

Advanced RPAS Operations Structure

- Mission objective:
- Date:
- Time:
- Location:

Contacts

- Pilot In Command:
- Pilot In Command Phone:
- PIC Certificate Number:
- TC Account Number:
- Crew Member 01:
- Crew Member 01 Phone:
- Crew Member 02:
- Crew Member 02 Phone:
- Local ATC: **CYKZ Buttonville**
- Local ATC Number: +1 905 477 6576
- Local ATC Terminal Freq: 133.4
- Local ATC Man Freq: 124.8
- Local ATC Ground Freq: 121.8
- Common Freq Area: 122.9
- Uncontrolled Airspace: 126.7
- Uncontrolled, unassigned aerodromes: 123.2
- NAV Can Area Control Centre Phone: 866-541-4104
- NAV Can Flight Info Region: London
- Property Owner:
- Property Owner Phone:
- TSB air transportation occurrence: 1-800-387-3557

Pre-DEPLOYMENT

Site Survey

Land

- Boundaries:
 - 43.86502601217539, -79.3746921426261
 - 43.86601623831305, -79.36765348461313
 - 43.85688806192011, -79.37220263098689
 - 43.858342286005076, -79.36533650835457
- Obstacles:
- Tallest Obstacle: feet =, metres =
- Alternative Landing LZ:

Air

- **Controlled**/Uncontrolled Airspace:
- Altitude/Route for TO/LZ:
- Manned Aircraft Proximity: CYKZ VFR Route
- Heli/Air/Aero Proximity:

Weather (24 hours before)

- WeatherCAN:
- NOTAM:
- METAR:
- WX Notes:

People

- Horizontal distances from person not involved:

NAV Canada Drone App

- Allowed or **Not Allowed**:
- Advanced Pilot License if:
 - flying within 100 feet (30 metres) but not less than 16.4 feet (5 metres) of a bystander
 - **within three nautical miles (5.6 kilometres) of an airport** or one nautical mile (1.9 kilometres) of a heliport

- or in controlled airspace:
- If Allowed, Create Operation:
- **If Not Allowed, request RPAS Authorization Form:**
- If Allowed or Not and at least one of the following, Request Special Flight Operations Certificate (SFOC) Form:
 - Above 25 kg:
 - **Above 400 FEET Above Ground Level:**
 - Beyond Visual Line of Sight:
 - Foreign Operator or Pilot:
 - payload that:
 - includes explosive, corrosive, flammable, or bio-hazardous material;
 - includes weapons, ammunition or other equipment designed for use in war;
 - could create a hazard to aviation safety or cause injury to persons; or
 - is attached to the aircraft by means of a line unless such an operation is conducted in accordance with the manufacturer's instructions.
 - More than 5 RPAS:
 - Special Aviation Event or Advertised Event:
 - < 3nm of a Military Aerodrome:

Documentation

- Flight Termination:
 - Clear RTH / LZ
 - Maintain VLOS
 - Maintain control or RTH
 - Land
- Lost Link:
 - Reorient antenna
 - Move closer to drone and away from obstacles
 - Confirm cable connection
- RPA Failure:
 - Maintain VLOS and consider drift
 - Deploy parachute (if applicable)
 - Prepare safe landing area
 - Prepare for injury
 - Prepare for incident response
- Power Down Controller:
 - Lost Link
 - Flight Termination
- Crashed App:
 - Restart app
 - IF app NOT OK > Flight Termination
- Low Battery:
 - Flight Termination
- Fly-Away WITH Parachute:
 - Deploy parachute
 - RPA failure
- Fly-Away NO Parachute:
 - Alert air navigation service provider (ANSP) with (Altitude, Battery, Colour, Direction)
 - RPA Failure
- VFR Terminal Area Chart: 48th Edition 05/21
- Map of Mission Area:
- Transport Canada Aeronautical Information Manual:
 - Effective 0901Z, March 25, 2021 to 0901Z, October 7, 2021
- Designated Airspace Handbook:
 - ISSUE NO 290
 - EFFECTIVE 0901Z 12 AUGUST 2021
- Canadian Airport Charts: CYKZ
- Flight Reviewer's Guide:
- TSB Aviation occurrence reporting form:

Equipment

- Drone Model: Mavic Air 2
- Drone Model Limitations:
 - Max Flight Time (without wind): 34 minutes
 - Max Flight Distance: 18.5 km
 - Operating Temperature Range: -10° to 40°C
 - Charging Temperature: 5° to 40°C
 - Internal Storage: 8 GB
 - Obstacle Avoidance System: Advanced Pilot Assistance Systems (APAS) 3.0
- Drone is serviceable and maintained:
- Drone has enough fuel or energy to complete mission:
- Radio - Installed, serviceable, charged and updated:
- Laptop - Installed, serviceable, charged and updated:
- Cel Phone - Installed, serviceable, charged and updated:
- Tablet - Installed, serviceable, charged and updated:
- GPS - Installed, serviceable, charged and updated:
- Fire Extinguisher - serviceable, charged and updated:
- First Aid Kit - serviceable:
- Safety Vests - serviceable:
- Safety Pylons - serviceable:

Updates

- Weather 2 hours before:

Pre-FLIGHT

Pilot in Command and Crew are fit to continue if ALL checked:

- Not under the influence of drugs or alcohol:
- No alcohol in last 12 hours:
- No cannabis in last 28 days:
- No illness to impair ability:
- No prescription drugs to impair ability:
- Not stressed:
- Not fatigued:
- Healthy emotional state:
- Sufficient nutrition and fluids:

Crew Briefing

- Mission Objective:
- Site Survey + NAV Canada Drone App + Documentation:
- Crew roles and responsibilities:
- Crew questions:

- Drone Assembly
- Payload
- Landing Zone
- Power Controller ON
- Power Drone ON
- Check Link
- Parameters Set

TAKE-OFF

- Take-Off Time:
- Motors ON:
- Take-Off CLEAR:
- VLOS:
- Check Controls and Status:

LANDING

- Clear Landing Zone:

AFTER-LANDING

- Motors OFF:
- Landing Time:
- Check Data:
- Power Drone OFF
- Power Controller OFF

POST MISSION

- Check Equipment:
- Transfer Data:
- Charge Battery:
- Crew De-Briefing
 - Mission Objective Status:
 - Positive feedback:
 - Constructive Feedback:
 - Crew questions & comments:

BATTERY SWAP

- Clear Landing Area:
- Motors OFF:
- Landing Time:
- Power Drone OFF
- Battery Swap:
- Power Drone ON
- Take-Off Time:
- Motors ON:
- Take-Off CLEAR:
- VLOS:

HANDOVER

- Communicate Position, Altitude, Battery, Mode:
- VLOS:
- Transfer Control:

TSB air transportation occurrence

- 1-800-387-3557
- in the case of an accident
- a person is killed or sustains a serious injury as a result of
 - coming into direct contact with any part of the aircraft, including parts that have become detached from the aircraft, or
 - the aircraft is missing or inaccessible
 - the aircraft sustains structural failure, not engine or propellers, wing tips, antennae, tires, brakes, fairings or small dents or puncture holes in the aircraft's skin
- Submit a full report within 30 days of the occurrence
- Aviation occurrence reporting form

Flight Information Centres (FIC)

- interpretive weather briefings, advisory services and flight plan filing by telephone at 1-866-WX-BRIEF

RECORD KEEPING

- 12 months from day of mission:
- 24 months from day of any modifications to drone:
- 12 months from day of any incident report filed:

HORIZONTAL FLY-AWAY

- 10NM of CDE:
 - Nearest Tower or Aerodrome:
 - FIR ACC Shift Manager:

VERTICAL FLY-AWAY

- 10NM of CDE:
 - FIR ACC Shift Manager:
 - Nearest Tower or Aerodrome:

COLLABORATIVE FLIGHT PLANNING SERVICES

NOTAM

CYKZ

(G1495/21 NOTAMR G0671/21

A) CZYZ CZWG B) 2109021526 C) 2112021600EST

E) COVID-19: FLIGHT RESTRICTIONS

UNTIL FURTHER NOTICE, WITH THE INTENT TO PREVENT THE SPREAD OF COVID-19 THROUGHOUT CANADA, AN OPERATOR OPERATING A FLIGHT BETWEEN TWO POINTS IN CANADA OR A FLIGHT TO CANADA MUST COMPLY WITH THE PROVISIONS OF THE INTERIM ORDER RESPECTING CERTAIN REQUIREMENTS FOR CIVIL AVIATION DUE TO COVID-19, ISSUED BY THE MINISTER OF TRANSPORT AND CURRENTLY IN FORCE. THIS INCLUDES A REQUIREMENT FOR PASSENGER FACE MASKS. OPERATORS ARE REQUIRED TO NOTIFY PASSENGERS OF THE LATEST MEASURES TO PREVENT THE SPREAD OF COVID-19 TAKEN BY THE TERRITORIAL AND PROVINCIAL GOVERNMENT WITH JURISDICTION AT THE DESTINATION AERODROME FOR THAT FLIGHT, OR BY THE FEDERAL GOVERNMENT.

F) SFC G) UNL)

2021-09-02 15:26

NOTAM

CYKZ

(G1456/21 NOTAMN

A) CZYZ CZWG B) 2108290401 C) 2109290400

E) COVID-19: FLIGHT RESTRICTIONS

PURSUANT TO SECTION 5.1 OF THE AERONAUTICS ACT, THE MINISTER OF TRANSPORT IS OF THE OPINION IT IS NECESSARY FOR AVIATION SAFETY AND THE PROTECTION OF THE PUBLIC, TO PROHIBIT THE OPS OF ACFT INVOLVED IN SKED AND NON SKED INTL COMMERCIAL AIR SVC FM MOROCCO, FOR THE TRANSPORT OF PASSENGERS ON AN INBOUND FLT TO CANADA. THIS PROHIBITION FURTHER APPLIES TO OPS OF ACFT INVOLVED IN PRIVATE AND CHARTER AIR SVC.

THIS PROHIBITION DOES NOT APPLY TO ACFT OPERATED IN THE FLW CIRCUMSTANCES:

- CARGO FLT
- MEDEVAC FLT
- FERRY FLT
- FLIGHT CREW REPATRIATION FLT
- TECHNICAL STOPS WHERE PASSENGERS DO NOT DISEMBARK, OR
- AT ALTERNATE AP IDENTIFIED IN A FLT PLAN TO ADDRESS WX, OR
- ACFT SAFETY SITUATIONS, OR
- FLT EN ROUTE TO CANADA AT THE TIME THIS NOTICE TAKES EFFECT
- IN THE CASE WHERE SPECIAL AUTH HAS BEEN GRANTED BY

TRANSPORT CANADA: 1-613-992-6853.

F) SFC G) UNL)

2021-08-28 16:17 2021-09-29 04:00

NOTAM

CYKZ

(G1396/21 NOTAMR G1144/21

A) CZYZ CZWG B) 2108202215 C) 2111181600

E) AIRSPACE SECURITY WARNING ISSUED BY THE DEPARTMENT OF TRANSPORT IN RESPONSE TO THE VOLATILE SECURITY SITUATION IN AFGHANISTAN. POTENTIAL RISK FROM EXTREMIST AND MILITANT ACTIVITY AND LIMITED RISK MITIGATION CAPABILITIES. CANADIAN AIR OPERATORS AND OWNERS OF AIRCRAFT REGISTERED IN CANADA ARE ADVISED NOT TO ENTER THE AIRSPACE OF AFGHANISTAN (KABUL FIR (OAKX)).)

2021-08-20 22:15 2021-11-18 16:00

NOTAM

CYKZ

(G1302/21 NOTAMR G1063/21

A) CZWG CZYZ B) 2108092110 C) 2109220359

E) COVID-19: FLIGHT RESTRICTIONS

PURSUANT TO SECTION 5.1 OF THE AERONAUTICS ACT, THE MINISTER OF TRANSPORT IS OF THE OPINION IT IS NECESSARY FOR AVIATION SAFETY AND THE PROTECTION OF THE PUBLIC, TO PROHIBIT THE OPS OF ACFT INVOLVED IN SKED AND NON SKED INTL COMMERCIAL AIR SVC FM INDIA, FOR THE TRANSPORT OF PASSENGERS ON AN INBOUND FLT TO CANADA. THIS PROHIBITION FURTHER APPLIES TO OPS OF ACFT INVOLVED IN PRIVATE AND CHARTER AIR SVC.

THIS PROHIBITION DOES NOT APPLY TO ACFT OPERATED IN THE FLW CIRCUMSTANCES:

- CARGO FLT
- MEDEVAC FLT
- FERRY FLT
- FLIGHT CREW REPATRIATION FLT
- TECHNICAL STOPS WHERE PASSENGERS DO NOT DISEMBARK, OR
- AT ALTERNATE AP IDENTIFIED IN A FLT PLAN TO ADDRESS WX, OR
- ACFT SAFETY SITUATIONS, OR
- FLT EN ROUTE TO CANADA AT THE TIME THIS NOTICE TAKES EFFECT
- IN THE CASE WHERE SPECIAL AUTH HAS BEEN GRANTED BY
TRANSPORT CANADA: 1-613-992-6853.
F) SFC G) UNL)

2021-08-09 21:10 2021-09-22 03:59

NOTAM

CYKZ

(G1190/21 NOTAMN
A) CZYZ CZWG B) 2108090401 C) 2110290400
E) COVID-19: FLIGHT RESTRICTIONS
UNTIL FURTHER NOTICE, WITH THE INTENT TO PREVENT THE SPREAD OF
COVID-19 THROUGHOUT CANADA, ALL COMMERCIAL AIR SVC, PRIVATE OPR
(CAR SUBPART 604) AND FOREIGN BUSINESS AVIATION, THAT ARE
TRANSPORTING PASSENGERS TO CANADA MUST COMPLY WITH THE PROVISIONS
OF THE INTERIM ORDER RESPECTING CERTAIN REQUIREMENTS FOR CIVIL
AVIATION DUE TO COVID-19, ISSUED BY THE MINISTER OF TRANSPORT AND
CURRENTLY IN FORCE. THIS INCLUDES A REQUIREMENT PASSENGERS TO
WEAR FACE MASKS AND PROVIDE EVIDENCE OF A NEGATIVE RESULT FOR A
COVID-19 MOLECULAR TEST PRIOR TO BOARDING.

IN ADDITION TO ABV, AND PURSUANT TO SECTION 5.1 OF THE
AERONAUTICS ACT, ALL COMMERCIAL AIR SVC, PRIVATE OPR
(CAR SUBPART 604) AND FOREIGN BUSINESS AVIATION, THAT ARE
TRANSPORTING PASSENGERS TO CANADA MUST, FOR THE PURPOSE OF
DISEMBARKING PASSENGERS, LAND AT ONE OF THE FOLLOWING AP:

- AEROPORT INTL DE MONTREAL-TRUDEAU (CYUL)
- AEROPORT DE QUEBEC-JEAN LESAGE (CYQB)
- CALGARY INTL AIRPORT (CYYC)
- EDMONTON INTL AIRPORT (CYEG)
- WINNIPEG INTL AIRPORT- JAMES ARMSTRONG (CYWG)
- TORONTO-PEARSON INTL AIRPORT (CYYZ)
- OTTAWA INTL AIRPORT (CYOW)
- VANCOUVER INTL AIRPORT (CYVR)
- HALIFAX INTL AIRPORT-STANDFIELD (CYHZ)

THIS RESTRICTION DOES NOT APPLY TO ACFT OPERATED IN THE FLW
CIRCUMSTANCES:

- DIRECT FLT FM SAINT-PIERRE-ET-MIQUELON
- MEDEVAC FLT
- FERRY AND CREW REPATRIATION FLT
- CARGO FLIGHTS CARRYING ONLY AIRCREW OR AIRLINE EMPLOYEES
- TECHNICAL STOPS WHERE PASSENGERS DO NOT DISEMBARK
- AT ALTERNATE AP IDENTIFIED IN A FLT PLAN TO ADDRESS WX
- ACFT SAFETY SITUATIONS, OR
- IN THE CASE WHERE SPECIAL

AUTH

HAS BEEN GRANTED BY TRANSPORT
CANADA: 1-888-857-4003.

F) SFC G) UNL)

2021-08-02 11:40 2021-10-29 04:00

NOTAM

CYKZ

(G1151/21 NOTAMR G0491/21
A) CZYZ CZWG B) 2107291701 C) 2110291500EST
E) COVID 19: INFORMATION
BORDER SVC ARE TEMPO SUSPENDED AT THE MAJORITY OF SMALL AIRPORTS
ACROSS CANADA. FOR AN UPDATED LIST OF AUTH AIRPORTS OF ENTRY SEE
THE LINK FOR OPEN PORTS OF ENTRY AT WWW.CBSA-ASFC.GC.CA/OFFICES)

2021-07-29 17:01

NOTAM

CYKZ

(G1017/21 NOTAMR G0497/21
A) CZYZ B) 2107141254 C) 2109302359
E) NOTICE OF TRIAL TO REMOVE FLT PLANNING REQUIREMENTS OF EASTBOUND
NORTH AMERICAN RTE (NAR) SYSTEM:

ALL FLT OPR WITHIN THE NORTH ATLANTIC ORGANIZED TRACK STRUCTURE (OTS) ARE NOT REQUIRED TO FILE THE ASSOCIATED NAR LISTED ON THE DAILY ZBW NORTH ATLANTIC ADVISORY OR THE NAT OTS MESSAGE. ASSOCIATED NAR ARE REFERENCED UNDER THE (JFK DEP) SECTION OF THE ADVISORY.

DEP MUST STILL COMPLY WITH ANY DEP RTE, STRUCTURES, AND/OR RESTRICTIONS FM THE DEP AP. OPTIMIZED ROUTINGS CAN ONLY BEGIN FM POINTS WITHIN ZBW AIRSPACE, THE MONCTON FIR, OR BOTH. ONCE INSIDE ZBW AIRSPACE/MONCTON FIR, RANDOM ROUTINGS TO THE OEP ARE PERMITTED. FLT PATHS OF ACFT PARTICIPATING IN THE TRIAL MUST REMAIN AT OR NORTH OF A LINE VITOL-LOMPI. PLEASE REFER TO DAILY ZBW NORTH ATLANTIC ADVISORY FOR SPECIFIC INFO AND STATUS OF THIS TRIAL.

THIS TRIAL MAY BE DISCONTINUED AT ANY TIME, BASED ON OPR IMPACT.

DISPATCHERS SHALL INCLUDE (NO NARS EAST TRIAL) IN THE REMARKS SECTION OF FLT PLANS FOR PARTICIPATING ACFT.

FLT CREWS ARE EXPECTED TO CARRY APPLICABLE NAR DOCUMENTATION ON THE FLT DECK FOR ALL FLT, REGARDLESS IF PARTICIPATING IN THE TRIAL OR NOT.)

2021-07-14 12:542021-09-30 23:59

NOTAM

CYKZ

(G1275/20 NOTAMN
A) CZYZ B) 2009100901 C) PERM
E) AMEND PUBLICATIONS: MANDATORY IFR ROUTES: LOCATION TO LOCATION:
CYHU L DEP TO KDET A160 RNAV: ROUTE OF FLIGHT TO READ: KESKA
SAVEX KANUR TUKIR T614 ILUSI YYZ LETOR PICUP GIGGY ARR)

2020-09-08 16:18

METAR

CYKZ

LWIS CYKZ 070100Z AUTO 28013G19KT 17/12 A2988=

2021-09-07 01:00

NOTAM

CYKZ

(J4501/21 NOTAMN
A) CYKZ B) 2109071000 C) 2109081000
E) TWY D CLSD.)

2021-09-06 22:192021-09-08 10:00

NOTAM

CYKZ

(J4304/21 NOTAMR J2589/21
A) CYKZ B) 2108281710 C) 2111261700EST
E) UNLESS APPROVED BY AP MANAGER,
FLT PROHIBITED BTN: 2300 LOCAL (0300Z) AND 0600 LOCAL (1000Z)
INSTEAD OF: 0000 LOCAL (0400Z)
MEDEVACS EXEMPTED)

2021-08-28 17:10

NOTAM

CYKZ

(J4261/21 NOTAMR J2606/21
A) CYKZ B) 2108261433 C) 2109301800EST
E) NDB RWY 21 (GNSS): NDB MINIMA TO READ: 1380 (730) 2 1/4)

2021-08-26 14:33

NOTAM

CYKZ

(J4260/21 NOTAMR J2605/21
A) CYKZ B) 2108261432 C) 2109301800EST
E) AD CHART: DEP PROC RWY 21 TO READ: 1/2 REQUIRES MNM CLIMB
GRADIENT OF 300FT/NM TO 1400. NO RIGHT TURN BLW 1400)

2021-08-26 14:32

NOTAM

CYKZ

(J4259/21 NOTAMR J2604/21
A) CYKZ B) 2108261431 C) 2109301800EST
E) AD CHART: DEP PROC RWY 15 TO READ: 1/2 - NO LEFT TURN BLW 1300)

2021-08-26 14:31

NOTAM

CYKZ

(J4258/21 NOTAMR J2603/21
A) CYKZ B) 2108261430 C) 2109301800EST
E) ALL SID PROC: RWY 21: ADD NO RIGHT TURN BLW 1400)

2021-08-26 14:30

NOTAM
CYKZ

(J4257/21 NOTAMR J2602/21
A) CYKZ B) 2108261430 C) 2109301800EST
E) ALL SID PROC: RWY 15: ADD NO LEFT TURN BLW 1300)

2021-08-26 14:30

NOTAM
CYKZ

(J2967/21 NOTAMR J1333/21
A) CYKZ B) 2106281810 C) 2109201800EST
E) RNAV (GNSS) RWY 03: LNAV MINIMA TO READ:
CAT A AND B: 1200 (577) 1 3/4: CAT C AND D: NOT AUTHORIZED)

2021-06-28 18:10

NOTAM
CYKZ

(J0790/21 NOTAMN
A) CYKZ B) 2103021100 C) PERM
E) AMEND PUBLICATIONS: BUILDING 435038N 0792536W APRX 10390FT BFR
THR 03 AND 11350FT NW EXTENDED RCL. 320FT AGL 998FT AMSL. LGTD,
PAINTED.)

2021-03-01 14:06

NOTAM
CYKZ

(J0789/21 NOTAMN
A) CYKZ B) 2103021100 C) PERM
E) AMEND PUBLICATIONS: MULTIPLE CRANES WITHIN 332FT RADIUS CENTRED
ON 435040N 0792537W APRX 10230FT BFR THR 03 AND 11500FT NW
EXTENDED RCL. 343FT AGL 1021FT AMSL. LGTD, PAINTED.)

2021-03-01 14:04

NOTAM
CYYZ

(G1338/21 NOTAMR G1337/21
A) CYYZ B) 2108121508 C) 2110072359EST
E) QUEENSWAY (TORONTO/LBP INTL) NDB ZYX 368KHZ U/S)

2021-08-12 15:08

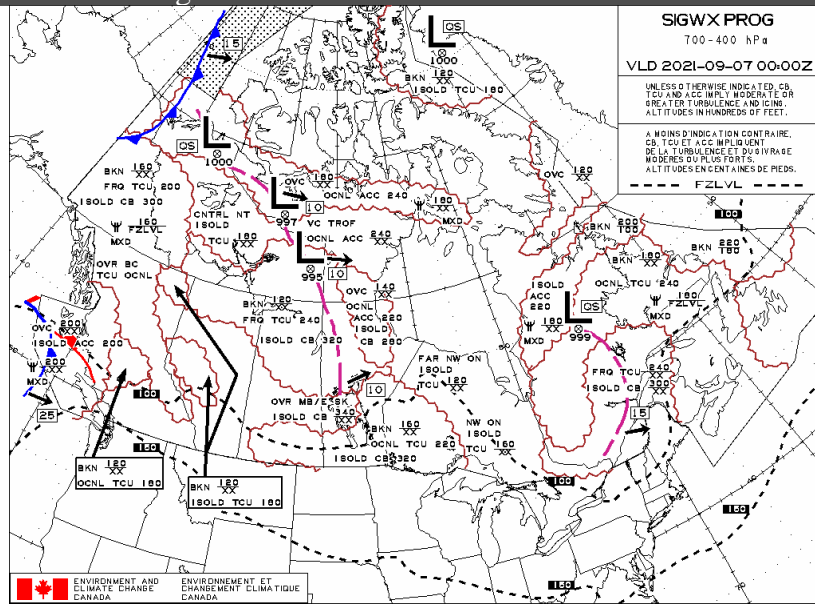
NOTAM
CYZD

(J0036/19 NOTAMN
A) CYZD B) 1910100901 C) PERM
E) AMEND PUBLICATIONS: NEW MOBILE CRANE WITHIN 171FT RADIUS CENTRED
ON 434637N 0792157W (APRX 4.8NM ENE AD). 314FT AGL 797FT AMSL.
NOT LGTD, NOT PAINTED.)

2019-10-10 02:46

Significant Weather
Mid Level Canada

Significant Weather / Mid Level / Canada



06 0600
06 1200
06 1800

07 0000