

Operations Planning Process – Intelligence Preparation of the Operating Environment(IPOE) – Steps 1 and 2



DPKO & DFS/ITS - UN Peacekeeping PDT Standards, Specialized Training Material for Staff Officers 1st Edition 2011



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Supporting Staff Work

Staff Analysis
Staff Checks & Estimates

Outline
Support Plans

Detailed
Analysis,
Staff Checks
& Estimates

Refined
Support Plans

Detailed
Analysis,
Staff Checks
& Estimates

Detailed
Support Plans

The Operational Planning Process

OPP Stage 1 – Initiation

Planning
Data

Wng O

OPP Stage 2 – Orientation

Review of
Situation

Mission
Analysis

Mission
Analysis Brief

Supp Wng O

Mission
Statement

OPP Stage 3 – COA Development

COA
Development

Information
Brief

COA
Comparison
Wargame

CONOPS

Decision
Brief

Supp Wng O

Synch Matrix
Draft

DST Draft

HPTL Draft

EGM

OPP Stage 4 – Plan Development

DST

Plan
Wargame

ISTAR Plan

Synch Matrix

Op O

HPTL

EGM

Intelligence Preparation of the Battlespace

IPB Step 1 – Define the Battlespace

AI

Initial PIRs

IPB Step 2 – Describe Battlespace Effects

Air Avenue of
Approach

Terra

Wx Matrix

Light Table

IPB Step 3 – Evaluate the Threat

Enemy COA
Draft

ID Enemy CoG

IPB Step 4 – Determine Threat COAs

Event Matrix

Draft
ISTAR Plan

Enemy COA
Detailed

Updated HVTL

OPP Stage 5 – Plan Review

Frag O

CONPLAN

IPB Informs All Stages of the OPP

Legend

Staff
Process

Staff
Product

Data

Comd
Process

Comd
Product

Process
Flow

Next Task



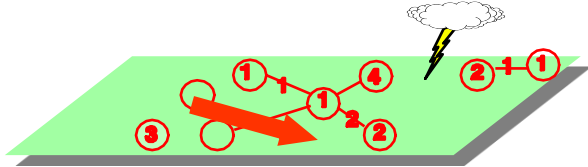
What is IPOE?

- A systematic, continuous process of analyzing the threat and environment in a specific geographic area
- It gives the Commander the ability to maximize their efforts at critical points in time and space by:
 - Determining the threat's likely courses of action (COAs)
 - Describing the environment the unit operates within and the effects of the environment on the unit

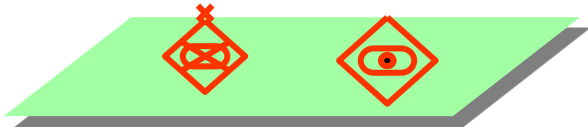




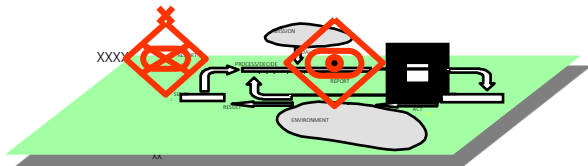
Step 1 - Define the Operational Environment



Step 2 - Describe the Environmental Effects



Step 3 - Evaluate the Threat



Step 4 - Determine Threat COAs



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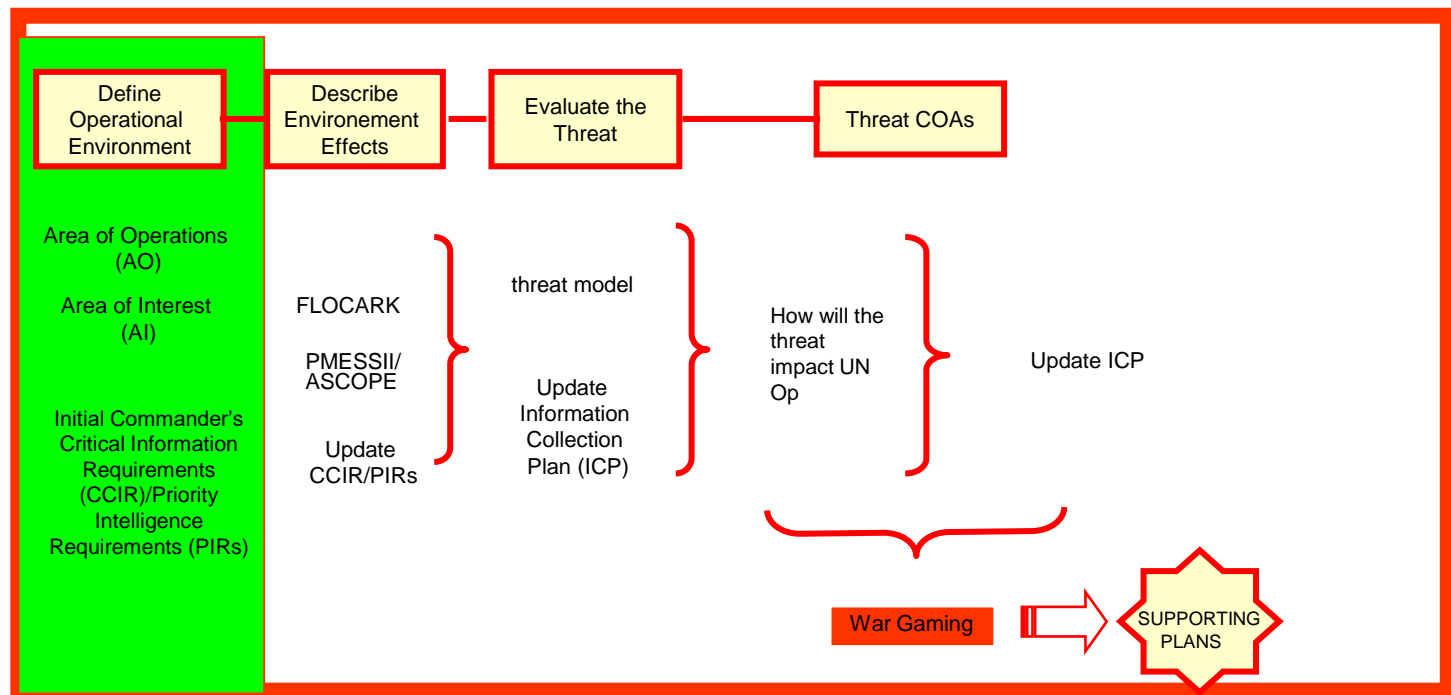


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Step 1 - Define the Operational Environment



IPOE – Step 1

- Define the Operational Environment
 - Identifies characteristics of the battlespace which will influence friendly and threat operations
 - Establishes the limits of the areas important for operations
 - Identifies gaps in current information holdings



Define the Operational Environment– IPOE Step 1

- Area of Operations (AO)
- Area of Interest (AI)



Define the Operational Environment– IPOE Step 1

- Area of Operations
 - Area where a commander has responsibility and authority to conduct operations
 - Limits are normally dictated by boundary lines assigned by higher HQ
 - The AO is defined in terms of the four dimensions of width, depth, height and time as required by the mission
 - Evaluation of the area is very thorough and detailed



Define the Operational Environment– IPOE Step 1

- Area of Interest
 - Area in which information is required to permit successful planning
 - The command's AI is generally larger than the AO
 - Limits of the AI are based on:
 - the extent of the threat;
 - geographical location of other activities;
 - future missions; and
 - time
 - Can include land, sea, and/or air
 - May also include neutral countries



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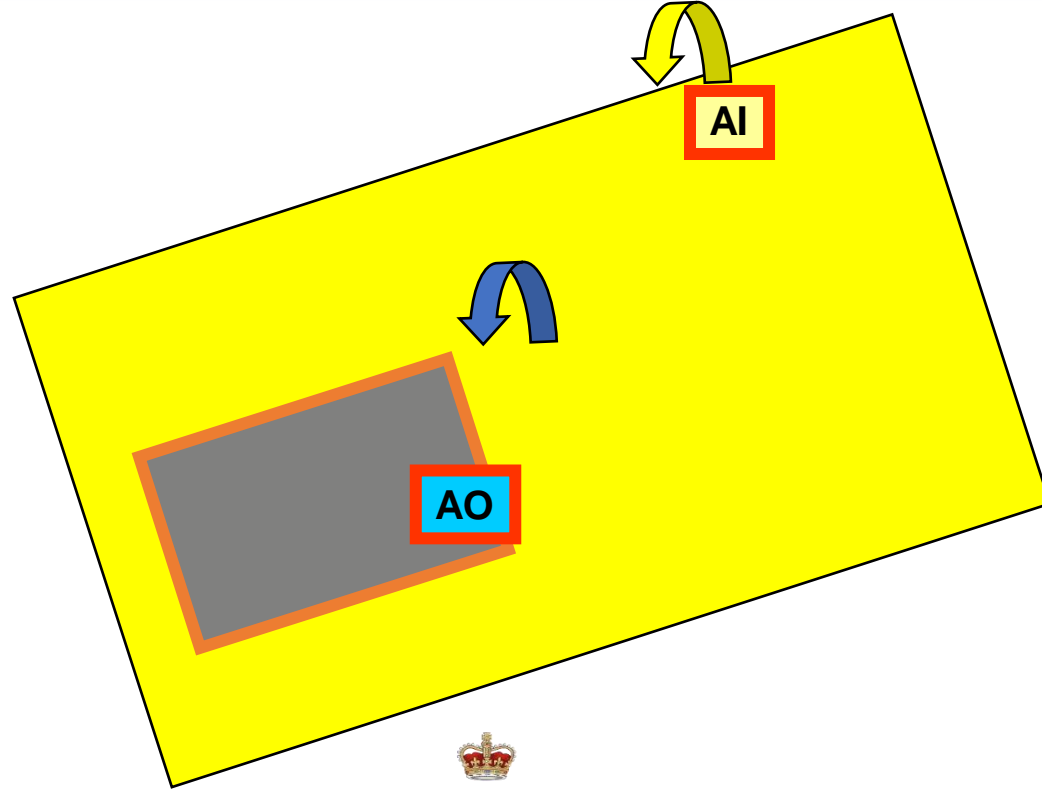


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Define the Battlespace – Intelligence Preparation of the Operating Environment Step 1



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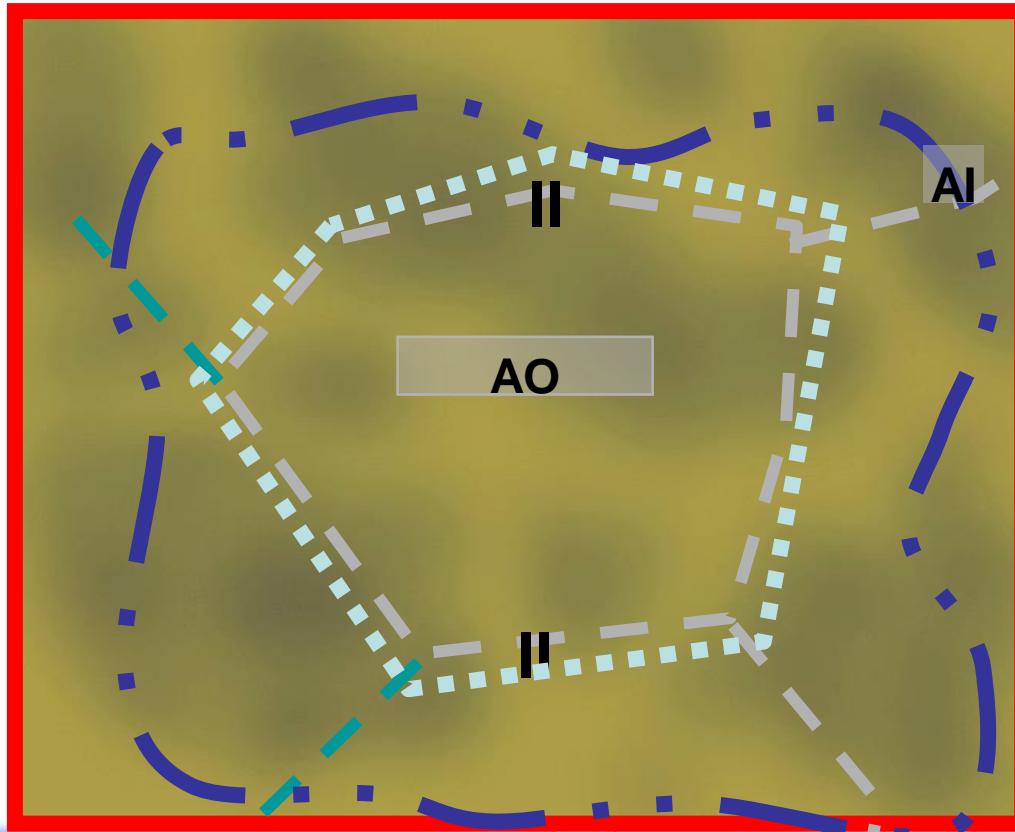


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Peace Support Operations



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Define the Operational Environment– IPOE Step 1

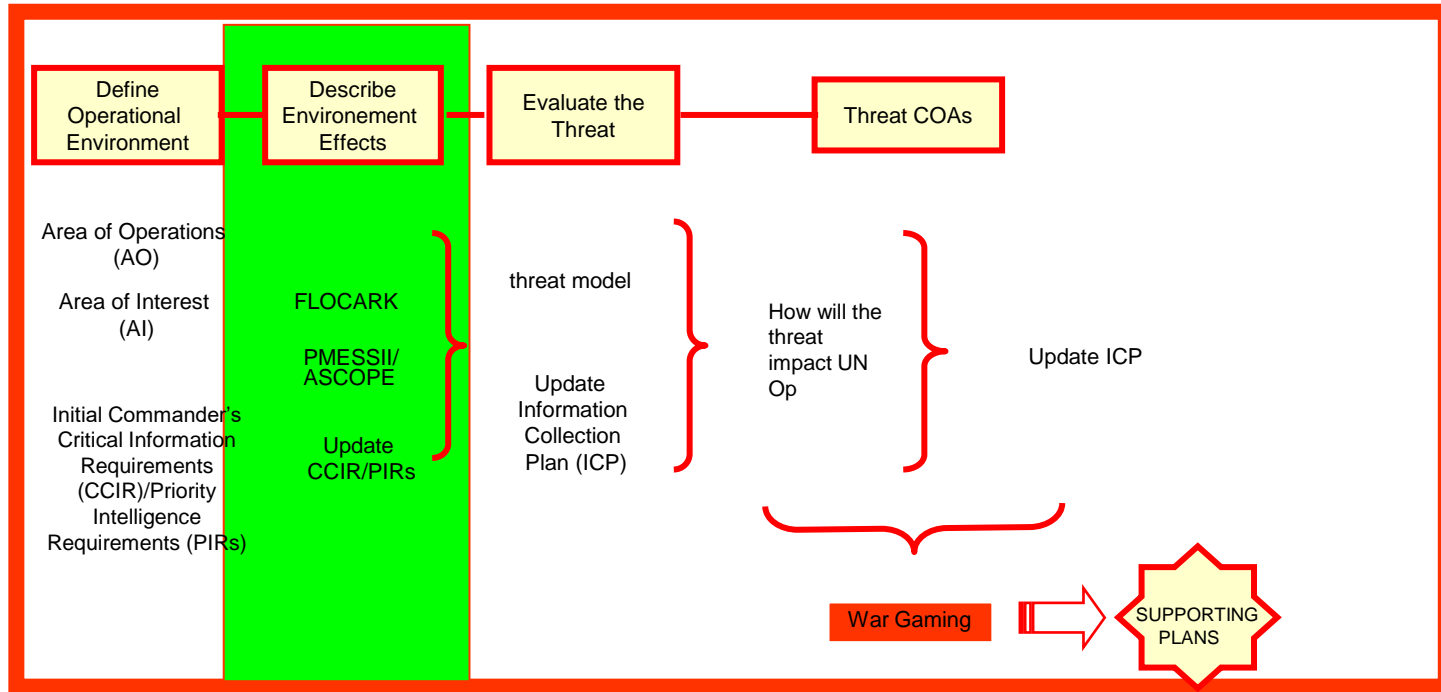
- What do we not know?
 - Commander's Critical Information Requirements (CCIR) – Crucial elements of information identified and required by the Commander that directly affect decision-making and successful execution of operations
 - Priority Intelligence Requirements (PIRs) – PIRs are the intelligence requirements that the Commander has identified and stated as a critical need for operations planning



Define the Operational Environment– IPOE Step 1

- A I - Identify and locate all outside influences on the operation. Consider political groups, media, and third nation support to the belligerents of the conflict
- Types of Activity to Consider
 - Identify the legal mandate, geographic boundaries, and other limitations upon both the peacekeeping forces and the belligerent forces
 - Identify the pertinent demographic and economic issues. These might include living conditions, religious beliefs, cultural distinctions, allocation of wealth, political grievances, social status, or political affiliations
 - Identify the best case and worst case timelines of the operation

Define the Operational Environment Effects– IPOE Step 2



Define the Environmental Effects– IPOE Step 2

- Describe the Operating Environment Effects
 - The determination of how the Operating Environment affects both threat and friendly operations



Define the Environmental Effects– IPOE Step 2

- Analyze the Operational Environment
 - Terrain analysis
 - Analysis of other characteristics of the OE
 - Weather analysis
- Describe the effects on threat and friendly capabilities and broad COAs



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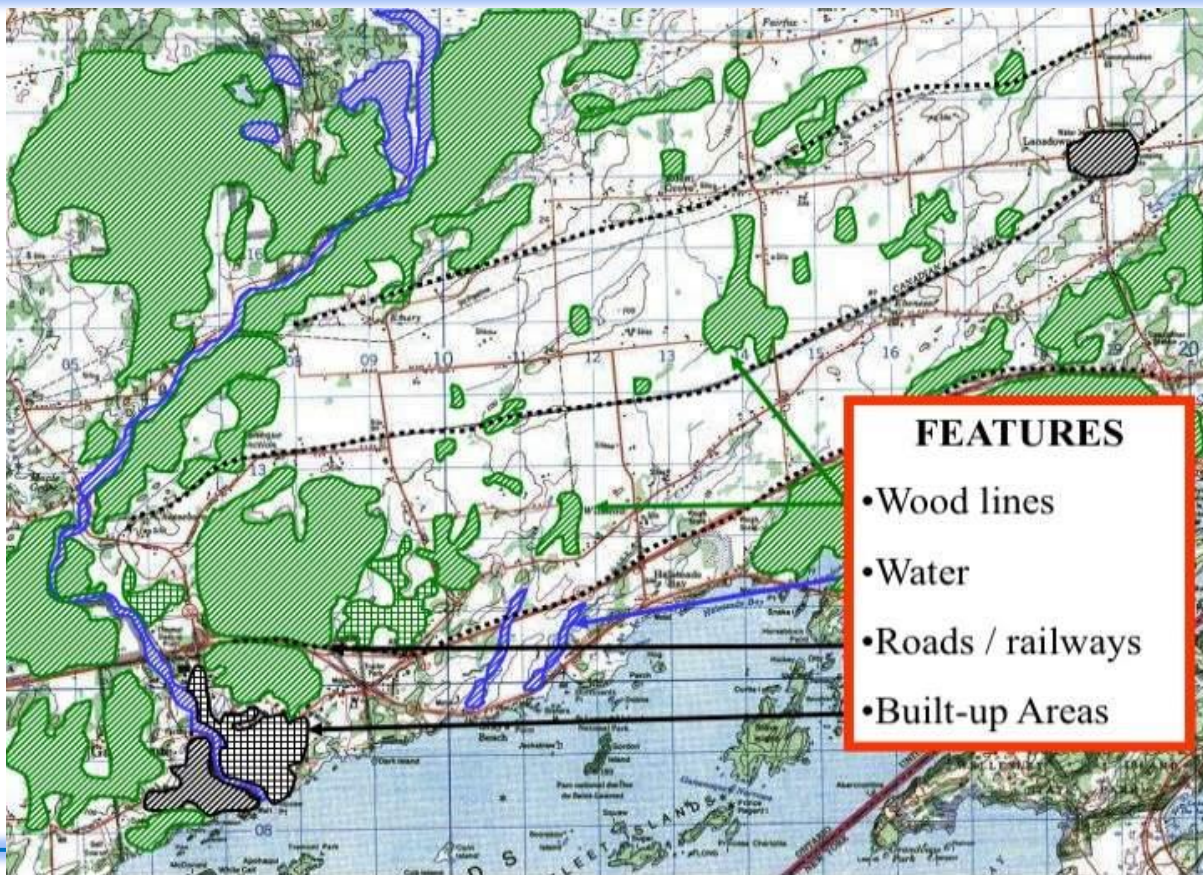


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- Analyze the Military Aspects of the Terrain
 - Features
 - Lanes
 - Objectives
 - Canalizing Ground
 - Approaches
 - Rate Approaches
 - Key Terrain/Vital Ground



Features



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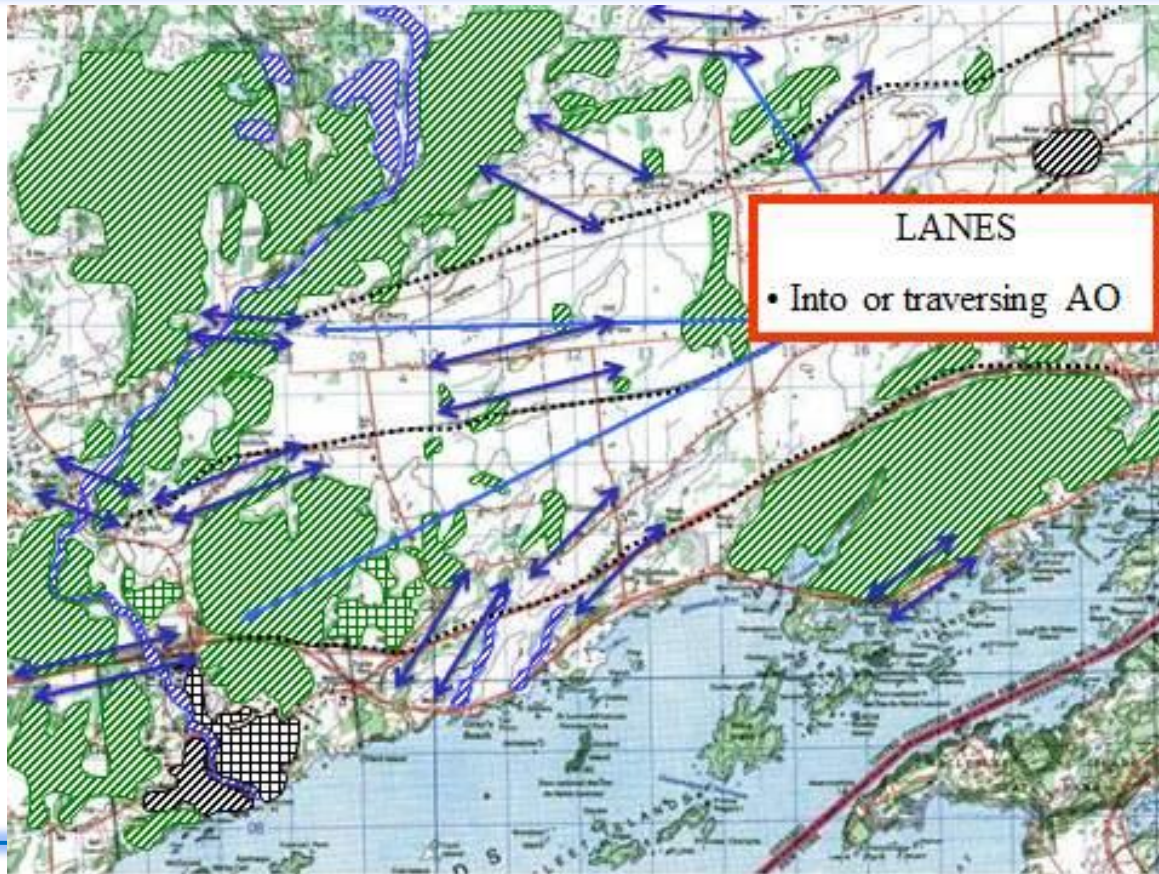


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Lanes



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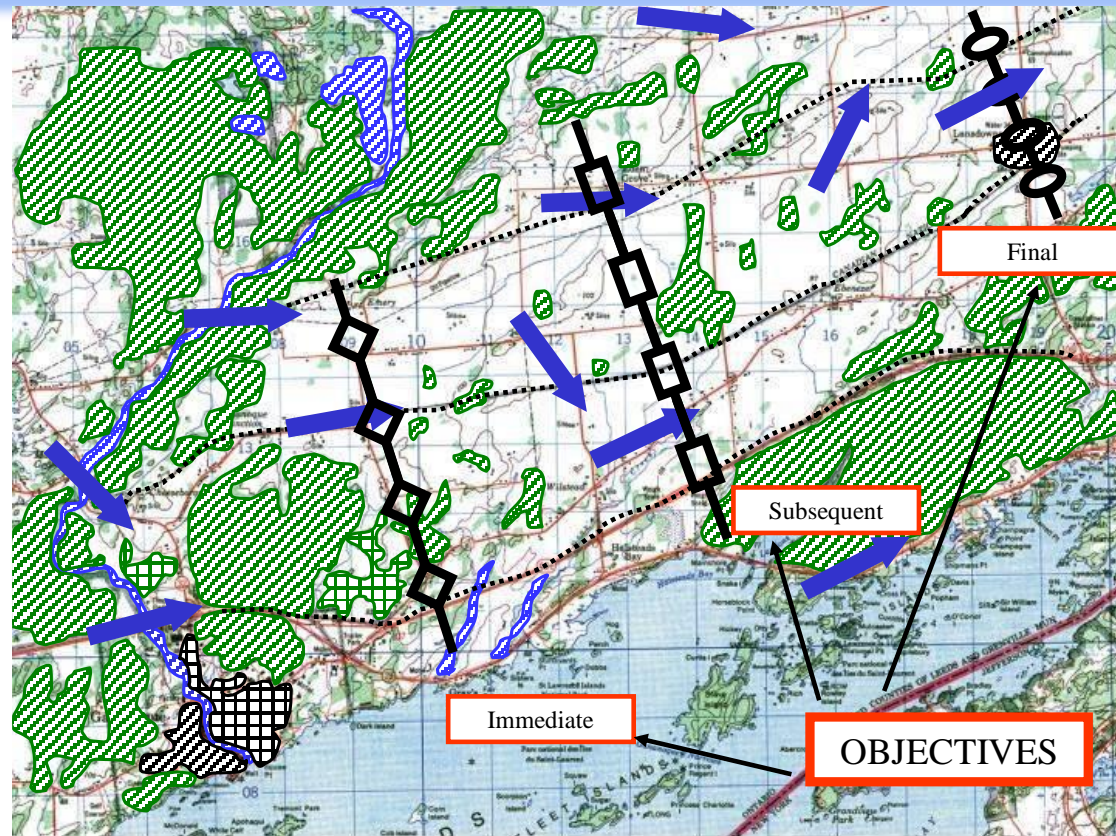


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Objectives



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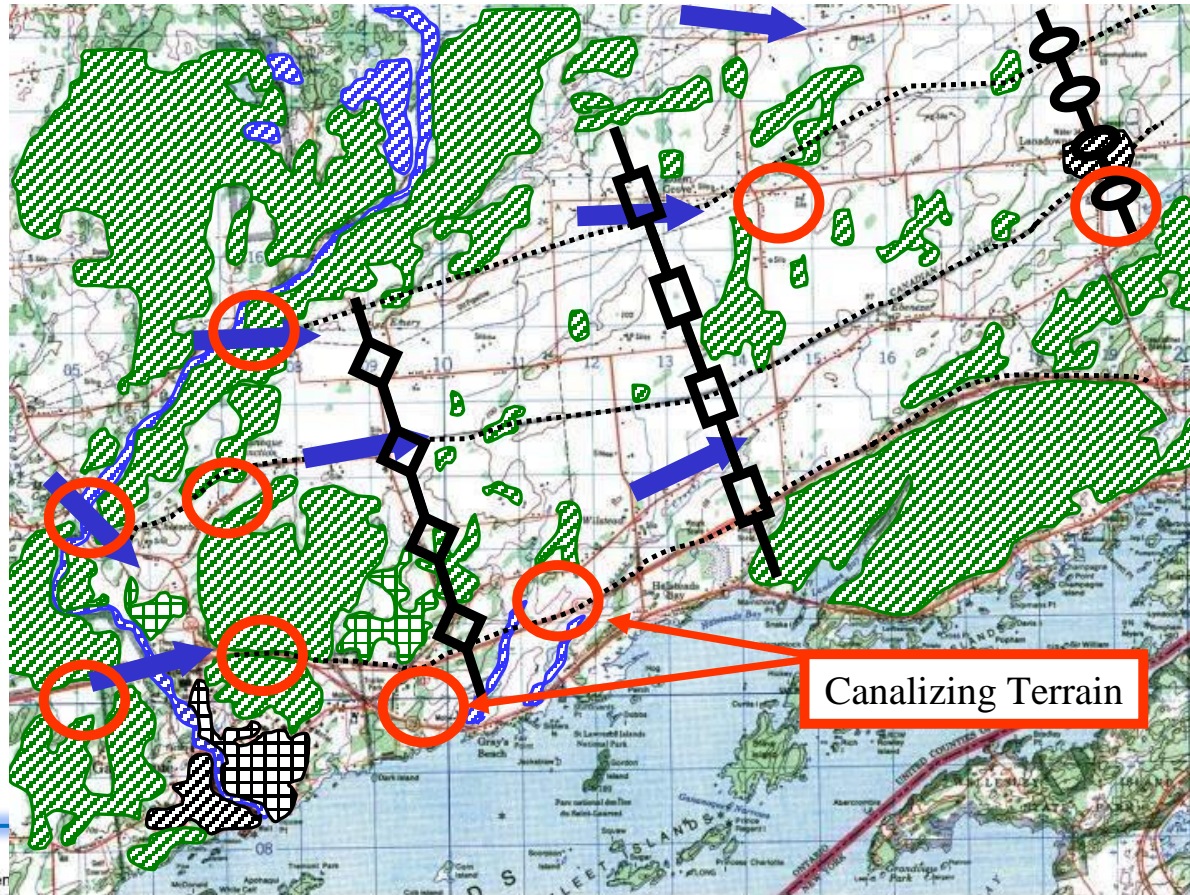


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Canalizing Terrain



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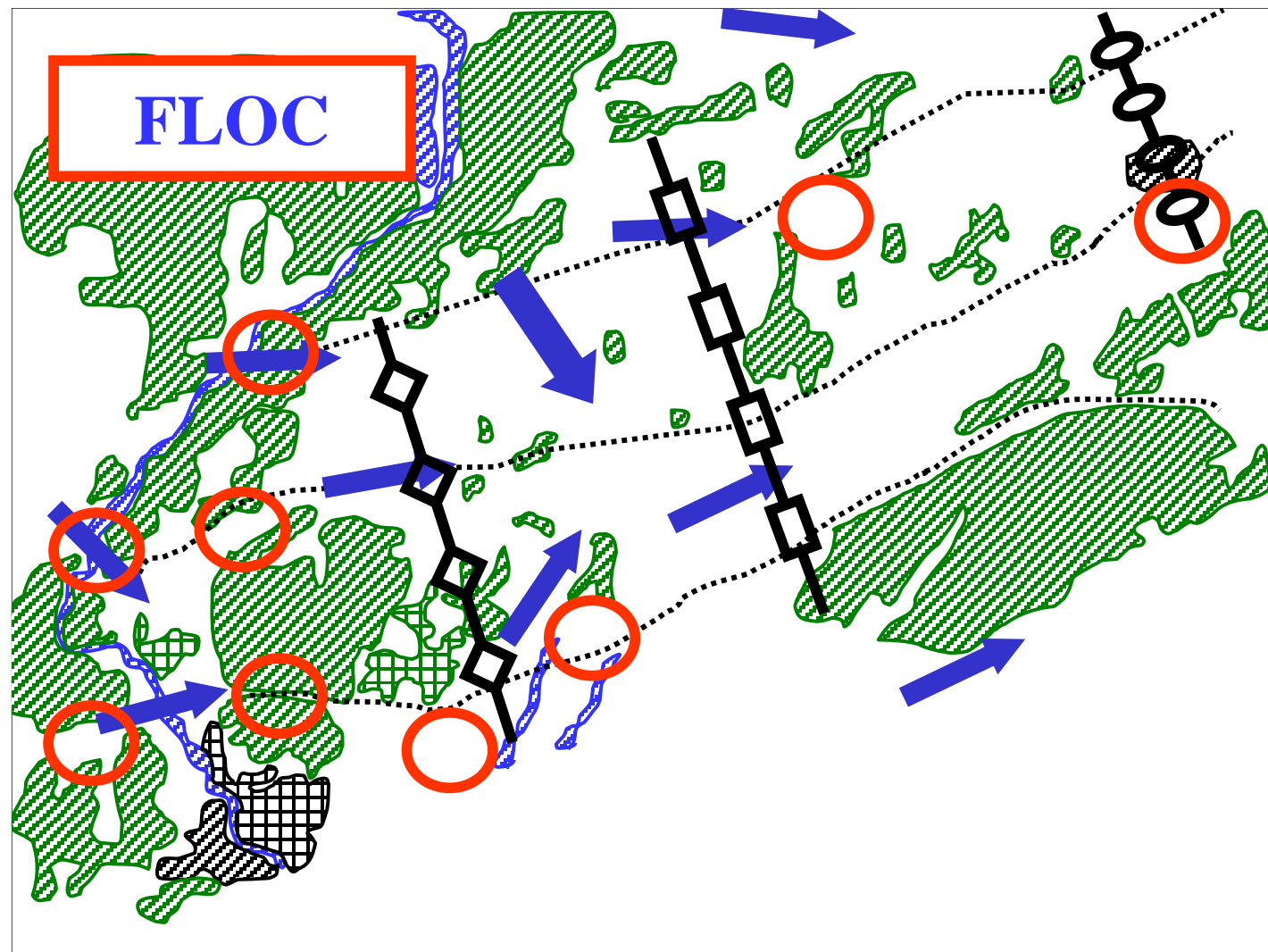
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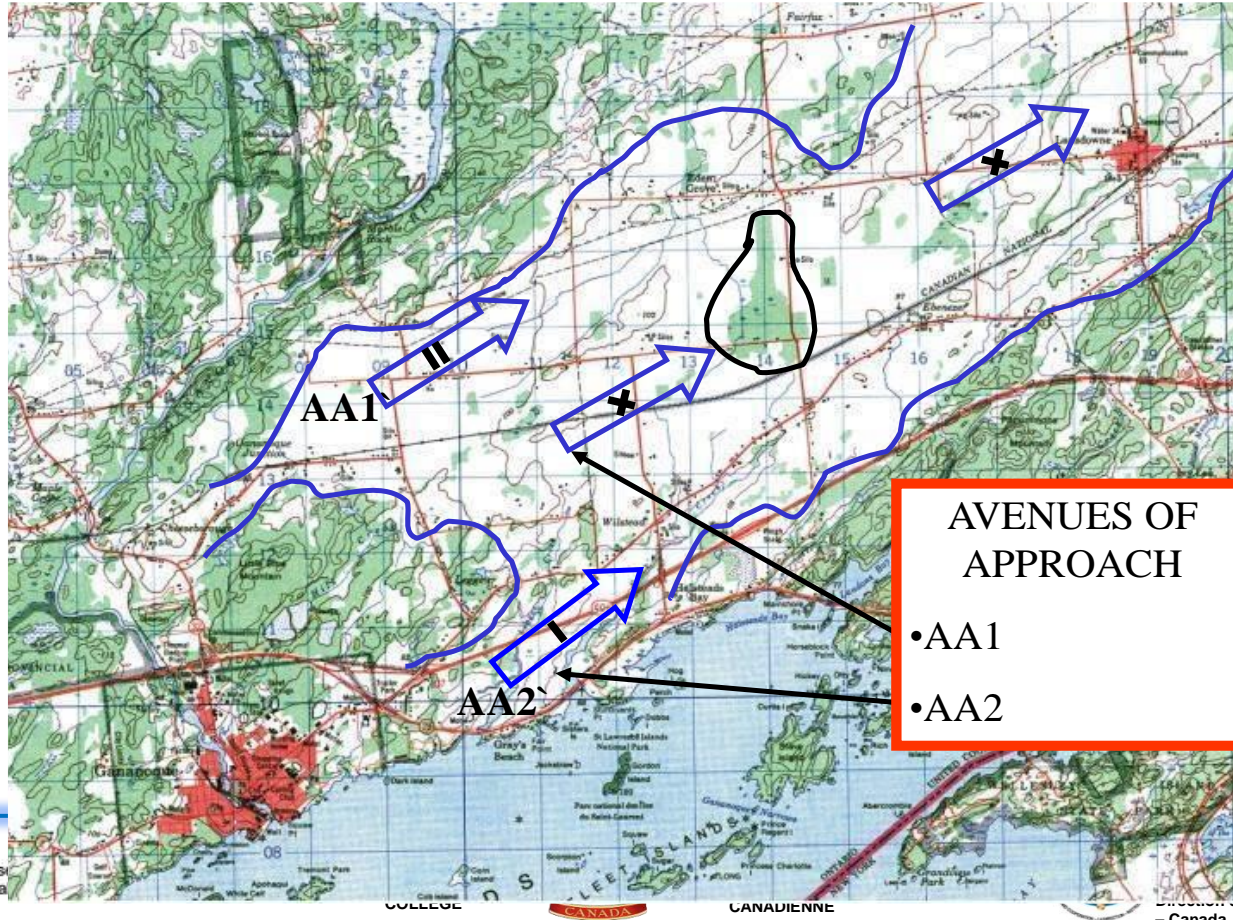
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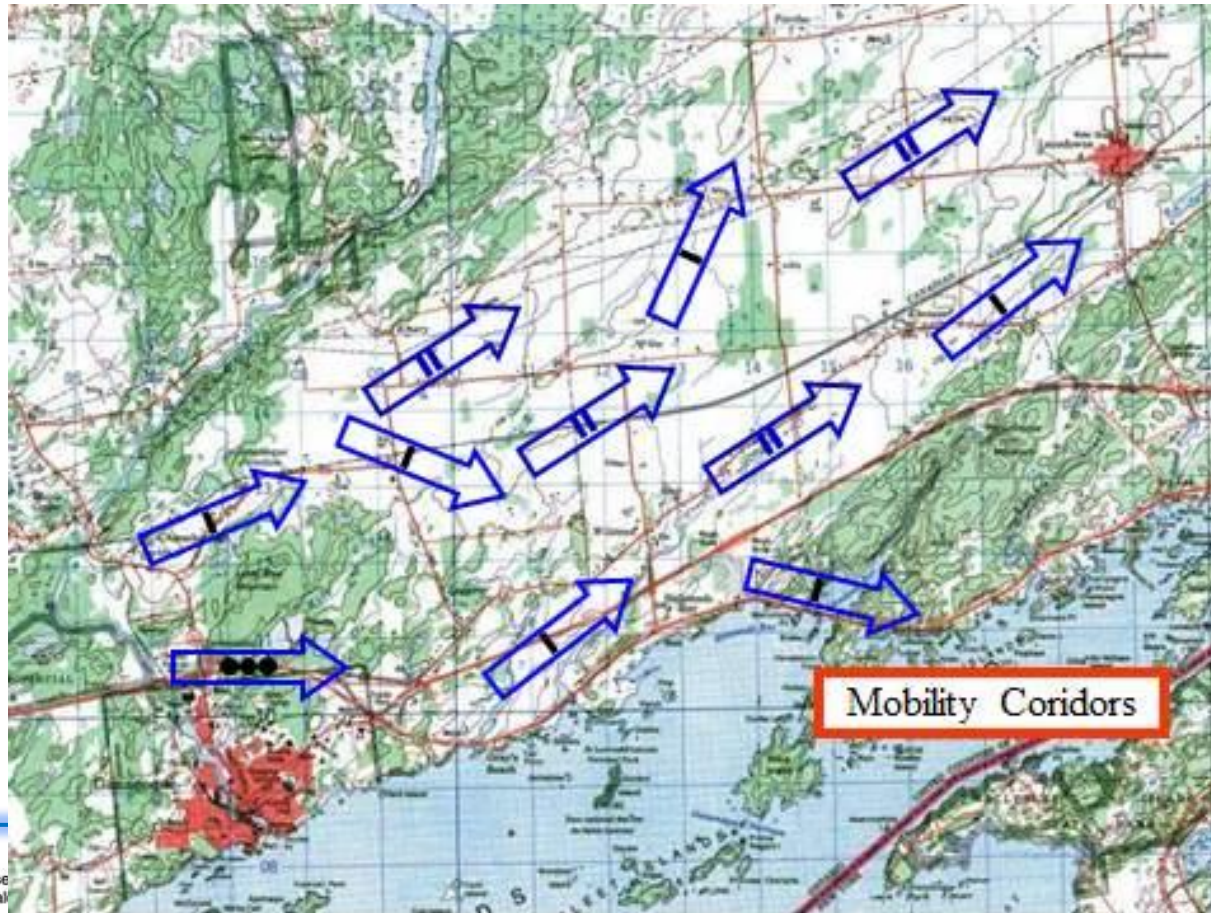
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Commandement et Contrôle
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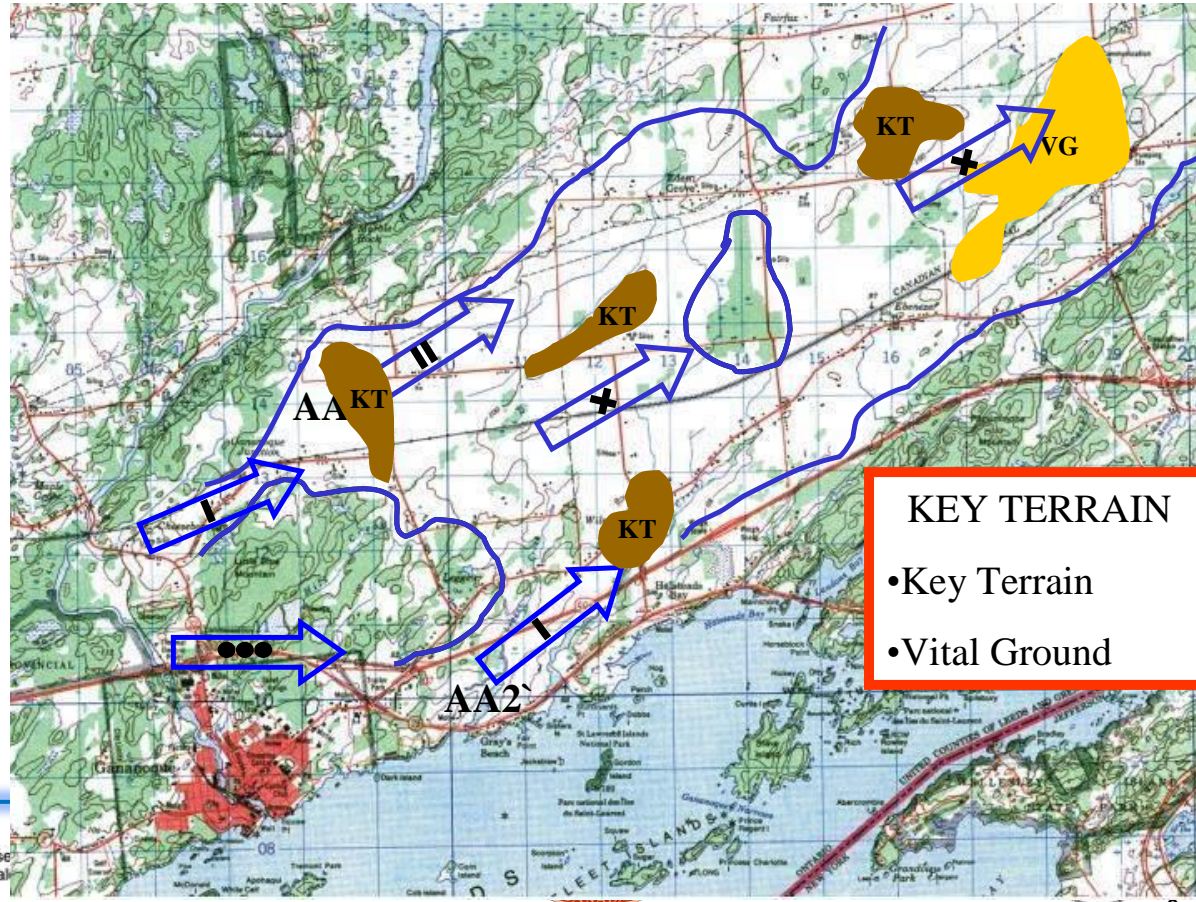
Avenues of Approach



Rating of Approach



Key Terrain/Vital Ground



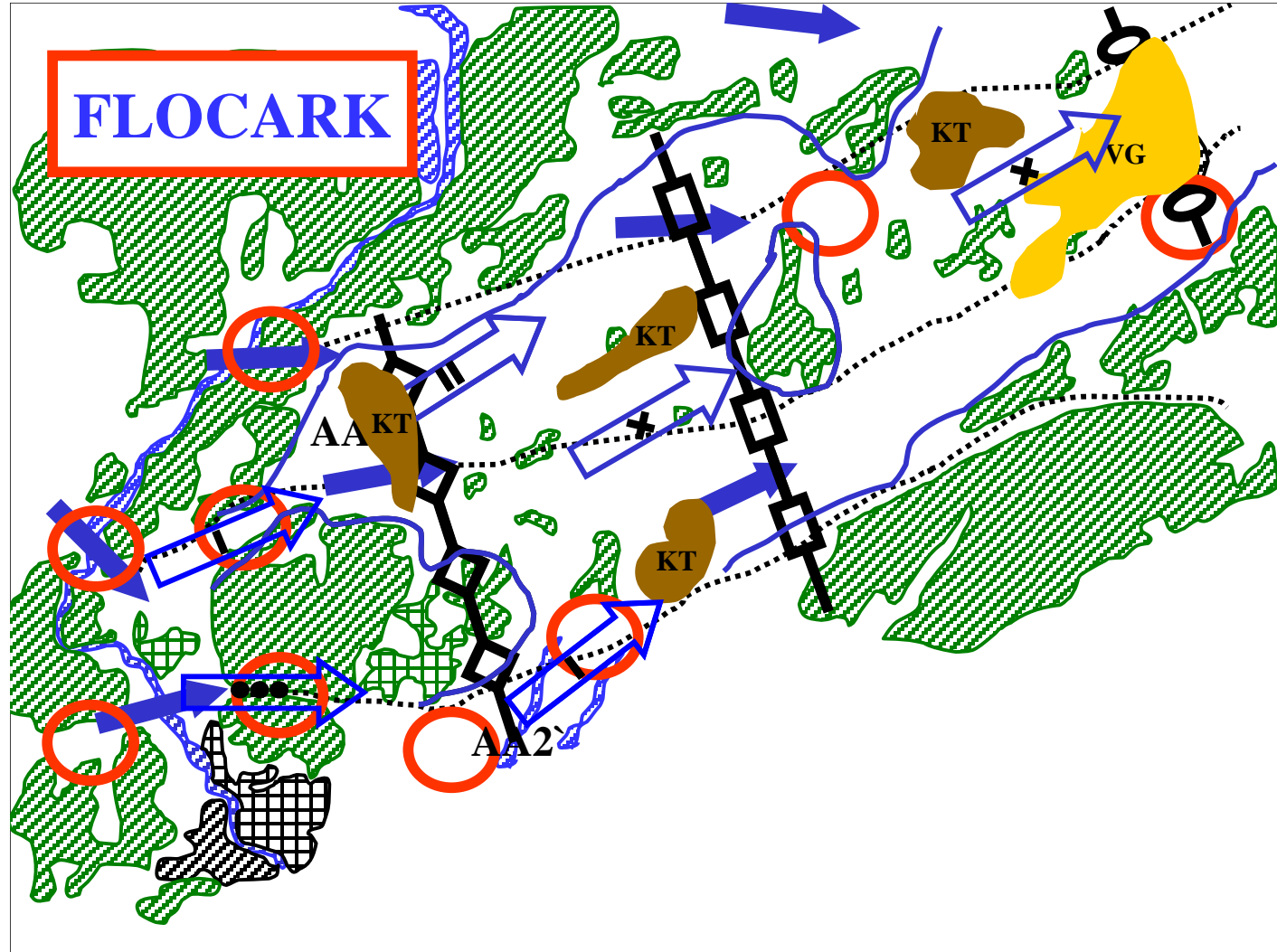
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Terrain Effects

- Why are these effects important?



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Military Aspects of Weather

- Analyze the Military Aspects of Weather
 - Visibility
 - Sunrise, Sunset, Moonrise, Moonset, Cloud Cover
 - Wind
 - Winds of sufficient speed can reduce the operational effectiveness of a force



Military Aspects of Weather

- Precipitation
 - Affects soil trafficability, visibility, and functioning of many electro-optical systems
- Cloud Cover
 - Affects ground operations by limiting illumination and the solar heating of targets
 - Can degrade many surveillance and target acquisition systems

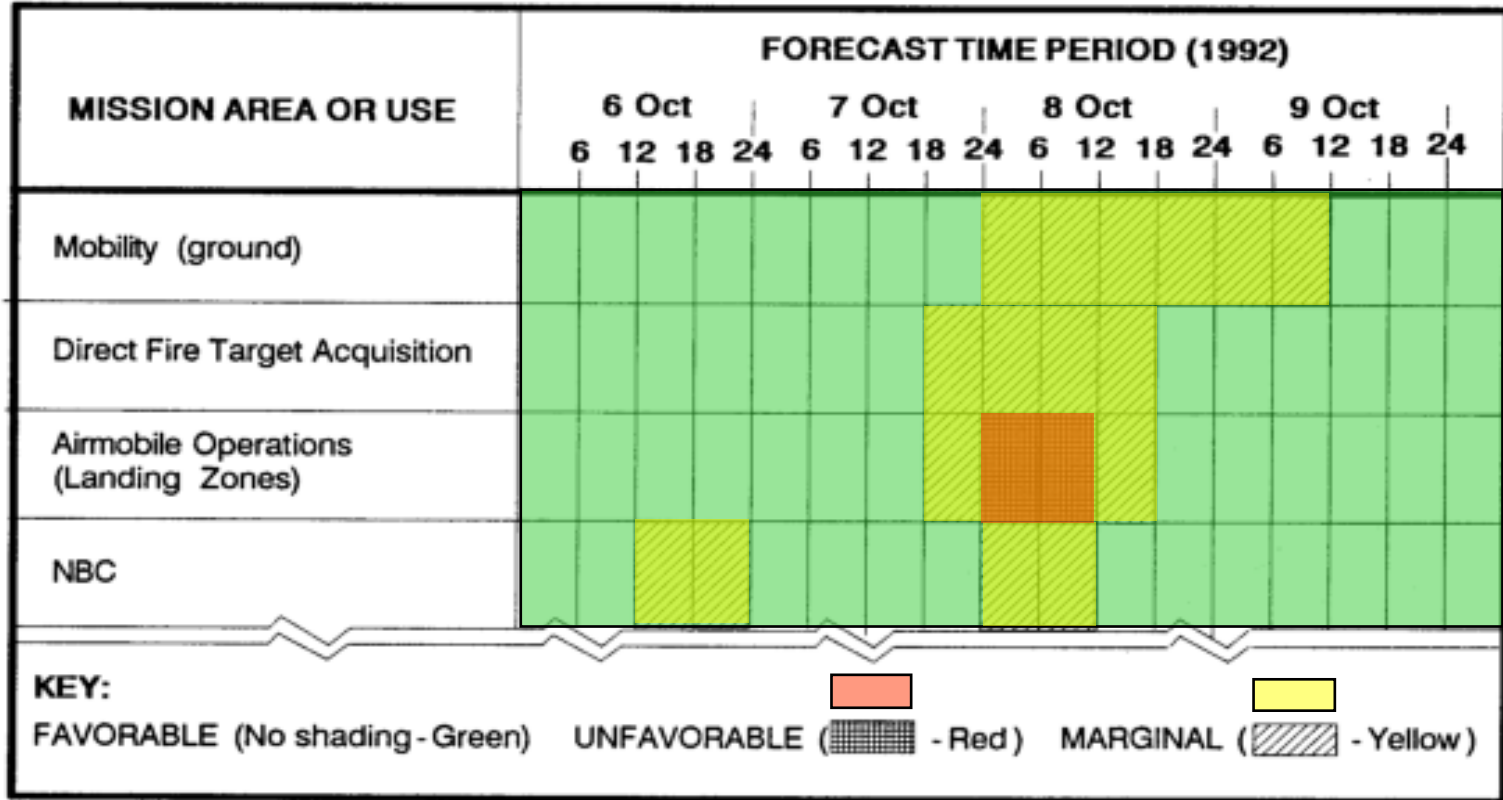


Military Aspects of Weather


- Temperature and Humidity
 - Reduce personnel and equipment capabilities
 - Air density decreases as the temp and humidity increase
 - Weather has both direct and indirect effects on military operations



- Weather Analysis



SEP 20th THURSDAY




A mix of sun and clouds. 40% chance of showers early this afternoon. Wind becoming E 20 km/h this afternoon.
Max 21°C

THURSDAY NIGHT




Becoming cloudy this evening with 60% chance of showers late this evening and overnight. Risk of a thunderstorm overnight.
Min 17°C

SEP 21st FRIDAY





Mainly cloudy, 60% chance of showers or thunderstorms. Wind S 20 km/h increasing to 40 gusting to 70 in the morning.
Max 27°C Min 8°C

SEP 22nd SATURDAY



Sunny.
Max 17°C Min 4°C

| WEATHER IMPACT ON OPERATIONS - KINGSTON | | | | | | | | |
|---|----------------------|------------------------|---------------------|------------------------|--|-----------------------------|----------------------------|--------------|
| VALID FROM: Sep 20th 07h00 until Sep 22nd 07h00 local time | | | | | | | | |
| MISSION/ PLATFORM | SEP 20 0700-1900 | SEP 20/21 1900-0700 | SEP 21 0700-1900 | SEP 21/22 1900-0700 | | | | |
| VEHICULAR MOVEMENT | | | W | | | | | |
| DISMOUNTED MOVEMENT | | | | | | | | |
| PERSONNEL | | | W | | | | | |
| INFRARED SYSTEMS | | P | P | | | | | |
| ARTILLERY | | | W | | | | | |
| HELO OPS (MEDEVAC) | | C | C/W | | | | | |
| FIXED WING | | C | C/TB | | | | | |
| AVIATION TACTICAL | | C | C/TB | | | | | |
| AIR DEFENCE | | C | C/W | | | | | |
| PARADROP | | C | W | | | | | |
| DRONES (MUAS) | | P | P/W | | | | | |
| NBC CHEMICAL | W | W | W | W | | | | |
| V-VISIBILITY P-PRECIPIATION Sd-SNOW DEPTH W-SURFACE WIND T-TEMPERATURE WC-WINDCHILL C-CEILINGS DA-DENSITY ALTITUDE I-ICING TB-TURBULENCE TS-THUNDERSTORM Zr-FREEZING PRECIPITATION H-HUMIDITY CC-CLOUD COVER MI-MILLILUX F-FOG M-MIST | | | | | | | | |
| IMPACT : GREEN = 0% Å 25% YELLOW= EFFECTIVENESS REDUCED TO 25% TO 75% RED= EFFECTIVENESS REDUCED TO 75% AND + | | | | | | | | |
|  | FIRST LIGHT 05h47 | SUNRISE 06h50 | SUNSET 19h07 | LAST LIGHT 20h09 |  | MOONRISE 17h14 (116°) | MOONSET 03h07 (246°) | ILLUM 85% |

Environmental Characteristics

- Characteristics of the Environment
 - Geography, terrain and weather of the area
 - Population demographics (ethnic groups, religious groups...)
 - Political or socio-economic factors
 - Infrastructures
 - Rules of Engagement (ROE)
 - Threat in general terms



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Logistics/Infrastructure

- Logistics Infrastructure
 - Land use pattern
 - Sources of potable water
 - Bulk fuel storage and transport systems
 - Communication systems
 - Transportation means and systems
 - Natural resources, industries and technologies
 - Power production facilities
 - Chemical and nuclear facilities



- Area
- Structures
- Capabilities
- Organizations
- People
- Events



PMESSII

- Political
- Military
- Economic
- Social
- Infrastructure
- Information



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Refined
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Detailed
Support Plans

The Operational Planning Process

OPP Stage 1 – Initiation

Planning Data → Wng O

OPP Stage 2 – Orientation

Review of Situation → Mission Analysis → Mission Analysis Brief
Mission Analysis Brief → Supp Wng O → Mission Statement

OPP Stage 3 – COA Development

COA Development → Information Brief → COA Comparison Wargame
CONOPS → Decision Brief → COA Comparison Wargame
Supp Wng O → Decision Brief
COA Comparison Wargame → Synch Matrix Draft → DST Draft → HPTL Draft → EGM

OPP Stage 4 – Plan Development

DST → Plan Wargame → ISTAR Plan
Plan Wargame → Synch Matrix → Op O → HPTL → EGM

Intelligence Preparation of the Battlespace

IPB Step 1 – Define the Battlespace

AI Initial PIRs

IPB Step 2 – Describe Battlespace Effects

Air Avenue of Approach Terra
Wx Matrix Light Table

IPB Step 3 – Evaluate the Threat

Enemy COA Draft ID Enemy CoG

IPB Step 4 – Determine Threat COAs

Event Matrix Draft ISTAR Plan
Enemy COA Detailed Updated HVTL

IPB Informs All Stages of the OPP

OPP Stage 5 – Plan Review

Frag O CONPLAN

Legend

Staff Process

Staff Product

Data

Comd Process

Comd Product

Process Flow

Next Task



Questions?



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