

# Présentation générale du cours

**AU COEUR DU SYSTÈME D'INFORMATION GÉOGRAPHIQUE**

A chaque point, ligne, surface sont attachés des informations alphanumériques qui donnent une vision très fine du territoire, de son organisation et de son évolution.

**RÉFÉRENTIELS GÉOGRAPHIQUES**

Carte générale IGN  
Orthophotoplan  
Plans topographiques  
Cadastre  
Relief

Une compilation de cartes

Qualité de l'air, propagation du bruit, équipements sportifs, établissements scolaires, parc HLM, zones d'activité, espaces verts, flore, réseau d'eau ou de gaz, etc. Autant de données à rassembler, organiser, qualifier et croiser pour construire un SIG. Celui de la communauté urbaine de Cherbourg compte ainsi une cinquantaine de cartes.

**APPLICATIONS MÉTIERS**

Espaces verts  
Cimetières  
Éclairage public  
Voirie  
POS / PLU

**DONNÉES DU SOUS-SOL**

Eau et assainissement  
Électricité et gaz  
Télécommunications

**Notion de couches de données**

Relation dynamique

ID	ITA_C1	Area PC	ITA_CODE
1	180	215753	Paved Driveway
1	180	017758	Grass or Planted Bed
2	180	180	Paved Driveway
2	180	017759	Grass or Planted Bed
3	180	180	Paved Driveway
3	180	017760	Grass or Planted Bed
4	180	180	Paved Driveway
4	180	017761	Grass or Planted Bed
5	180	180	Paved Driveway
5	180	017762	Grass or Planted Bed
6	180	180	Paved Driveway
6	180	017763	Grass or Planted Bed
7	180	180	Paved Driveway
7	180	017764	Grass or Planted Bed
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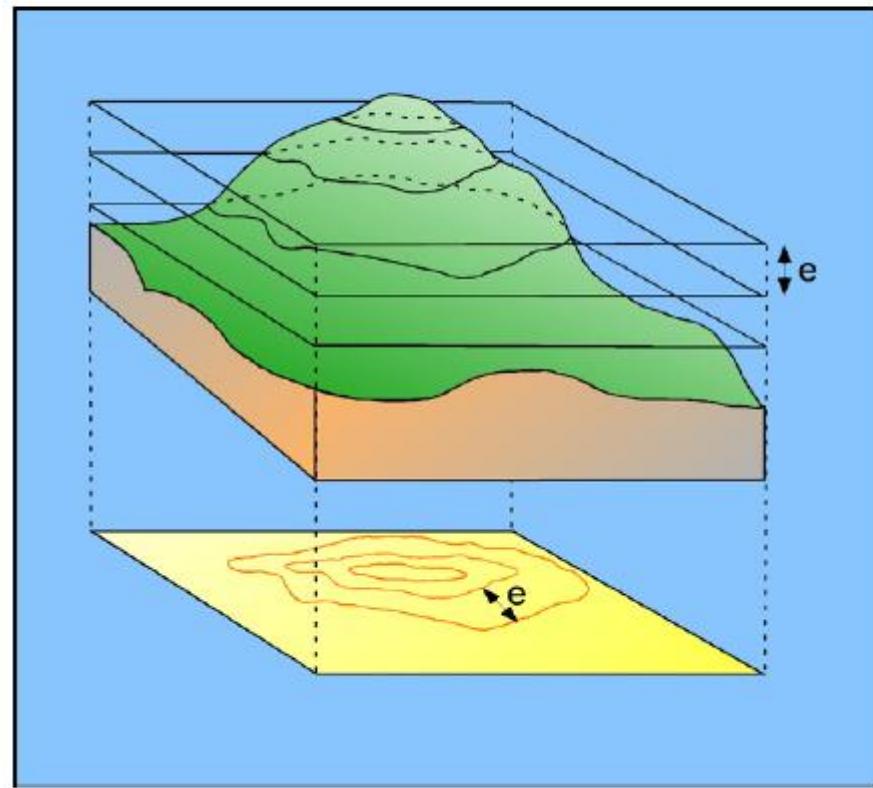
## *Les cartes topographiques*

Carte topo, les courbes de niveau

Intersection entre  
la topographie et  
les surfaces d'altitude  
constante

1 courbe = 1 altitude

Espacement régulier



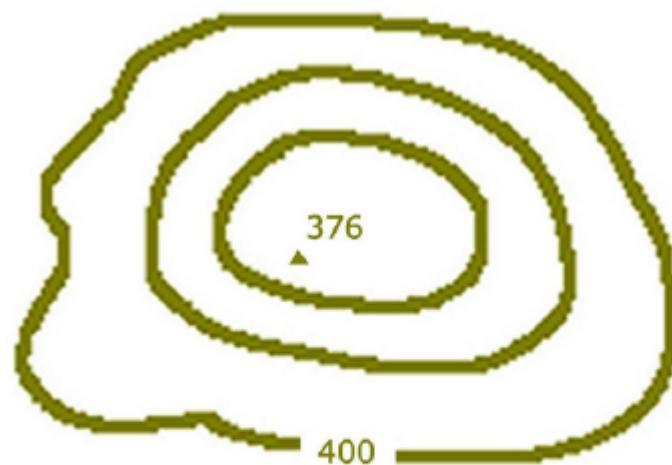
Activer Windo

Accédez aux cours

## *Les cartes topographiques*

- Carte topo, les courbes de niveau

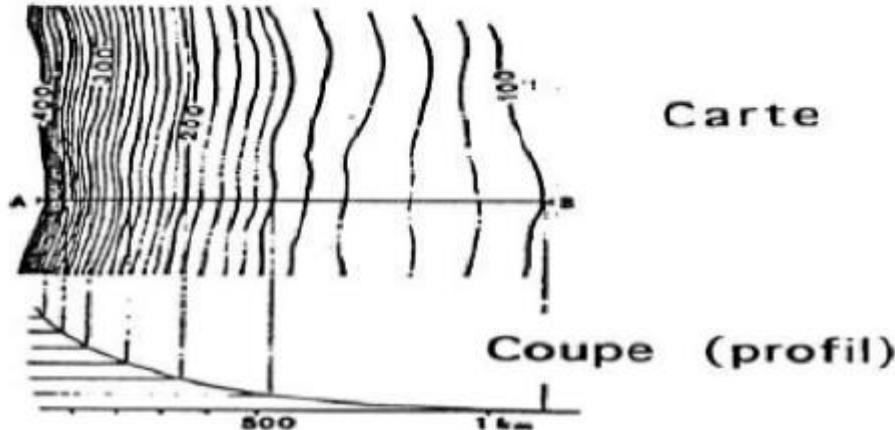
NB : Des creux et des bosses qui peuvent avoir la même forme



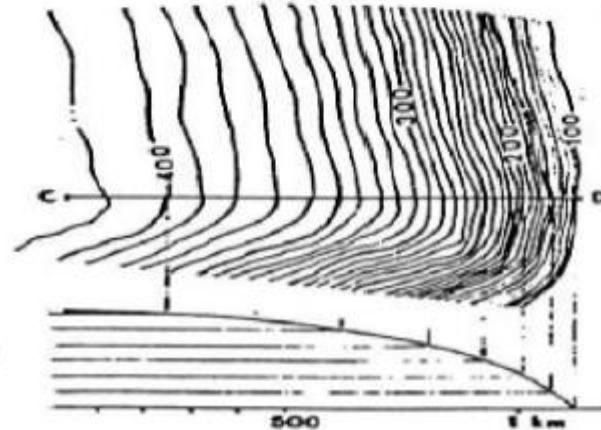
Activer Windo  
Accédez aux para

## *Les cartes topographiques*

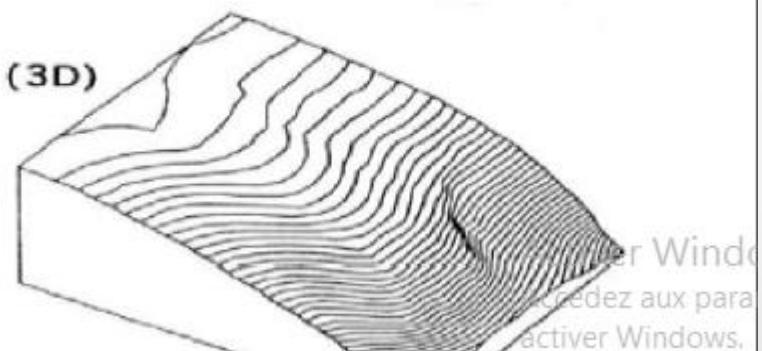
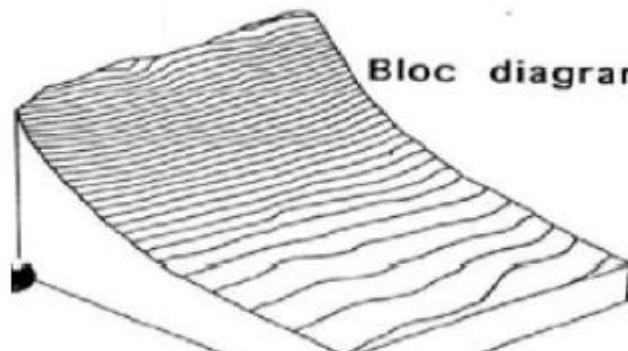
- Lire la topographie et le relief : Pentes douces



Pente concave

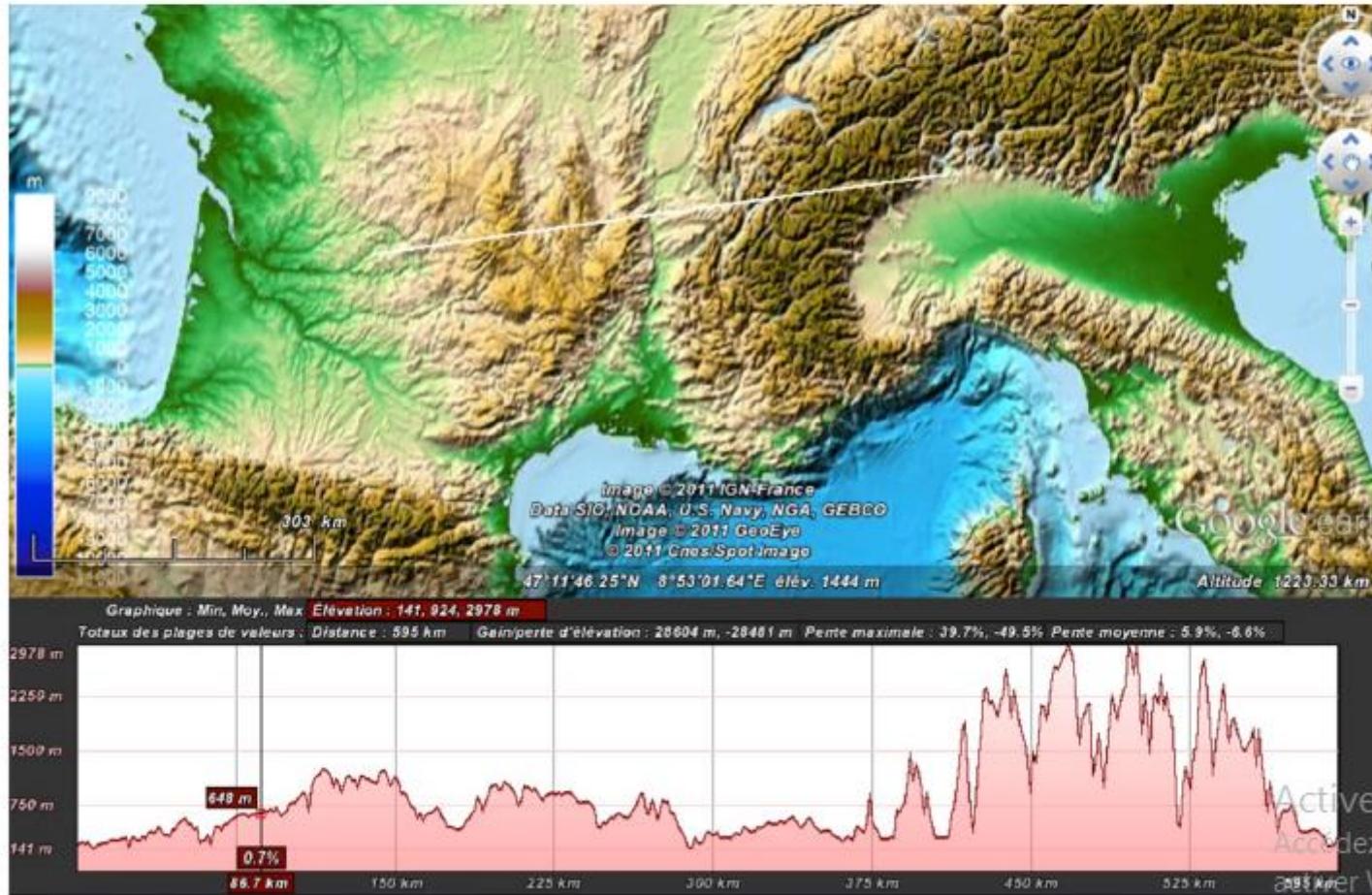


Pente convexe



## Les cartes topographiques

- Réaliser un profil topographique : cf. TD



Une coupe topographique est un graphique qui est tracé à partir d'une carte topographique (à partir de courbes de niveau) et qui représente le relief d'un transect