

Controlled Airspace And Restricted Areas In Uganda

PRESENTATION BY
AIR TRAFFIC MANAGEMENT (ATM)
TO
DRONE STAKEHOLDERS AWARENESS WORKSHOP JULY 2019

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Definitions

- **Airspace:** Portion of the atmosphere controlled by a country above its territory;
- **Controlled airspace.**

An airspace of defined dimensions within which air traffic control service is provided in accordance with the airspace classification.

- Controlled airspace is a generic term which covers ATS airspace Classes A, B, C, D and E as described in Annex 11, of the Chicago Convention
- Controlled airspace established to protect flight paths of aircraft

Controlled area includes;

- Control areas are delineated so as to encompass sufficient airspace to contain the flight paths of aircraft under Air traffic Control
- **All Airspace Extending upwards from 1500ft** is controlled and uncontrolled Else where
- **Includes all ATS Flight routes**
- Differing ATC service given depending on location in relation to Airport or Airway
- More Stringent Requirements around Airports and along Flight routes
- Additional Airspaces established around Airports to protect Arriving and departing ac

Controlled Airspaces In Uganda

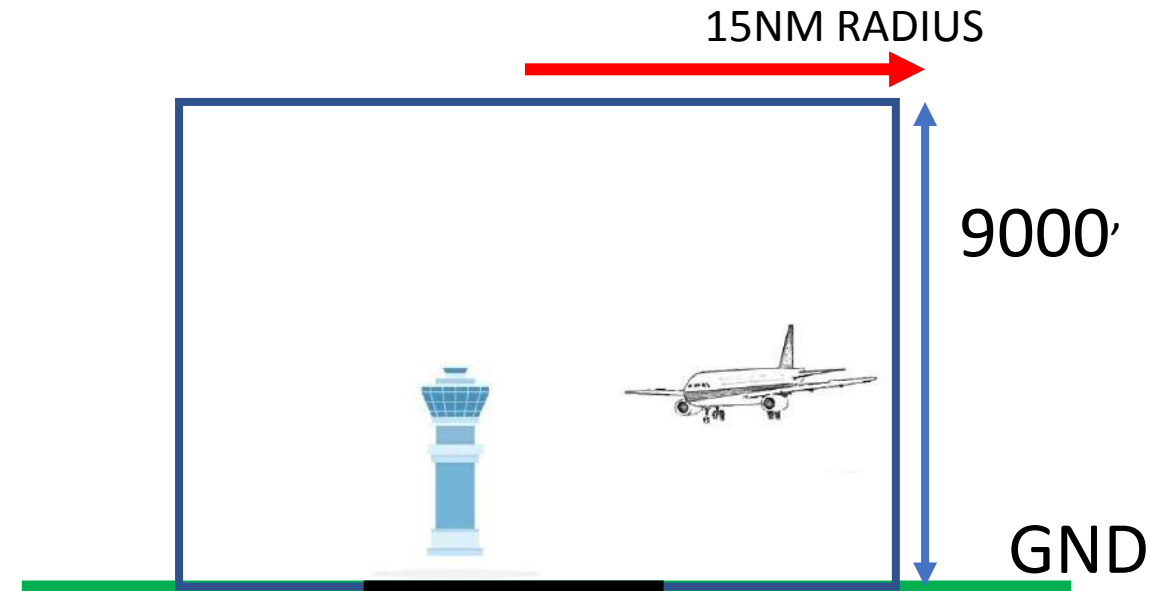
- **Control Zones(CTR)**

A controlled airspace extending upwards from the surface of the earth to a specified upper limit.

- Encompasses airspaces not within Control areas (below 1500)

- CTRs established at Entebbe and Soroti

- Radius 15NM, GND- 9000'

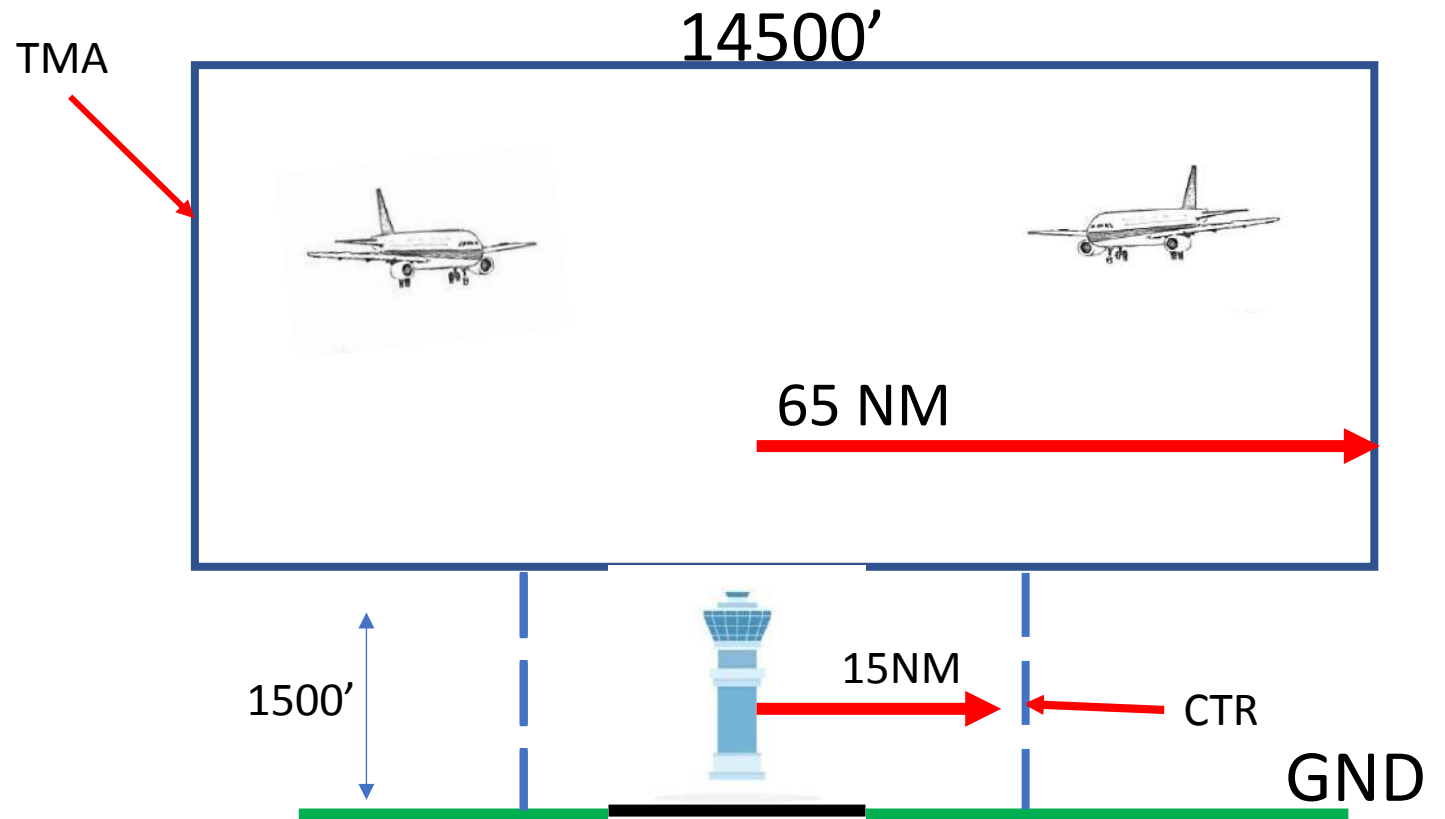


TMA – terminal manoeuvring area

- In Uganda, Designed around and centred on Entebbe Airport with a lateral limit of 65NM

- Approach service (Climb to cruise and descent for landing facilitated here)

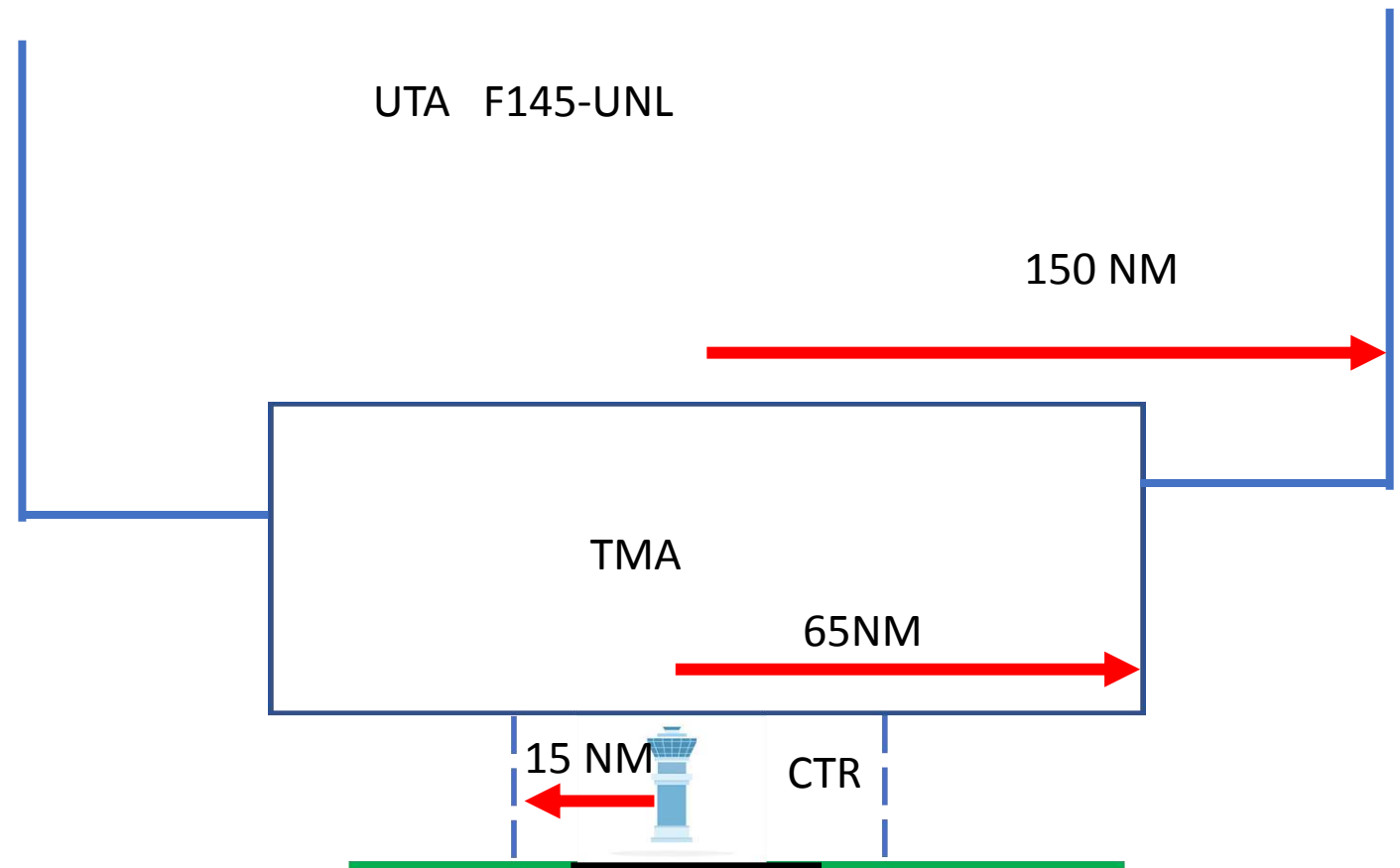
It usually is situated on top of a control zone and provides protection to aircraft climbing out from the airport.



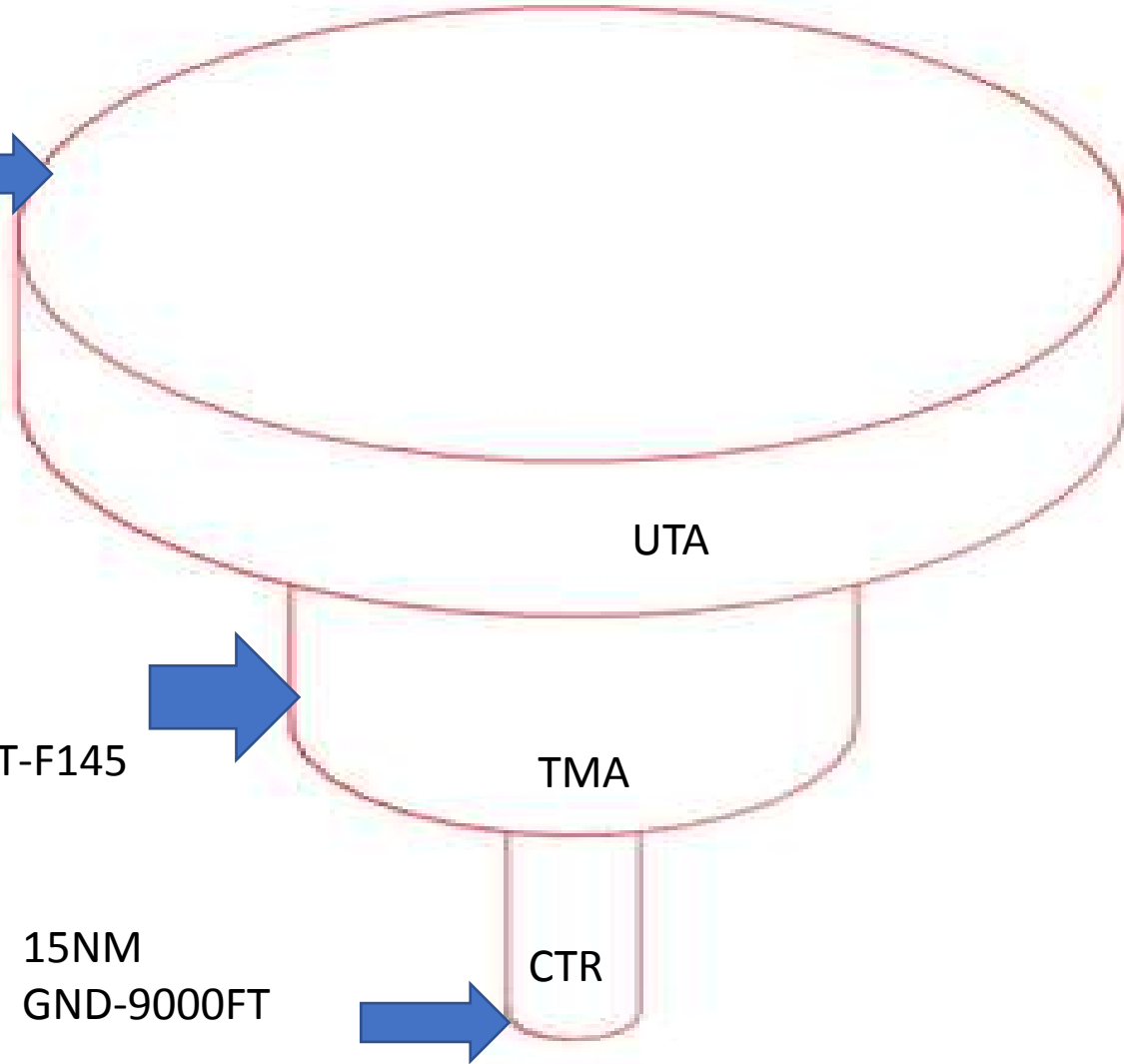
Upper Terminal Area (UTA)-Uganda FIR

Radius of 150NM centred on Entebbe

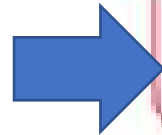
- From FL145 – UNL
- Realistically, beyond 150NM and Below FL145, less restrictions due to communication Challenges



150 NM
F145-UNL



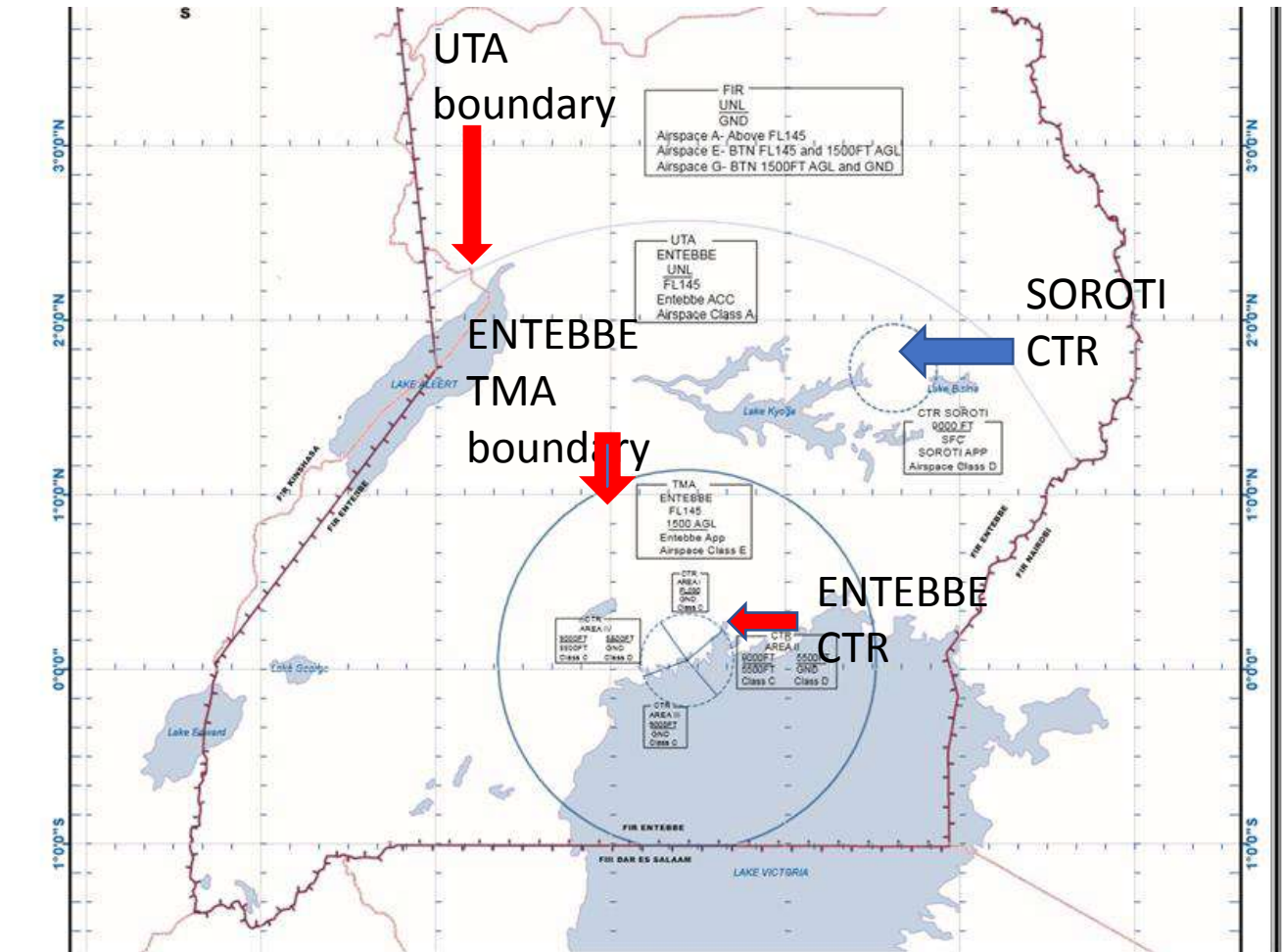
65NM
1500FT-F145



15NM
GND-9000FT

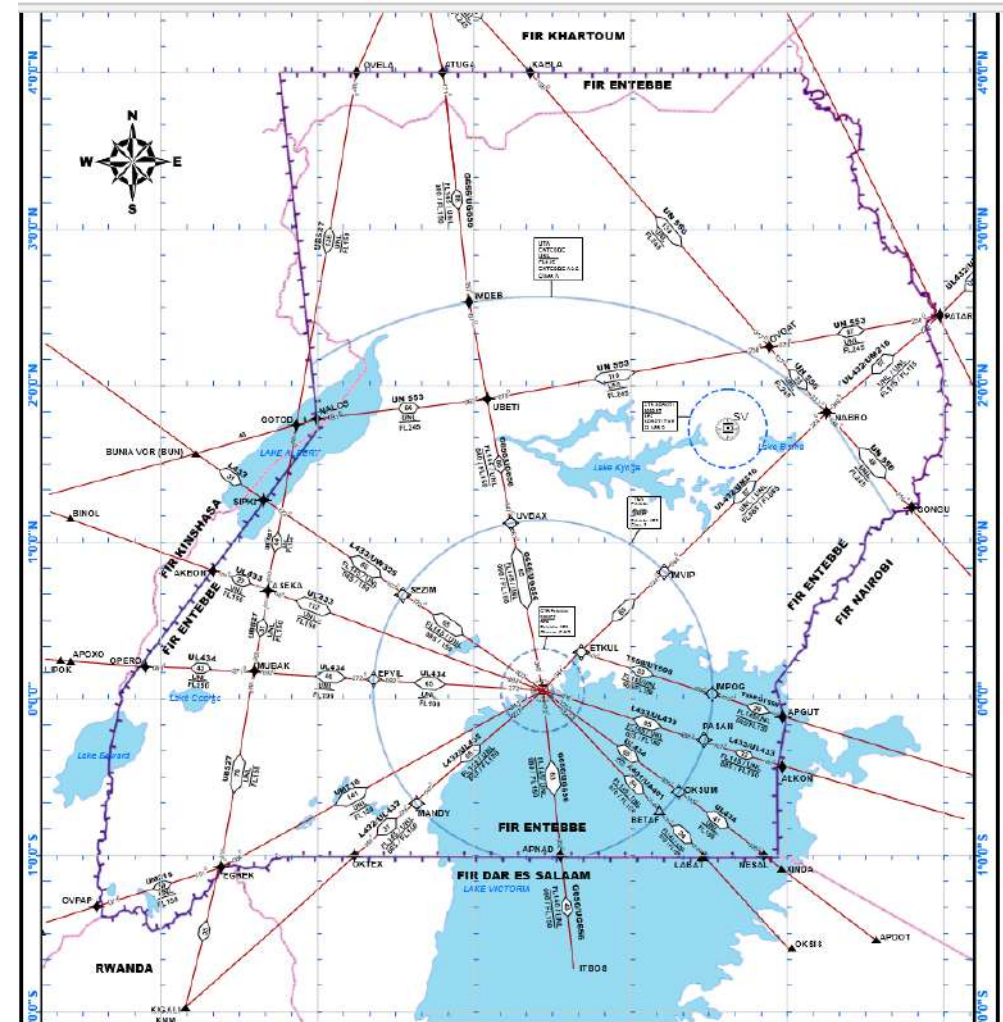


Entebbe Control Areas MAP depiction of CTR, TMA and UTA in Ugandan Airspace



ATS Routes In Ugandan Airspace

All ATS routes and
their Protected
Airspaces are
controlled Areas



Flight Restrictions -

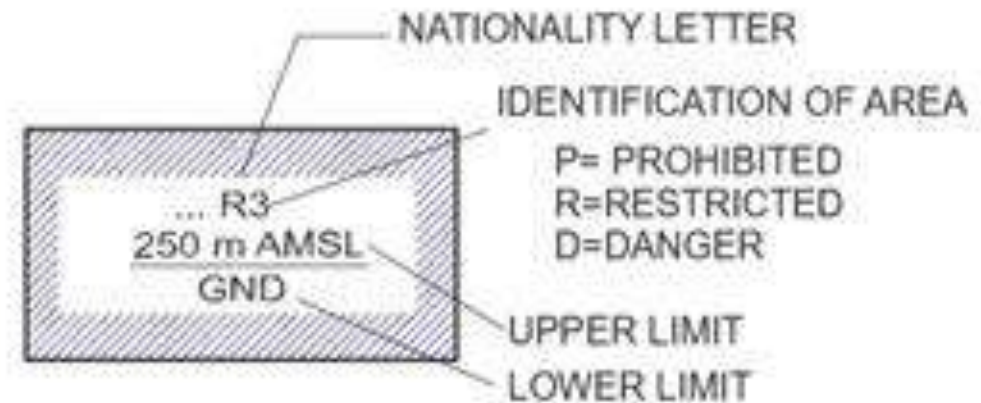
- **Restricted area.** An airspace of defined dimensions, above the land areas or territorial waters of a State, within which the flight of aircraft is restricted in accordance with certain **specified conditions**. (level or time..)
- **Danger area-** airspace of defined dimensions where activities dangerous to flight of aircraft may exist at Specified times.
- **Prohibited Area-**Portion of Airspace where Flight is prohibited

Depiction of restrictions On Charts

HUD- Danger Areas

HUP- Prohibited Areas

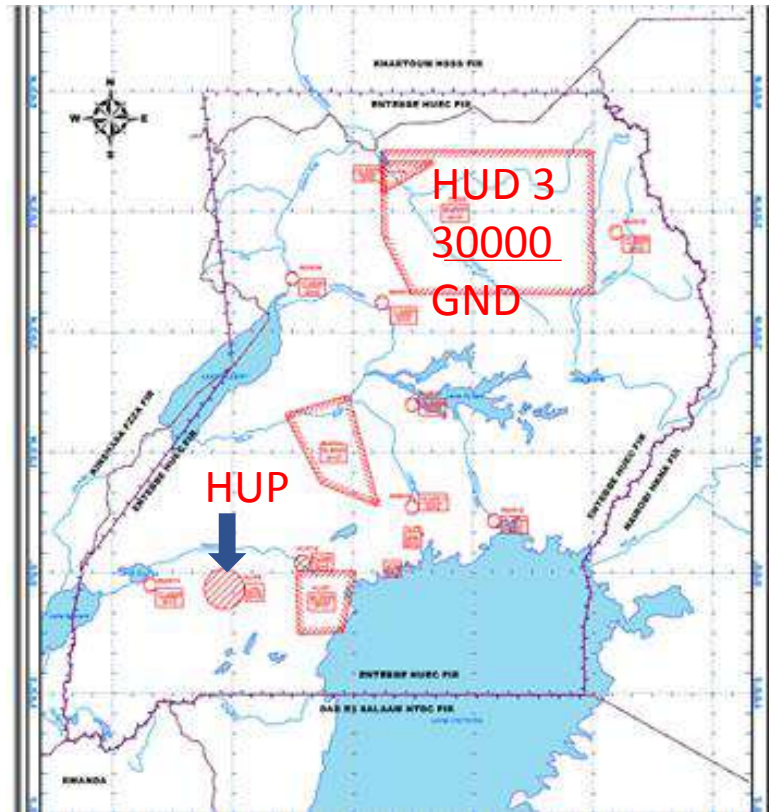
HUR- Restricted Areas



Other Flight Restrictions

- Temporary Prohibited Areas/ Restricted areas
Established at the request of Security Agencies
Occasionally Notified through **NOTAM**
Enforced by ATM through Pilot Controller
Communication
Usually $\geq 5\text{NM}$, GND – UNL; lasts days at a
time

HUP, HUD & HUR In the Ugandan Airspace



Notification Of Flight Restrictions

- Published in the Uganda Aeronautical Information Publication (AIP)- Permanent
- Notices to Airmen – Temporary restrictions
- Flying over known restricted Airspace is an offence

Conclusions

- The Ugandan Airspace is complex . For Drone operations to be effectively managed, a number of issues have to be addressed:
- Regulation and it's enforcement.
- Investment in Surveillance to monitor compliance
- Streamlined coordination procedures amongst the various stakeholders.
- Creation of awareness among the public about the danger posed by drones to aviation
- Protection of aviation at all times

Thank you