assigned) then proceed via depicted route.

Rwy 33R: Depart rwy 33R, climb hdg 327° to 2100. Climbing RIGHT turn hdg 340° or as assigned. Expect radar vectors to IKLEN (or as assigned) then proceed via depicted route.

Communication Failure

On recognition of failure 20 minutes or less after take-off and in IFR weather conditions proceed as follows:

1. Select transponder code 7600;
2. Beyond 10 NM from CYYZ proceed directly on course;
3. Do not climb above last assigned altitude for 5 minutes after recognition of failure, then;
4. Climb to flight planned altitude.

DEPARTURE CLIMB RATE V/V (FPM)

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TONNY TRANSITION: (MATES5.TONNY)
CYYZ-SID-15A

SID (RNAV) MAVAN TWO DEP (MAVAN2.)

MAVAN TWO DEP (MAVAN2.)

源: 加拿大民用航空数据 © 2019 NAV CANADA All rights reserved

CYYZ-SID-15A

TORONTO/LESTER B. PEARSON INTL, ON

CYYZ

Departure Route Description

Unless otherwise assigned by ATC:

All rwys: Maintain 3000. Aircraft assigned a turn at takeoff; commence turn at 1100.

Rwy 05: Requires a minimum climb gradient of 360 ft/NM to 2700. Depart rwy 05, climb hdg 057° to 1000. Climbing LEFT turn hdg 047° or as assigned. Expect radar vectors to PERLO (or as assigned) then proceed via depicted route.

Rwy 06L: Requires a minimum climb gradient of 400 ft/NM to 2700. Depart rwy 06L, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to PERLO (or as assigned) then proceed via depicted route.

Rwy 06R: Requires a minimum climb gradient of 390 ft/NM to 2700. Depart rwy 06R, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to PERLO (or as assigned) then proceed via depicted route.

Rwy 15L: Requires a minimum climb gradient of 390 ft/NM to 3000. Depart rwy 15L, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to RIKEM (or as assigned) then proceed via depicted route.

Rwy 15R: Requires a minimum climb gradient of 380 ft/NM to 3000. Depart rwy 15R, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to RIKEM (or as assigned) then proceed via depicted route.

Rwy 23: Depart rwy 23, climb hdg 237° to 1100. Climbing RIGHT turn hdg 245° or as assigned. Expect radar vectors to MAVAN (or as assigned) then proceed via depicted route.

Rwys 24L & 24R: Depart rwy 24L/R, climb hdg 237° to 1100. Climbing LEFT turn hdg 235° or as assigned. Expect radar vectors to MAVAN (or as assigned) then proceed via depicted route.

Rwy 33L: Requires a minimum climb gradient of 250 ft/NM to 900. Depart rwy 33L, climb hdg 327° to 1100. Climbing RIGHT turn hdg 345° or as assigned. Expect radar vectors to NUBAN (or as assigned) then proceed via depicted route.

Rwy 33R: Depart rwy 33R, climb hdg 327° to 2100. Climbing RIGHT turn hdg 340° or as assigned. Expect radar vectors to NUBAN (or as assigned) then proceed via depicted route.

DEPARTURE CLIMB RATE V/V (FPM)

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BMPAH TRANSITION: (MAVAN2.BMPAH)
WOZEE TRANSITION: (MAVAN2.WOZEE)

Communication Failure

On recognition of failure 20 minutes or less after take-off and in IFR weather conditions proceed as follows:

1. Select transponder code 7600;
2. Beyond 10 NM from CYYZ proceed directly on course;
3. Do not climb above last assigned altitude for 5 minutes after recognition of failure, then;
4. Climb to flight planned altitude.

MAVAN TWO DEP (MAVAN2.)

CYYZ

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Canada Air Pilot

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019
MAVAN TWO DEP (MAVAN2) TRANSITION ROUTES

CYYZ

DEP – 128.8  127.57

TWR – 118.35  118.7

Radar Required
Non jet acft only

For use by GNSS equipped acft. GNSS acft with selectable CDI must be set to 1 NM sensitivity. Acft without selectable CDI must use flight director.

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019

Source of Canadian Civil Aeronautical Data: © 2019 NAV CANADA All rights reserved
Departure Route Description

Unless otherwise assigned by ATC:

All rwys: Maintain 5000.

Rwy 05: Requires a minimum climb gradient of 360 ft/NM to 2700. Depart rwy 05, climb hdg 057° to 1000. Climbing LEFT turn hdg 047° or as assigned. Expect radar vectors to MOBEL (or as assigned) then proceed via depicted route.

Rwy 06L: Requires a minimum climb gradient of 400 ft/NM to 2700. Depart rwy 06L, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to MOBEL (or as assigned) then proceed via depicted route.

Rwy 06R: Requires a minimum climb gradient of 390 ft/NM to 2700. Depart rwy 06R, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to MOBEL (or as assigned) then proceed via depicted route.

Rwy 15L: Requires a minimum climb gradient of 390 ft/NM to 3000. Depart rwy 15L, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to MIXUT (or as assigned) then proceed via depicted route.

Rwy 15R: Requires a minimum climb gradient of 380 ft/NM to 3000. Depart rwy 15R, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to MIXUT (or as assigned) then proceed via depicted route.

Rwy 16C: Depart rwy 23, climb hdg 237° to 1100. Climbing RIGHT turn hdg 245° or as assigned. Expect radar vectors to MIXUT (or as assigned) then proceed via depicted route.

Rwy 33L: Requires a minimum climb gradient of 250 ft/NM to 900. Depart rwy 33L, climb hdg 327° to 1100. Climbing RIGHT turn hdg 345° or as assigned. Expect radar vectors to NUBAX (or as assigned) then proceed via depicted route.

Rwy 33R: Depart rwy 33R, climb hdg 327° to 2100. Climbing RIGHT turn hdg 340° or as assigned. Expect radar vectors to NUBAX (or as assigned) then proceed via depicted route.

DEPARTURE CLIMB RATE V/V (FPM)

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DERLO TRANSITION: (MIXUT6.DERLO)

GNTRY TRANSITION: (MIXUT6.GNTRY)

Communication Failure

On recognition of failure 20 minutes or less after take-off and in IFR weather conditions proceed as follows:

1. Select transponder code 7600;
2. Beyond 10 NM from CYYZ proceed directly on course;
3. Do not climb above last assigned altitude for 5 minutes after recognition of failure, then;
4. Climb to flight planned altitude.

MIXUT SIX DEP (MIXUT6.)

EFF 20 JUN 19
Radar Required
Rwys 05, 06L, 06R, 23, 24L, 24R
Jet actt only
For use by GNSS or D/D/I equipped actt. Acft with
selectable CDI must be set to 1 NM sensitivity. Acft
without selectable CDI must use flight director.
Caution: Rwys 05, 06L, 06R, 23, 24L, 24R departures:
Simultaneous parallel departures in use.

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019
CYYZ-SID-16C

SID (RNAV) TORONTO/LESTER B. PEARSON INTL, ON

MIXUT SIX DEP (MIXUT6.) DEPARTURE ROUTES

Canada Air Pilot

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019

TWR – 118.35 118.7

DEP – 128.8 127.57

Radar Required

Rwys 15L, 15R, 33L, 33R

Jet acft only

For use by GNSS or D/DI equipped acft. Acft with selectable CDI must be set to 1 NM sensitivity. Acft without selectable CDI must use flight director.

Guelph

Waterloo

Rockton

MIXUT N43 18.10 W80 06.52

NUBAX N43 42.70 W79 50.23

TANGU N43 33.60 W79 47.77

Burlington Executive

Billy Bishop Toronto City Airport

CYYZ-SID-16C

TORONTO/LESTER B. PEARSON INTL. ON

CYYZ
SID (RNAV) TORONTO/LESTER B. PEARSON INTL, ON

MIXUT SIX DEP
(MIXUT6) TRANSITION ROUTES

TWR – 118.35 118.7
DEP – 128.8 127.57

Radar Required
Jet actf only

For use by GNSS or D/D/I equipped actf. Acft with selectable CDI must be set to 1 NM sensitivity. Acft without selectable CDI must use flight director.

DEPLO
N43 03.98
W81 05.72

SEVBI
N43 07.97
W80 39.75

LETOR
N43 11.65
W80 15.13

NUGID
N42 45.82
W81 25.25

PEMBA
N42 52.42
W81 07.60

Tillsonburg

London

Highgate

Lucan

Melbourne

268°
(19)

263°
(15)

253°
(13)

253°
(43)

263°
(16)

EF 20 JUN 19

Canada Air Pilot

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019

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Departure Route Description

Unless otherwise assigned by ATC:

All rwys: Maintain 3000. Aircraft assigned a turn at takeoff; commence turn at 1100.

Rwy 05: Requires a minimum climb gradient of 360 ft/NM to 2700. Depart rwy 05, climb hdg 057° to 1000. Climbing LEFT turn hdg 047° or as assigned. Expect radar vectors to MEMPA (or as assigned) then proceed via depicted route.

Rwy 06L: Requires a minimum climb gradient of 400 ft/NM to 2700. Depart rwy 06L, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to MEMPA (or as assigned) then proceed via depicted route.

Rwy 06R: Requires a minimum climb gradient of 390 ft/NM to 2700. Depart rwy 06R, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to MEMPA (or as assigned) then proceed via depicted route.

Rwy 15L: Requires a minimum climb gradient of 390 ft/NM to 3000. Depart rwy 15L, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to IPSOT (or as assigned) then proceed via depicted route.

Rwy 15R: Requires a minimum climb gradient of 380 ft/NM to 3000. Depart rwy 15R, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to IPSOT (or as assigned) then proceed via depicted route.

Rwy 23: Depart rwy 23, climb hdg 237° to 1100. Climbing RIGHT turn hdg 245° or as assigned. Expect radar vectors to URSAL (or as assigned) then proceed via depicted route.

Rwys 24L & 24R: Depart rwy 24L/R, climb hdg 237° to 1000. Climbing LEFT turn hdg 235° or as assigned. Expect radar vectors to URSAL (or as assigned) then proceed via depicted route.

Rwy 33L: Requires a minimum climb gradient of 250 ft/NM to 900. Depart rwy 33L, climb hdg 327° to 1100. Climbing RIGHT turn hdg 345° or as assigned. Expect radar vectors to URSAL (or as assigned) then proceed via depicted route.

Rwy 33R: Depart rwy 33R, climb hdg 327° to 2100. Climbing RIGHT turn hdg 340° or as assigned. Expect radar vectors to URSAL (or as assigned) then proceed via depicted route.

DEPARTURE CLIMB RATE V/V (FPM)

<table>
<thead>
<tr>
<th>GROUND SPEED</th>
<th>90</th>
<th>120</th>
<th>140</th>
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<td>1340</td>
<td>1670</td>
<td>2000</td>
</tr>
</tbody>
</table>

KASED TRANSITION: (NOSIK3.KASED)
ZOHAN TRANSITION: (NOSIK3.ZOHAN)

Communication Failure

On recognition of failure 20 minutes or less after take-off and in IFR weather conditions proceed as follows:

1. Select transponder code 7600;
2. Beyond 10 NM from CYYZ proceed directly on course;
3. Do not climb above last assigned altitude for 5 minutes after recognition of failure, then;
4. Climb to flight planned altitude.
CYYZ-SID-17B
NOSIK THREE DEP (NOSIK3.) DEPARTURE ROUTES
CYYZ

Radar Required

Non jet act only.

For use by GNSS equipped aircraft, GNSS alt.

with selectable CDI must be set to NW, or flight director.

Act without selectable CDI must be set to NW.

NOSIK THREE DEP (NOSIK3.) DEPARTURE ROUTES

CYYZ

Caution:
RWY 05L, 06R, 23L, 24R

Simultaneous departures in use.

NOSIK THREE DEP (NOSIK3.) DEPARTURE ROUTES

CYYZ

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019

Canada Air Pilot

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**SID (RNAV) TORONTO/LESTER B. PEARSON INTL, ON**

**NOSIK THREE DEP (NOSIK) DEPARTURE ROUTES**

**URSAL**
N43 50.22  
W80 11.17

Radar Required
Rwys 15L, 15R, 33L, 33R

Non jet actf only.

For use by GNSS equipped actf. GNSS actf with selectable CDI must be set to 1 NM sensitivity. Actf without selectable CDI must use flight director.

**Effective 27 APR 17**

**Canada Air Pilot**

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019
NOSIK THREE DEP (NOSIK3) TRANSITION ROUTES

CYYZ-SID-17D
SID (RNAV) TORONTO/LESTER B. PEARSON INTL, ON

NOSIK THREE DEP
NOSIK3.\n
DEP – 128.8 127.57
TWR – 118.35 118.7

For use by GNSS equipped act. GNSS act. with selectable CDI must be set to 1 NM sensitivity. Act. without selectable CDI must use flight director.

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019

Kased.
N44 28.32
W82 11.92

Zohan.
N43 55.95
W84 23.15

Kased Transition (NOSIK3.Kased)
Zohan Transition (NOSIK3.Zohan)

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Departure Route Description

Unless otherwise assigned by ATC:

**All rwys:** Maintain **3000.** Aircraft assigned a turn at takeoff; commence turn at **1100.**

**Rwy 05:** Requires a minimum climb gradient of **360 ft/NM to 2700.** Depart rwy 05, climb hdg **057° to 1000.** Climbing LEFT turn hdg **047° or as assigned.** Expect radar vectors to MEMPA (or as assigned) then proceed via depicted route.

**Rwy 06L:** Requires a minimum climb gradient of **400 ft/NM to 2700.** Depart rwy 06L, climb hdg **057° to 1000.** Continue climb hdg **057° or as assigned.** Expect radar vectors to MEMPA (or as assigned) then proceed via depicted route.

**Rwy 06R:** Requires a minimum climb gradient of **390 ft/NM to 2700.** Depart rwy 06R, climb hdg **057° to 1000.** Continue climb hdg **057° or as assigned.** Expect radar vectors to MEMPA (or as assigned) then proceed via depicted route.

**Rwy 15L:** Requires a minimum climb gradient of **390 ft/NM to 3000.** Depart rwy 15L, climb hdg **147° to 1000.** Continue climb hdg **147° or as assigned.** Expect radar vectors to IPSOT (or as assigned) then proceed via depicted route.

**Rwy 15R:** Requires a minimum climb gradient of **380 ft/NM to 3000.** Depart rwy 15R, climb hdg **147° to 1000.** Continue climb hdg **147° or as assigned.** Expect radar vectors to IPSOT (or as assigned) then proceed via depicted route.

**Rwy 23:** Depart rwy 23, climb hdg **237° to 1100.** Climbing RIGHT turn hdg **245° or as assigned.** Expect radar vectors to AVSEP (or as assigned) then proceed via depicted route.

**Rwys 24L & 24R:** Depart rwy 24L/R, climb hdg **237° to 1000.** Climbing LEFT turn hdg **235° or as assigned.** Expect radar vectors to AVSEP (or as assigned) then proceed via depicted route.

<table>
<thead>
<tr>
<th>DEPARTURE CLIMB RATE V/V (FPM)</th>
<th>GROUND SPEED</th>
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<td>600 FT/NM</td>
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**OTNIK TRANSITION:** (NUGOP4.OTNIK)

**VIGLO TRANSITION:** (NUGOP4.VIGLO)

Communication Failure

On recognition of failure 20 minutes or less after take-off and in IFR weather conditions proceed as follows:

1. Select transponder code 7600;
2. Beyond 10 NM from CYYZ proceed directly on course;
3. Do not climb above last assigned altitude for 5 minutes after recognition of failure, then;
4. Climb to flight planned altitude.
Non jet act only.

For use by GNSS-equipped act. GNSS act with selectable CDI must be set to 1 NM sensitivity. Act without selectable CDI must use flight director.

Simultaneous parallel departures in use.

Canada Air Pilot

effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019
SID (RNAV) TORONTO/LESTER B. PEARSON INTL, ON
NUGOP FOUR DEP (NUGOP4.) DEPARTURE ROUTES

CYYZ-SID-18C

DEP – 128.8 127.57
TWR – 118.35 118.7

Radar Required
Rwys 15L, 15R, 33L, 33R
Non jet acft only.

For use by GNSS equipped acft, GNSS acft with selectable CDI must be set to 1 NM sensitivity. Acft without selectable CDI must use flight director.

Canada Air Pilot
Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019

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Canada Air Pilot
Effective 0801Z 10 OCT 2019 to 0801Z 5 DEC 2019

Source of Canadian Civil Aeronautical Data: © 2019 NAV CANADA All rights reserved
**SID (RNAV) TORONTO/LESTER B. PEARSON INTL, ON**

**NUGOP FOUR DEP** (NUGOP4) TRANSITION ROUTES

**DEP –** 128.8 127.57

**TWR –** 118.35 118.7

Radar Required

For use by GNSS equipped aircraft. GNSS act with selectable CDI must be set to 1 NM sensitivity. Aircraft without selectable CDI must use flight director.

**PEPMA**
N45 00.53
W81 48.60

**GOPAK**
N45 50.25
W82 30.12

**NAKAL**
N46 06.57
W83 02.56

**OTNIK**
N46 24.18
W83 38.27

**VIGLO**
N45 23.80
W82 25.18

**NUGOP Transition (NUGOP4.OTNIK)**

**NUGOP**
N44 08.30
W80 29.25

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Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019

**EFF 15 AUG 19**

**EFF 27 APR 17**

**NOT TO SCALE**

Canada Air Pilot

See previous page(s) for departure routes
Departure Route Description

Unless otherwise assigned by ATC:

All rwys: Maintain **3000**. Aircraft assigned a turn at takeoff; commence turn at **1100**.

**Rwy 05:** Requires a minimum climb gradient of **360 ft/NM** to **2700**. Depart rwy 05, climb hdg **057°** to **1000**. Climbing LEFT turn hdg **047°** or as assigned. Expect radar vectors to PERLO (or as assigned) then proceed via depicted route.

**Rwy 06L:** Requires a minimum climb gradient of **400 ft/NM** to **2700**. Depart rwy 06L, climb hdg **057°** to **1000**. Continue climb hdg **057°** or as assigned. Expect radar vectors to PERLO (or as assigned) then proceed via depicted route.

**Rwy 06R:** Requires a minimum climb gradient of **390 ft/NM** to **2700**. Depart rwy 06R, climb hdg **057°** to **1000**. Continue climb hdg **057°** or as assigned. Expect radar vectors to PERLO (or as assigned) then proceed via depicted route.

**Rwy 06L:** Requires a minimum climb gradient of **390 ft/NM** to **3000**. Depart rwy 15L, climb hdg **147°** to **1000**. Continue climb hdg **147°** or as assigned. Expect radar vectors to OAKVL (or as assigned) then proceed via depicted route.

**Rwy 15L:** Requires a minimum climb gradient of **380 ft/NM** to **3000**. Depart rwy 15R, climb hdg **147°** to **1000**. Continue climb hdg **147°** or as assigned. Expect radar vectors to OAKVL (or as assigned) then proceed via depicted route.

**Rwy 15R:** Requires a minimum climb gradient of **390 ft/NM** to **3000**. Depart rwy 15L, climb hdg **237°** to **1100**. Climbing RIGHT turn hdg **245°** or as assigned. Expect radar vectors to SAVUR (or as assigned) then proceed via depicted route.

Rwys 24L & 24R: Depart rwy 24L/R, climb hdg **237°** to **1000**. Climbing LEFT turn hdg **235°** or as assigned. Expect radar vectors to SAVUR (or as assigned) then proceed via depicted route.

**Rwy 33L:** Requires a minimum climb gradient of **250 ft/NM** to **900**. Depart rwy 33L, climb hdg **327°** to **1100**. Climbing RIGHT turn hdg **345°** or as assigned. Expect radar vectors to SERPI (or as assigned) then proceed via depicted route.

**Rwy 33R:** Depart rwy 33R, climb hdg **327°** to **2100**. Climbing RIGHT turn hdg **340°** or as assigned. Expect radar vectors to SERPI (or as assigned) then proceed via depicted route.

**ERIE TRANSITION:** (OAKVL2.ERI)

**FOXEE TRANSITION:** (OAKVL2.FOXEE)

**AIRRA TRANSITION:** (OAKVL2.AIRRRA)

**Communication Failure**

On recognition of failure 20 minutes or less after take-off and in IFR weather conditions proceed as follows:

1. Select transponder code 7600;
2. Beyond 10 NM from CYYZ proceed directly on course;
3. Do not climb above last assigned altitude for 5 minutes after recognition of failure, then;
4. Climb to flight planned altitude.
Departure Route Description

Unless otherwise assigned by ATC:

**All rwys:** Maintain 3000. Aircraft assigned a turn at takeoff; commence turn at 1100.

**Rwy 05:** Requires a minimum climb gradient of 360 ft/NM to 2700. Depart rwy 05, climb hdg 057° to 1000. Climbing LEFT turn hdg 047° or as assigned. Expect radar vectors to PERLO (or as assigned) then proceed via depicted route.

**Rwy 06L:** Requires a minimum climb gradient of 400 ft/NM to 2700. Depart rwy 06L, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to PERLO (or as assigned) then proceed via depicted route.

**Rwy 06R:** Requires a minimum climb gradient of 390 ft/NM to 2700. Depart rwy 06R, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to MIXUT (or as assigned) then proceed via depicted route.

**Rwy 15L:** Requires a minimum climb gradient of 390 ft/NM to 3000. Depart rwy 15L, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to MIXUT (or as assigned) then proceed via depicted route.

**Rwy 15R:** Requires a minimum climb gradient of 380 ft/NM to 3000. Depart rwy 15R, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to MIXUT (or as assigned) then proceed via depicted route.

**Rwy 23:** Depart rwy 23, climb hdg 237° to 1100. Climbing RIGHT turn hdg 245° or as assigned. Expect radar vectors to TILAM (or as assigned) then proceed via depicted route.

**Rwys 24L & 24R:** Depart rwy 24L/R, climb hdg 237° to 1000. Climbing LEFT turn hdg 235° or as assigned. Expect radar vectors to TILAM (or as assigned) then proceed via depicted route.

**Rwy 33L:** Requires a minimum climb gradient of 250 ft/NM to 900. Depart rwy 33L, climb hdg 327° to 1100. Climbing RIGHT turn hdg 345° or as assigned. Expect radar vectors to SERPI (or as assigned) then proceed via depicted route.

**Rwy 33R:** Depart rwy 33R, climb hdg 327° to 2100. Climbing RIGHT turn hdg 340° or as assigned. Expect radar vectors to SERPI (or as assigned) then proceed via depicted route.

**DERLO TRANSITION:** (PEMBA5.DERLO)

**GNTRY TRANSITION:** (PEMBA5.GNTRY)

### Communication Failure

On recognition of failure 20 minutes or less after take-off and in IFR weather conditions proceed as follows:

1. Select transponder code 7600;
2. Beyond 10 NM from CYYZ proceed directly on course;
3. Do not climb above last assigned altitude for 5 minutes after recognition of failure, then;
4. Climb to flight planned altitude.

---

**DERLO TRANSITION:** (PEMBA5.DERLO)

**GNTRY TRANSITION:** (PEMBA5.GNTRY)
PEMBA FIVE DEP (PEMBA5) DEPARTURE ROUTES

TWR – 118.35 118.7
DEP – 128.8 127.57

Radar Required
Rwys 05, 06L, 06R, 23, 24L, 24R
Non jet act only

For use by GNSS equipped act. GNSS act with selectable CDI must be set to 1 NM sensitivity. Acft without selectable CDI must use flight director.

Caution: Rwys 05, 06L, 06R, 23, 24L, 24R departures: Simultaneous parallel departures in use.

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019
PEMBA FIVE DEP (PEMBA5) DEPARTURE ROUTES

Radar Required
Rwys 15L, 15R, 33L, 33R
Non jet act only

For use by GNSS equipped actt. GNSS actt with selectable CDI must be set to 1 NM sensitivity.
Actt without selectable CDI must use flight director

Guelph
Waterloo
Rockton

MIXUT
N43 18.10
W80 06.52

LETOR
N43 11.65
W80 15.13

Burlington Executive

SEPI
N43 36.28
W79 45.87

TWR - 118.35 118.7
DEP - 128.8 127.57

Canada Air Pilot
Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019

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CYYZ-SID-20C

Eff: 01 SEPT 19

CYYZ-SID-20C

Eff: 01 OCT 19

CYYZ-SID-20C

Eff: 01 OCT 19

CYYZ-SID-20C

Eff: 01 OCT 19

CYYZ-SID-20C

Eff: 01 OCT 19

CYYZ-SID-20C

Eff: 01 OCT 19
Effective 0001Z 10 OCT 2019 to 0001Z 5 DEC 2019

**PEMBA FIVE DEP (PEMBA5) TRANSITION ROUTES**

**TWR - 118.35 118.7**

**DEP - 128.8 127.57**

**SRC**

**CYYZ-SID-20D**

**SID (RNAV) TORONTO/LESTER B. PEARSON INTL, ON**

**PEMBA FIVE DEP**

For use by GNSS equipped acft. GNSS acft with selectable CDI must be set to 1 NM sensitivity. Acft without selectable CDI must use flight director.

**DERLO**

N43 03.98
W81 05.72

**SEVBI**

N43 07.97
W80 39.75

**LETOR**

N43 11.65
W80 15.13

**NEGW**

N43 24.63
W80 24.92

**DERLO TRANSITION (PEMBA5,DERLO)**

**GNTRY TRANSITION (PEMBA5,GNTRY)**

**TWR**

N43 03.98
W81 05.72

**TWR - 118.35 118.7**

**DEP - 128.8 127.57**

**EFF 13 SEP 18**

**EFF 1 FEB 18**

**See previous page(s) for departure routes.**

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Departure Route Description

Unless otherwise assigned by ATC:

All rwys: Maintain 3000. Aircraft assigned a turn at takeoff; commence turn at 1100.

Rwy 05: Requires a minimum climb gradient of 360 ft/NM to 2700. Depart rwy 05, climb hdg 057° to 1000. Climbing LEFT turn hdg 047° or as assigned. Expect radar vectors to PERLO (or as assigned) then proceed via depicted route.

Rwy 06L: Requires a minimum climb gradient of 400 ft/NM to 2700. Depart rwy 06L, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to PERLO (or as assigned) then proceed via depicted route.

Rwy 06R: Requires a minimum climb gradient of 390 ft/NM to 2700. Depart rwy 06R, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to PERLO (or as assigned) then proceed via depicted route.

Rwy 15L: Requires a minimum climb gradient of 390 ft/NM to 3000. Depart rwy 15L, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to MIXUT (or as assigned) then proceed via depicted route.

Rwy 15R: Requires a minimum climb gradient of 380 ft/NM to 3000. Depart rwy 15R, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to MIXUT (or as assigned) then proceed via depicted route.

Rwy 23: Depart rwy 23, climb hdg 237° to 1100. Climbing RIGHT turn hdg 245° or as assigned. Expect radar vectors to TILAM (or as assigned) then proceed via depicted route.

Rwys 24L & 24R: Depart rwy 24L/R, climb hdg 237° to 1000. Climbing LEFT turn hdg 235° or as assigned. Expect radar vectors to TILAM (or as assigned) then proceed via depicted route.

Rwy 33L: Requires a minimum climb gradient of 250 ft/NM to 900. Depart rwy 33L, climb hdg 327° to 1100. Climbing RIGHT turn hdg 345° or as assigned. Expect radar vectors to SERPI (or as assigned) then proceed via depicted route.

Rwy 33R: Depart rwy 33R, climb hdg 327° to 2100. Climbing RIGHT turn hdg 340° or as assigned. Expect radar vectors to SERPI (or as assigned) then proceed via depicted route.

DEPARTURE CLimb RATE V/V (FPM)

<table>
<thead>
<tr>
<th>GROUND SPEED</th>
<th>90</th>
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<th>140</th>
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Communication Failure

On recognition of failure 20 minutes or less after take-off and in IFR weather conditions proceed as follows:

1. Select transponder code 7600;
2. Beyond 10 NM from CYYZ proceed directly on course;
3. Do not climb above last assigned altitude for 5 minutes after recognition of failure, then;
4. Climb to flight planned altitude.

PERLO FOUR DEP (PERLO4.)

CYYZ

EFF 15 AUG 19

Canada Air Pilot

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019
PERLO FOUR DEP (PERLO4)

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**CYYZ-SID-21B**

**SID (RNAV) TORONTO/LESTER B. PEARSON INTL, ON**

**DEP – 128.3 127.57**

**TWR – 118.35 118.7**

**Radar Required.**

Rwys 05, 06L, 06R, 23, 24L, 24R

Non jet act only.

For use by GNSS equipped actf. GNSS actf with selectable CDI must be set to 1 NM sensitivity.

Actf, without selectable CDI must use flight director

Caution: Rwys 05, 06L, 06R, 23, 24L, 24R departures. Simultaneous parallel departures in use.

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019

Source of Canadian Civil Aeronautical Data. © 2019 NAV CANADA All rights reserved
Radar Required.

Rwys 15L, 15R, 33L, 33R

Non jet act only.

For use by GNSS equipped act, GNSS act with selectable CDI must be set to 1 NM sensitivity. Act without selectable CDI must use flight director.
Departure Route Description

Unless otherwise assigned by ATC:

All rwys: Maintain 5000.

Rwy 05: Requires a minimum climb gradient of 360 ft/NM to 2700. Depart rwy 05, climb hdg 057° to 1000. Climbing LEFT turn hdg 047° or as assigned. Expect radar vectors to MOBEL (or as assigned) then proceed via depicted route.

Rwy 06L: Requires a minimum climb gradient of 400 ft/NM to 2700. Depart rwy 06L, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to MOBEL (or as assigned) then proceed via depicted route.

Rwy 06R: Requires a minimum climb gradient of 390 ft/NM to 2700. Depart rwy 06R, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to MOBEL (or as assigned) then proceed via depicted route.

Rwy 15L: Requires a minimum climb gradient of 390 ft/NM to 3000. Depart rwy 15L, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to DUSOM (or as assigned) then proceed via depicted route.

Rwy 15R: Requires a minimum climb gradient of 380 ft/NM to 3000. Depart rwy 15R, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to DUSOM (or as assigned) then proceed via depicted route.

Rwy 23: Depart rwy 23, climb hdg 237° to 1100. Climbing RIGHT turn hdg 245° or as assigned. Expect radar vectors to MURNO (or as assigned) then proceed via depicted route.

Rwys 24L & 24R: Depart rwy 24L/R, climb hdg 237° to 1000. Climbing LEFT turn hdg 235° or as assigned. Expect radar vectors to MURNO (or as assigned) then proceed via depicted route.

Rwy 33L: Requires a minimum climb gradient of 250 ft/NM to 900. Depart rwy 33L, climb hdg 327° to 1100. Climbing RIGHT turn hdg 345° or as assigned. Expect radar vectors to NUBAX (or as assigned) then proceed via depicted route.

Rwy 33R: Depart rwy 33R, climb hdg 327° to 2100. Climbing RIGHT turn hdg 340° or as assigned. Expect radar vectors to NUBAX (or as assigned) then proceed via depicted route.

Communication Failure

On recognition of failure 20 minutes or less after take-off and in IFR weather conditions proceed as follows:

1. Select transponder code 7600;
2. Beyond 10 NM from CYYZ proceed directly on course;
3. Do not climb above last assigned altitude for 5 minutes after recognition of failure, then;
4. Climb to flight planned altitude.

DEPARTURE CLIMB RATE V/V (FPM)

<table>
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<tr>
<th>GROUND SPEED</th>
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</table>

PHILIPSBURG TRANSITION: (RIGUS2.PSB)

Canada Air Pilot
Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019
Radar required.

Rwy 05, 06L, 06R, 23, 24L, 24R
Jet act only

For use by GNSS or D/D/I equipped act.
Act with selectable CDI must be set to 1 NM sensitivity. Act without selectable CDI must use flight director.

**CAUTION:** Rwy 05, 06L, 06R, 23, 24L, 24R departures: Simultaneous parallel departures in use.

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019
SID (RNAV) TORONTO/LESTER B. PEARSON INTL, ON
RIGUS TWO DEP
(RIGUS2) TRANSITION ROUTES
CYYZ
DEP – 128.8 127.57
TWR – 118.35 118.7

RIGUS
N42 51.67
W79 40.10
RIGUS
N42 18.81
W79 43.66
DUSOM
N43 14.78
W79 40.42

MIO

PHILIPSBURG TRANSITION (RIGUS2.PSB)
P SB
N40 54.98
W77 59.56

USA

Canada Air Pilot
Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019

Radar Required
Jet act only
For use by GNSS or D/DI equipped act.
Act with selectable CDI must be set to 1 NM sensitivity.
Act without selectable CDI must use flight director.

SEE PREVIOUS PAGE(S) FOR DEPARTURE ROUTES
Departure Route Description

Unless otherwise assigned by ATC:

All rwys: Maintain 5000.

Rwy 05: Requires a minimum climb gradient of 360 ft/NM to 2700. Depart rwy 05, climb hdg 057° to 1000. Climbing LEFT turn hdg 047° or as assigned. Expect radar vectors to G0TIM (or as assigned) then proceed via depicted route.

Rwy 06L: Requires a minimum climb gradient of 400 ft/NM to 2700. Depart rwy 06L, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to G0TIM (or as assigned) then proceed via depicted route.

Rwy 06R: Requires a minimum climb gradient of 390 ft/NM to 2700. Depart rwy 06R, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to G0TIM (or as assigned) then proceed via depicted route.

Rwy 15L: Requires a minimum climb gradient of 390 ft/NM to 3000. Depart rwy 15L, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to B0RXU (or as assigned) then proceed via depicted route.

Rwy 15R: Requires a minimum climb gradient of 380 ft/NM to 3000. Depart rwy 15R, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to B0RXU (or as assigned) then proceed via depicted route.

Rwy 23: Depart rwy 23, climb hdg 237° to 1100. Climbing RIGHT turn hdg 245° or as assigned. Expect radar vectors to BIST1 (or as assigned) then proceed via depicted route.

Rwys 24L & 24R: Depart rwy 24L/R, climb hdg 237° to 1000. Climbing LEFT turn hdg 235° or as assigned. Expect radar vectors to BIST1 (or as assigned) then proceed via depicted route.

Rwy 33L: Requires a minimum climb gradient of 250 ft/NM to 900. Depart rwy 33L, climb hdg 327° to 1100. Climbing RIGHT turn hdg 345° or as assigned. Expect radar vectors to SEDOG (or as assigned) then proceed via depicted route.

Rwy 33R: Depart rwy 33R, climb hdg 327° to 2100. Climbing RIGHT turn hdg 340° or as assigned. Expect radar vectors to SEDOG (or as assigned) then proceed via depicted route.

DEPARTURE CLIMB RATE V/V (FPM)

<table>
<thead>
<tr>
<th>GROUND SPEED</th>
<th>90</th>
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<td>2000</td>
</tr>
</tbody>
</table>

BOBSU TRANSITION: (SEDOG4.BOBSU)

Communication Failure

On recognition of failure 20 minutes or less after take-off and in IFR weather conditions proceed as follows:

1. Select transponder code 7600;
2. Beyond 10 NM from CYYZ proceed directly on course;
3. Do not climb above last assigned altitude for 5 minutes after recognition of failure, then;
4. Climb to flight planned altitude.
Radar required
Rwys 05, 06L, 06R, 23, 24L, 24R
Jet act only

For use by GNSS or D/DI equipped aircraft. Aircraft with selectable CDI must be set to 1 NM sensitivity. Aircraft without selectable CDI must use flight director.

Caution:

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019
Radar required
Rwys 15L, 15R, 33L, 33R
Jet acft only
For use by GNSS or D/D/I equipped aircraft. Aircraft with selectable CDI must be set to 1 NM sensitivity. Aircraft without selectable CDI must use flight director.

Canada Air Pilot
Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019
CYYZ-SID-23D

SEDOG FOUR DEP (SEDOG4) TRANSITION ROUTES

TWR – 118.35
DEP – 128.8 127.57

Radar required
Jet acft only

For use by GNSS or D/D/I equipped aircraft.
Aircraft with selectable CDI must be set to 1 NM sensitivity. Aircraft without selectable CDI must use flight director.

SEDOG FOUR DEP (SEDOG4) TRANSITION ROUTES

CYYZ
EFF 27 APR 17
EFF 30 APR 15

Canada Air Pilot
Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019

BOBSU TRANSITION (SEDOG4. BOBSU)
**Departure Route Description**

Unless otherwise assigned by ATC:

**All rwys:** Maintain **3000.** Aircraft assigned a turn at takeoff; commence turn at **1100.**

**Rwy 05:** Requires a minimum climb gradient of **360 ft/NM to 2700.** Depart rwy 05, climb hdg **057°** to **1000.** Climbing LEFT turn hdg **047°** or as assigned. Expect radar vectors to PERLO (or as assigned) then proceed via depicted route.

**Rwy 06L:** Requires a minimum climb gradient of **400 ft/NM to 2700.** Depart rwy 06L, climb hdg **057°** to **1000.** Continue climb hdg **057°** or as assigned. Expect radar vectors to PERLO (or as assigned) then proceed via depicted route.

**Rwy 06R:** Requires a minimum climb gradient of **390 ft/NM to 2700.** Depart rwy 06R, climb hdg **057°** to **1000.** Continue climb hdg **057°** or as assigned. Expect radar vectors to PERLO (or as assigned) then proceed via depicted route.

**Rwy 15L:** Requires a minimum climb gradient of **390 ft/NM to 3000.** Depart rwy 15L, climb hdg **147°** to **1000.** Continue climb hdg **147°** or as assigned. Expect radar vectors to NADUM (or as assigned) then proceed via depicted route.

**Rwy 15R:** Requires a minimum climb gradient of **380 ft/NM to 3000.** Depart rwy 15R, climb hdg **147°** to **1000.** Continue climb hdg **147°** or as assigned. Expect radar vectors to NADUM (or as assigned) then proceed via depicted route.

**Rwy 23:** Depart rwy 23, climb hdg **237°** to **1100.** Climbing RIGHT turn hdg **245°** or as assigned. Expect radar vectors to MAVAN (or as assigned) then proceed via depicted route.

**Rwy 24L & 24R:** Depart rwy 24L/R, climb hdg **237°** to **1000.** Climbing LEFT turn hdg **235°** or as assigned. Expect radar vectors to MAVAN (or as assigned) then proceed via depicted route.

**Rwy 33L:** Requires a minimum climb gradient of **250 ft/NM to 900.** Depart rwy 33L, climb hdg **327°** to **1100.** Climbing RIGHT turn hdg **345°** or as assigned. Expect radar vectors to NUBAN (or as assigned) then proceed via depicted route.

**Rwy 33R:** Depart rwy 33R, climb hdg **327°** to **2100.** Climbing RIGHT turn hdg **340°** or as assigned. Expect radar vectors to NUBAN (or as assigned) then proceed via depicted route.

<table>
<thead>
<tr>
<th>DEPARTURE CLimb Rate V/V (FPM)</th>
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</thead>
<tbody>
<tr>
<td>GROUND SPEED</td>
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<td>390 FT/NM</td>
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<td>400 FT/NM</td>
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</table>

**AHPAH Transition:** (TEVAD2.AHPAH)

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**Communication Failure**

On recognition of failure 20 minutes or less after take-off and in IFR weather conditions proceed as follows:

1. Select transponder code 7600;
2. Beyond 10 NM from CYYZ proceed directly on course;
3. Do not climb above last assigned altitude for 5 minutes after recognition of failure, then;
4. Climb to flight planned altitude.
Radar required.

Rwy s 05, 06L, 06R, 23, 24L, 24R

Non jet act only

For use by GNSS equipped act. GNSS act. with selectable CDI must be set to 1 NM sensitivity. Act without selectable CDI must use flight director.

Radar required.
Rwys 15L, 15R, 33L, 33R
Non jet act only
For use by GNSS equipped act. GNSS act.
with selectable CDI must be set to 1 NM sensitivity.
Act without selectable CDI must use flight director.

TEVAD TWO DEP (TEVAD2)

CYYZ-SID-24C

SID (RNAV) TORONTO/LESTER B. PEARSON INTL, ON

Canada Air Pilot

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019
Departure Route Description

Unless otherwise assigned by ATC

Note: Aircraft assigned a turn at take-off, commence turn at 1100.

Rwy 05: Requires a minimum climb gradient of 360 ft/NM to 2700. Depart rwy 05 hdg 057° to 1000. Climbing LEFT turn hdg 047° or assigned hdg for vectors to assigned route. Climb to and maintain: Jet acft: 5000, Non-Jet acft: 3000.

Rwy 06L: Requires a minimum climb gradient of 400 ft/NM to 2700. Depart rwy 06L hdg 057° or assigned hdg for vectors to assigned route. Climb to and maintain: Jet acft: 5000, Non-Jet acft: 3000.

Rwy 06R: Requires a minimum climb gradient of 390 ft/NM to 2700. Depart rwy 06R hdg 057° or assigned hdg for vectors to assigned route. Climb to and maintain: Jet acft: 5000, Non-Jet acft: 3000.

Rwy 15L: Requires a minimum climb gradient of 390 ft/NM to 3000. Depart rwy 15L hdg 147° cross YTP 7.9 DME Ch 112(Y) at or above 3000. Maintain hdg for vectors to assigned route. Climb to and maintain: Jet acft: 5000, Non-Jet acft: 3000.

Rwy 15R: Requires a minimum climb gradient of 380 ft/NM to 3000. Depart rwy 15R hdg 147° cross YTP 7.9 DME Ch 112(Y) at or above 3000. Maintain hdg for vectors to assigned route. Climb to and maintain: Jet acft: 5000, Non-Jet acft: 3000.


Rwy 24L: Depart rwy 24L hdg 237°. At YYZ 1.6 DME Ch 58(Y), turn LEFT hdg 235° or assigned hdg for vectors to assigned route. Climb to and maintain: Jet acft: 5000, Non-Jet acft: 3000.

Rwy 24R: Depart rwy 24R hdg 237°. At YYZ 1.6 DME Ch 58(Y), turn LEFT hdg 235° or assigned hdg for vectors to assigned route. Climb to and maintain: Jet acft: 5000, Non-Jet acft: 3000.

Rwy 33L: Requires a minimum climb gradient of 250 ft/NM to 900. Depart rwy 33L hdg 327° to 1100. Climbing RIGHT turn hdg 345° or assigned hdg for vectors to assigned route. Climb to and maintain: Jet acft: 5000, Non-Jet acft: 3000.

Rwy 33R: Depart rwy 33R hdg 327° to 2100. Climbing RIGHT turn to hdg 340° or assigned hdg for vectors to assigned route. Climb to and maintain: Jet acft: 5000, Non-Jet acft: 3000.

<table>
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<td>2000</td>
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Communication Failure

On recognition of failure 20 minutes or less after take-off and in IFR weather conditions proceed as follows:

1. Select transponder code 7600;
2. Beyond 10 DME (YYZ) proceed directly on course;
3. Do not climb above last assigned altitude for 5 minutes after recognition of failure, then;
4. Climb to flight planned altitude.
Day procedure.
For use between 0630 to 0000 local time

Unless otherwise assigned by ATC:
Jet actf maintain 5000 ASL,
Non-jet actf maintain 3000 ASL.

Do not exceed 250 kt until above 10,000 ASL.

Caution: Rwy 05, 06L, 06R, 24L, 24R, 23 departures:
Simultaneous parallel departures in use.

Canada Air Pilot
Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019
Departure Route Description

Unless otherwise assigned by ATC:

**All rwys:** Maintain 3000. Aircraft assigned a turn at takeoff; commence turn at 1100.

**Rwy 05:** Requires a minimum climb gradient of 360 ft/NM to 2700. Depart rwy 05, climb hdg 057° to 1000. Climbing LEFT turn hdg 047° or as assigned. Expect radar vectors to MEMPA (or as assigned) then proceed via depicted route.

**Rwy 06L:** Requires a minimum climb gradient of 400 ft/NM to 2700. Depart rwy 06L, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to MEMPA (or as assigned) then proceed via depicted route.

**Rwy 06R:** Requires a minimum climb gradient of 390 ft/NM to 2700. Depart rwy 06R, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to MEMPA (or as assigned) then proceed via depicted route.

**Rwy 15L:** Requires a minimum climb gradient of 390 ft/NM to 3000. Depart rwy 15L, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to IPSOT (or as assigned) then proceed via depicted route.

**Rwy 15R:** Requires a minimum climb gradient of 380 ft/NM to 3000. Depart rwy 15R, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to IPSOT (or as assigned) then proceed via depicted route.

**Rwy 23:** Depart rwy 23, climb hdg 237° to 1100. Climbing RIGHT turn hdg 245° or as assigned. Expect radar vectors to TULEK (or as assigned) then proceed via depicted route.

**Rwy 24L & 24R:** Depart rwy 24L/R, climb hdg 237° to 1000. Climbing LEFT turn hdg 235° or as assigned. Expect radar vectors to TULEK (or as assigned) then proceed via depicted route.

**Rwy 33L:** Requires a minimum climb gradient of 250 ft/NM to 900. Depart rwy 33L, climb hdg 327° to 1100. Climbing RIGHT turn hdg 345° or as assigned. Expect radar vectors to TULEK (or as assigned) then proceed via depicted route.

**Rwy 33R:** Depart rwy 33R, climb hdg 327° to 2100. Climbing RIGHT turn hdg 340° or as assigned. Expect radar vectors to TULEK (or as assigned) then proceed via depicted route.

**DEPARTURE CLIMB RATE V/V (FPM)**

<table>
<thead>
<tr>
<th>GROUND SPEED</th>
<th>90</th>
<th>120</th>
<th>140</th>
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</table>

**SLLAP TRANSITION:** (TULEK3.SLLAP)

**HOCKE TRANSITION:** (TULEK3.HOCKE)

**IKMOK TRANSITION:** (TULEK3.IKMOK)

Communication Failure

On recognition of failure 20 minutes or less after take-off and in IFR weather conditions proceed as follows:

1. Select transponder code 7600;
2. Beyond 10 NM from CYYZ proceed directly on course;
3. Do not climb above last assigned altitude for 5 minutes after recognition of failure, then;
4. Climb to flight planned altitude.
Radar Required

Rwys 05, 06L, 06R, 23, 24L, 24R

Non jet act only.

For use by GNSS equipped act. GNSS act with selectable CDI must be set to 1 NM sensitivity.
Act without selectable CDI must use flight director.

**Caution:** Rwys 05, 06L, 06R, 23, 24L, 24R departures:
Simultaneous parallel departures in use.

**Sid (RNAV)**

**SID (RNAV)**

**TULEK THREE DEP (TULEK3) DEPARTURE ROUTES**

**CYYZ**

**Dep –**

128.8 127.57

**TWR –**

118.85 118.7

**Effective 19 Jul 18**

**Effective 27 Apr 17**

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CYYZ-SID-26D

SID (RNAV) TORONTO/LESTER B. PEARSON INTL, ON
TULEK THREE DEP (TULEK3) TRANSITION ROUTES

EFF 19 JUL 18
EFF 27 APR 17
EFF 19 JUL 18

Canada Air Pilot
Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019

Radar Required.
Non jet act only.

For use by GNSS equipped actt. GNSS actt with selectable CDI must be set to 1 NM sensitivity. Actt without selectable CDI must use flight director.
Departure Route Description

Unless otherwise assigned by ATC:

All rwys: Maintain 5000.

Rwy 05: Requires a minimum climb gradient of 360 ft/NM to 2700. Depart rwy 05, climb hdg 057° to 1000. Climbing LEFT turn hdg 047° or as assigned. Expect radar vectors to KEDSI (or as assigned) then proceed via depicted route.

Rwy 06L: Requires a minimum climb gradient of 400 ft/NM to 2700. Depart rwy 06L, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to KEDSI (or as assigned) then proceed via depicted route.

Rwy 06R: Requires a minimum climb gradient of 390 ft/NM to 2700. Depart rwy 06R, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to KEDSI (or as assigned) then proceed via depicted route.

Rwy 15L: Requires a minimum climb gradient of 390 ft/NM to 3000. Depart rwy 15L, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to BOVAL (or as assigned) then proceed via depicted route.

Rwy 15R: Requires a minimum climb gradient of 380 ft/NM to 3000. Depart rwy 15R, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to BOVAL (or as assigned) then proceed via depicted route.

Rwy 23: Depart rwy 23, climb hdg 237° to 1100. Climbing RIGHT turn hdg 245° or as assigned. Expect radar vectors to TILAM (or as assigned) then proceed via depicted route.

Rwys 24L & 24R: Depart rwy 24L/R, climb hdg 237° to 1000. Climbing LEFT turn hdg 235° or as assigned. Expect radar vectors to TILAM (or as assigned) then proceed via depicted route.

Rwy 33L: Requires a minimum climb gradient of 250 ft/NM to 900. Depart rwy 33L, climb hdg 327° to 1100. Climbing RIGHT turn hdg 345° or as assigned. Expect radar vectors to TETAD (or as assigned) then proceed via depicted route.

Rwy 33R: Depart rwy 33R, climb hdg 327° to 2100. Climbing RIGHT turn hdg 340° or as assigned. Expect radar vectors to TETAD (or as assigned) then proceed via depicted route.

DEPARTURE CLIMB RATE V/V (FPM)

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KASED TRANSITION: (URSAL3.KASED)

ZOHAN TRANSITION: (URSAL3.ZOHAN)

Communication Failure

On recognition of failure 20 minutes or less after take-off and in IFR weather conditions proceed as follows:

1. Select transponder code 7600;
2. Beyond 10 NM from CYYZ proceed directly on course;
3. Do not climb above last assigned altitude for 5 minutes after recognition of failure, then;
4. Climb to flight planned altitude.
URSAL THREE DEP (URSAL3) DEPARTURE ROUTES

CYYZ

Radar Required
Rwys 05, 06L, 06R, 23, 24L, 24R
Jet act only.
For use by GNSS or D/D/I equiped acft.
Acft with selectable CDI must be set to 1 NM sensitivity.
Acft without selectable CDI must use flight director.

Caution: Rwys 05, 06L, 06R, 23, 24L, 24R departures: Simultaneous parallel departures in use.

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019

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URSAL THREE DEP (URSAL3) DEPARTURE ROUTES

CYYZ-SID-27C

SID (RNAV) TORONTO/LESTER B. PEARSON INTL, ON

URSAL THREE DEP (URSAL3) DEPARTURE ROUTES

CYYZ

DEP – 128.8 127.57

TWR – 118.35 118.7

Radar Required

Rwys 15L, 15R, 33L, 33R

Jet act. only.

For use by GNSS or D/D/l equipped act.

Act with selectable CDI must be set to 1 NM sensitivity.

Act without selectable CDI must use flight director.

Effective 27 APR 17

Eff 30 APR 15

Canada Air Pilot

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019

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Canada Air Pilot
Source of Canadian Civil Aeronautical Data: © 2019 NAV CANADA All rights reserved

**URSAL THREE DEP (URSAL3) TRANSITION ROUTES**

- **TWR – 118.35 118.7**
- **DEP – 128.8 127.57**

**URSAL THREE DEP** (URSAL3) TRANSITION ROUTES

- **URSAL**
  - N43 50.22
  - W80 11.17

- **KASED**
  - N44 28.32
  - W82 11.92

- **NOSIK**
  - N43 59.00
  - W82 11.87

- **ZOHAN**
  - N43 55.95
  - W84 23.15

- **BESID**
  - N43 57.98
  - W80 46.77

For use by GNSS or D/DI equipped acft.
Aircraft with selectable CDI must be set to 1 NM sensitivity.
Aircraft without selectable CDI must use flight director.

Radar Required
Jet act only.

**NOT TO SCALE**

Canada Air Pilot

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019

See previous page(s) for departure routes.
**Departure Route Description**

Unless otherwise assigned by ATC:

**All rwys:** Maintain 5000.

**Rwy 05:** Requires a minimum climb gradient of 360 ft/NM to 2700. Depart rwy 05, climb hdg 057° to 1000. Climbing LEFT turn hdg 047° or as assigned. Expect radar vectors to ALKUT (or as assigned) then proceed via depicted route.

**Rwy 06L:** Requires a minimum climb gradient of 400 ft/NM to 2700. Depart rwy 06L, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to ALKUT (or as assigned) then proceed via depicted route.

**Rwy 06R:** Requires a minimum climb gradient of 390 ft/NM to 2700. Depart rwy 06R, climb hdg 057° to 1000. Continue climb hdg 057° or as assigned. Expect radar vectors to ALKUT (or as assigned) then proceed via depicted route.

**Rwy 15L:** Requires a minimum climb gradient of 390 ft/NM to 3000. Depart rwy 15L, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to ALKUT (or as assigned) then proceed via depicted route.

**Rwy 15R:** Requires a minimum climb gradient of 380 ft/NM to 3000. Depart rwy 15R, climb hdg 147° to 1000. Continue climb hdg 147° or as assigned. Expect radar vectors to ALKUT (or as assigned) then proceed via depicted route.

**Rwy 23:** Depart rwy 23, climb hdg 237° to 1100. Climbing RIGHT turn hdg 245° or as assigned. Expect radar vectors to SAVUR (or as assigned) then proceed via depicted route.

**Rwys 24L & 24R:** Depart rwy 24L/R, climb hdg 237° to 1000. Climbing LEFT turn hdg 235° or as assigned. Expect radar vectors to SAVUR (or as assigned) then proceed via depicted route.

**Rwy 33L:** Requires a minimum climb gradient of 250 ft/NM to 900. Depart rwy 33L, climb hdg 327° to 1100. Climbing RIGHT turn hdg 345° or as assigned. Expect radar vectors to VIVET (or as assigned) then proceed via depicted route.

**Rwy 33R:** Depart rwy 33R, climb hdg 327° to 2100. Climbing RIGHT turn hdg 340° or as assigned. Expect radar vectors to VIVET (or as assigned) then proceed via depicted route.

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**Communication Failure**

On recognition of failure 20 minutes or less after take-off and in IFR weather conditions proceed as follows:

1. Select transponder code 7600;
2. Beyond 10 NM from CYYZ proceed directly on course;
3. Do not climb above last assigned altitude for 5 minutes after recognition of failure, then;
4. Climb to flight planned altitude.

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**ELSUB TRANSITION:** (VERDO6.ELSUB)

**IPTOS TRANSITION:** (VERDO6.IPTOS)

**LORKA TRANSITION:** (VERDO6.LORKA)**
SID (RNAV)

CYYZ-SID-28B

VERDO SIX DEP (VERDO6.) DEPARTURE ROUTES

TORONTO/LESTER B. PEARSON INTL, ON

CYYZ

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Canada Air Pilot

Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019
VERDO SIX DEP (VERDO6) DEPARTURE ROUTES

Radar required

Jet act only

For use by GNSS or D/DI equipped act.
Act with selectable CDI must be set to 1 NM sensitivity. Act without selectable CDI must use flight director.

Caution: Rwys 05, 06L, 06R, 23, 24L, 24R departures: Simultaneous parallel departures in use.

VERDO SIX DEP (VERDO6) DEPARTURE ROUTES

VERDO
N43 46.30
W78 45.98

Canada Air Pilot
Effective 0001Z 10 OCT 2019 to 0901Z 5 DEC 2019
SID (RNAV) TORONTO/LESTER B. PEARSON INTL, ON

Verdo Six Dep

- Radar required
- Jet act only
- For use by GNSS or D/D/I equipped act. Act with selectable CDI must be set to 1 NM sensitivity. Act without selectable CDI must use flight director.
- Caution: Rwys 05, 06L, 06R, 23, 24L, 24R departures: Simultaneous parallel departures in use.

Verdo Six Dep

- Effective 0901Z 10 OCT 2019 to 0901Z 5 DEC 2019