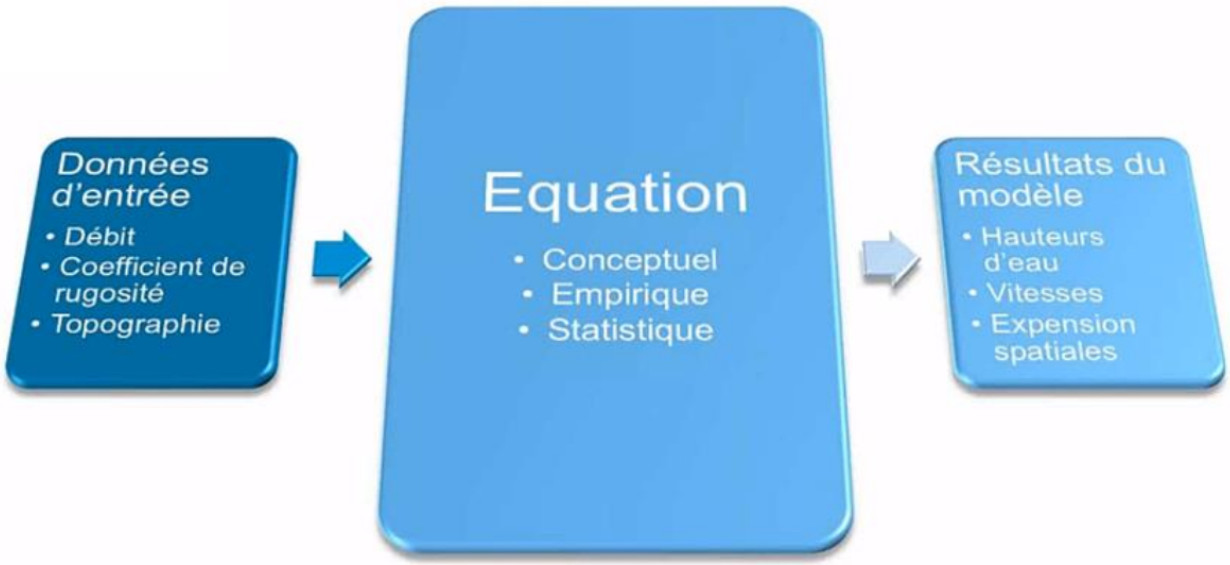
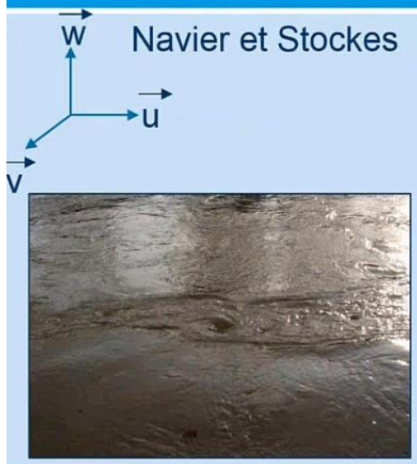
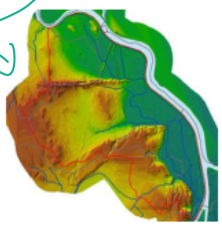
Formation sur la modélisation hydraulique 2D sous HEC RAS 6. 3



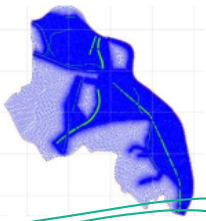
3D	2D	1D
Navier et Stockes 	Barré Saint Venant 2D 	Barré Saint Venant 1D 



Topo

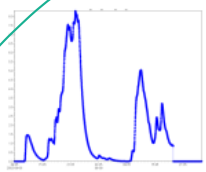
MNT

Création du maillage



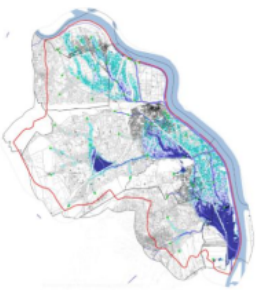
Maillage 2D

Modèle hydraulique
HEC-RAS 1D/2D



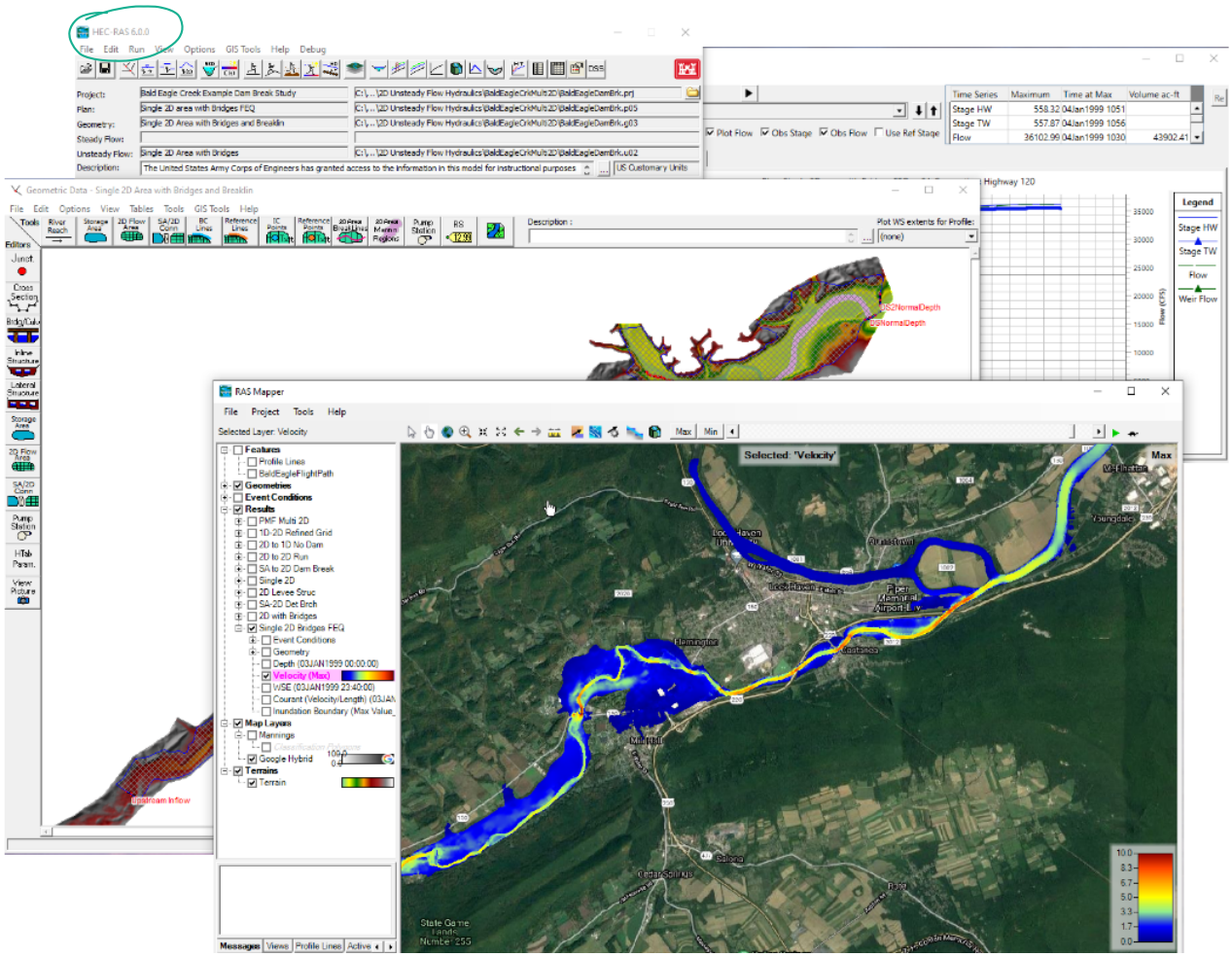
Hydrogrammes
de crues

HEC HMS



Zones inondables

Export de résultats
Traitement SIG


HEC-RAS 6.0.0
File Edit Run View Options GIS Tools Help Debug
Project: Bald Eagle Creek Example Dam Break Study
Plan: Single 2D area with Bridges FEQ
Geometry: Single 2D Area with Bridges and Breaklin
Steady Flow:
Unsteady Flow: Single 2D Area with Bridges
Description: The United States Army Corps of Engineers has granted access to the information in this model for instructional purposes
US Customary Units
Time Series Maximum Time at Max Volume ac-ft
Stage HW 558.32 04Jan1999 1051
Stage TW 557.87 04Jan1999 1056
Flow 36102.99 04Jan1999 1030 43902.41
Plot Flow Obs Stage Obs Flow Use Ref Stage
Geometric Data - Single 2D Area with Bridges and Breaklin
Highway 120
Legend
Stage HW
Stage TW
Flow
Weir Flow
RAS Mapper
File Project Tools Help
Selected Layer: Velocity
Features
Profile Lines
BaldEagleFlightPath
Geometries
Event Conditions
Results
PMF Multi 2D
1D-2D Refined Grid
2D to 1D No Dam
2D to 2D Run
SA to 2D Dam Break
Single 2D
2D Levee Struc
SA-2D Det Brch
2D with Bridges
Single 2D Bridges FEQ
Event Conditions
Geometry
Depth (03JAN1999 00:00:00)
Velocity (Max)
WSE (03JAN1999 23:40:00)
Courant (Velocity/Length) (03JAN
Inundation Boundary (Max Value_
Map Layers
Mannings
Google Hybrid
Terrains
Terrain
Selected: 'Velocity'
Max
Min
Messages Views Profile Lines Active
State Game Lands Number 255
Upstream Inflow

Gary Brunner, USACE Hydrologic Engineering Center

The original author and the leader of the HEC-RAS software development team. He started working at the Hydrologic Engineering Center in 1985 and has been in his current position of Senior Technical Hydraulic Engineer in the Hydrology and Hydraulics Technology Division since 1990.

Cameron Ackerman, USACE Hydrologic Engineering Center

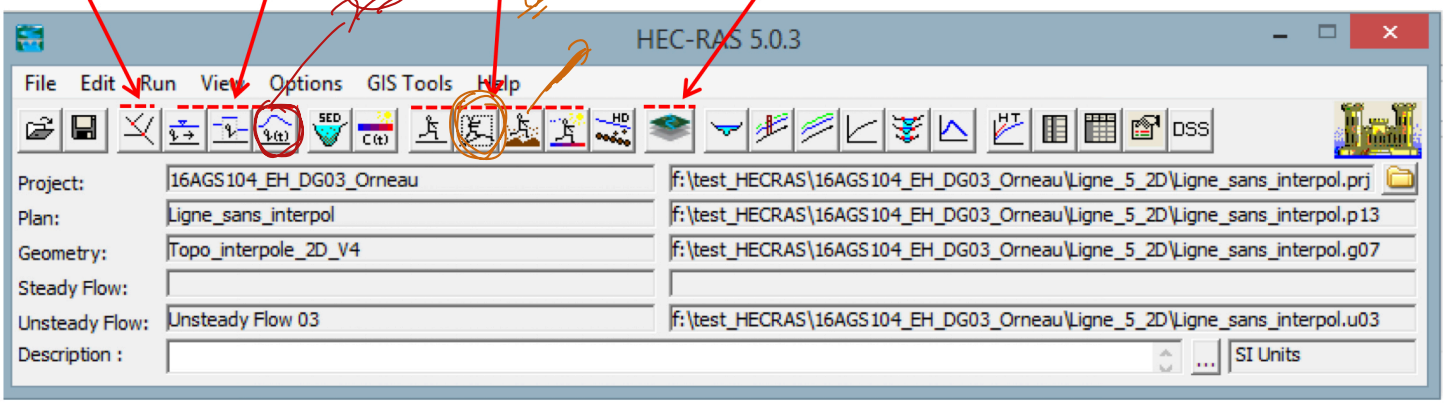
Cameron is senior hydraulic engineer and the lead developer of RAS Mapper editing suite of tools within HEC-RAS. Cameron's technical area of expertise includes hydraulic analysis for performing dam breach analysis; floodplain delineation; flood damage reduction studies; ecosystem restoration; and flood warning, response and preparedness.

Géométrie du modèle

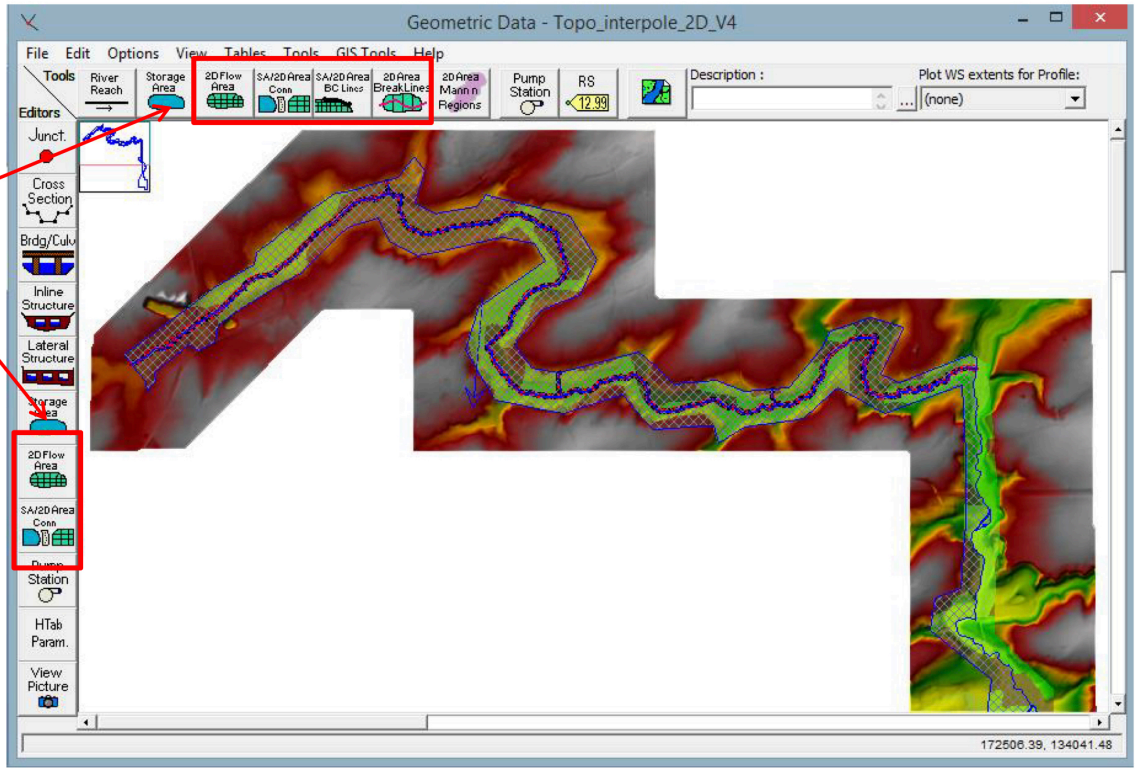
Hydrogrammes d'entrée

Simulation du modèle

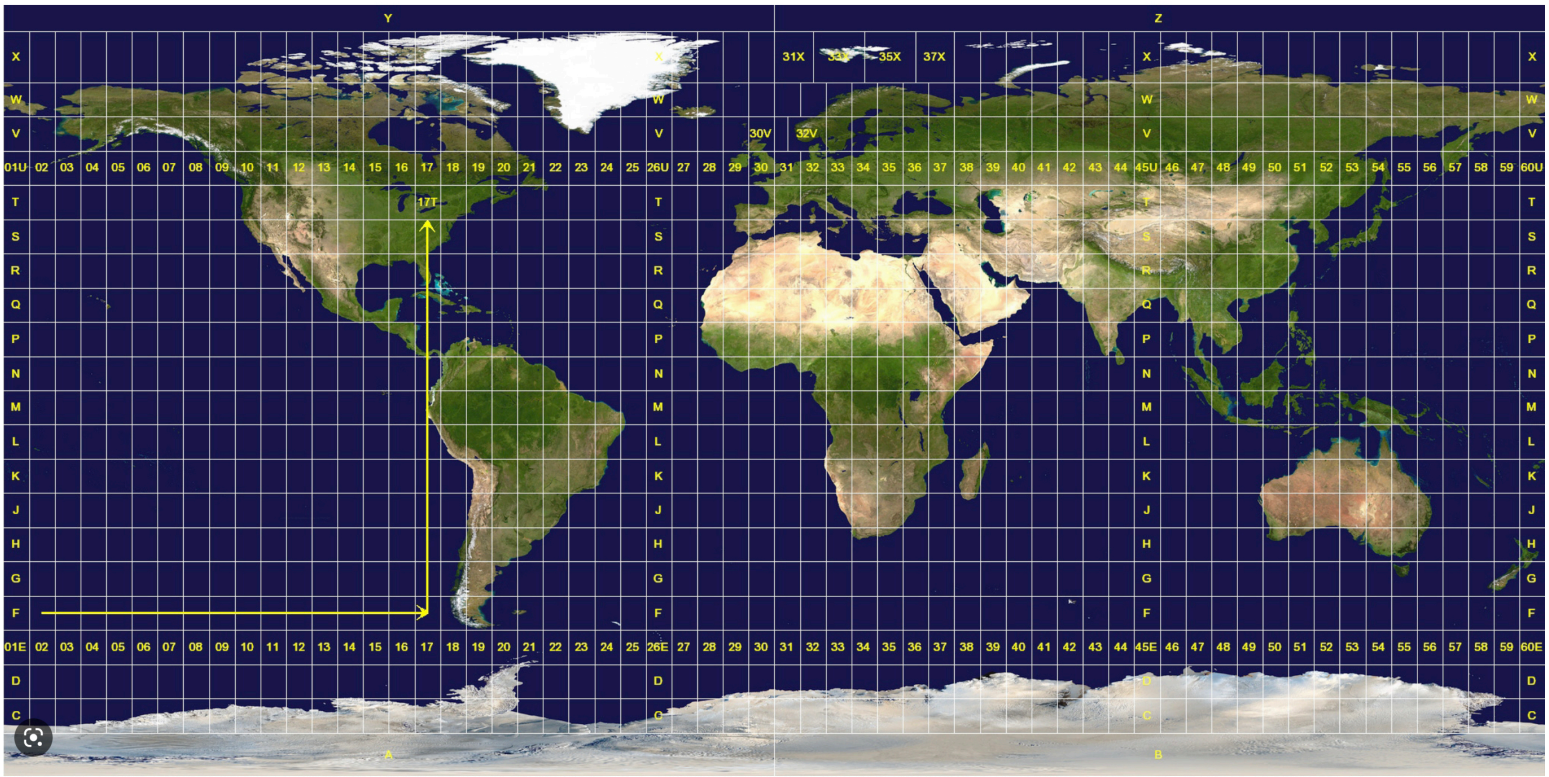
Cartographie et visualisation des données (RAS Mapper)

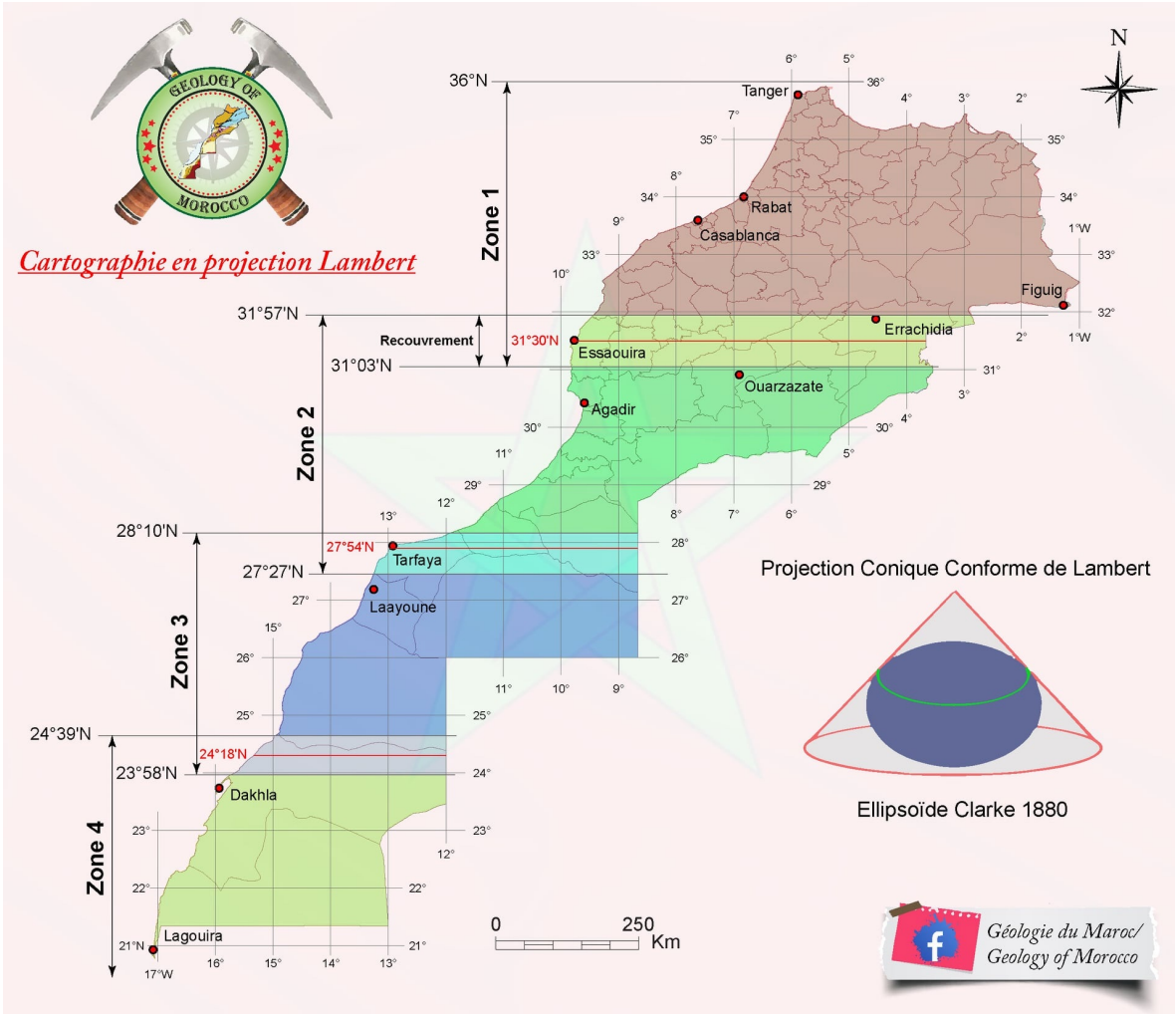


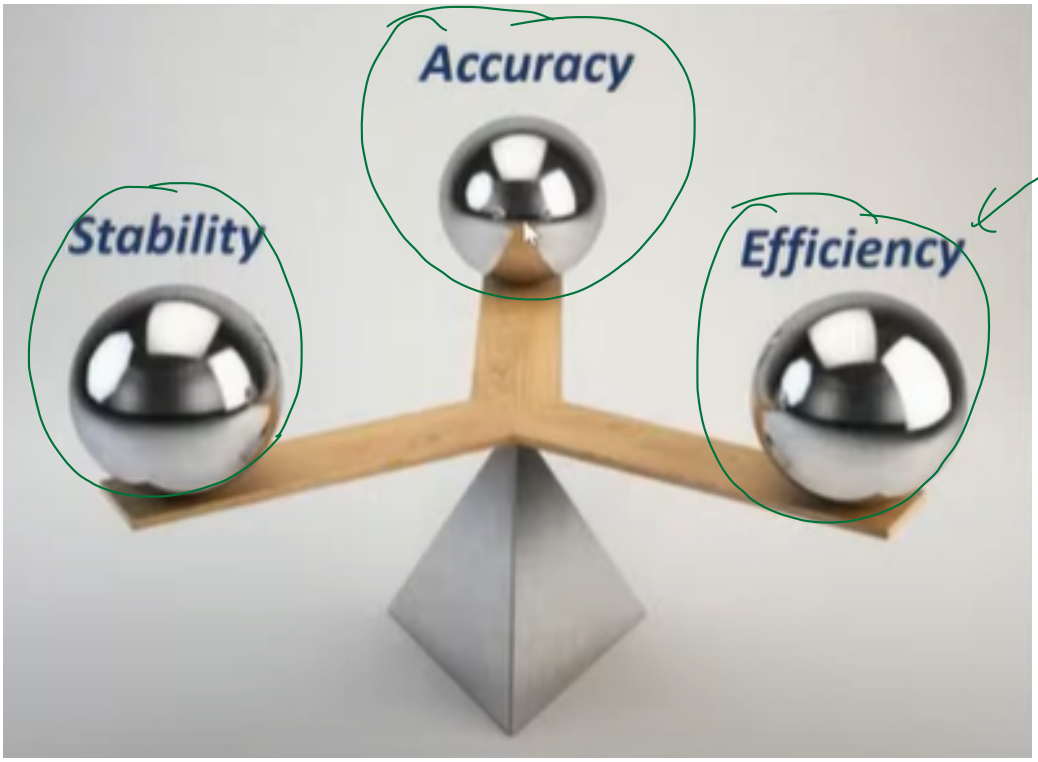
Nouveaux outils liés à la modélisation 2D

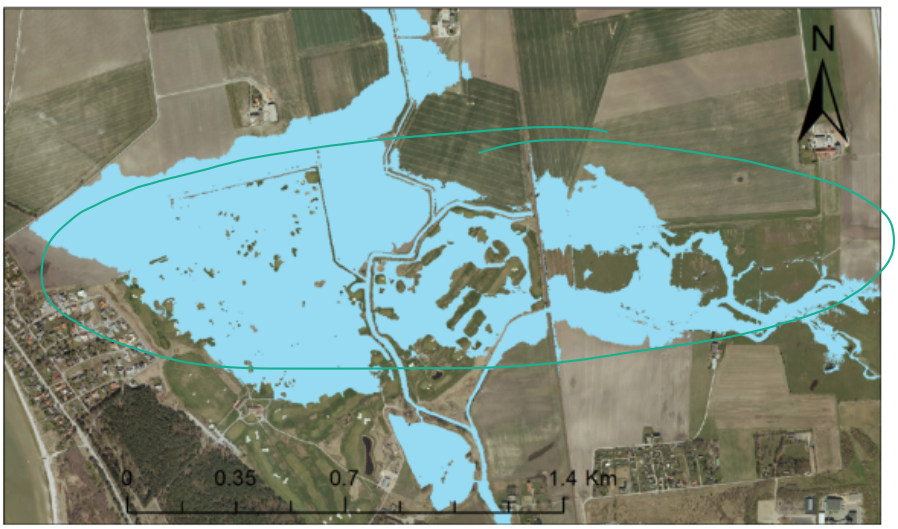


UTM LCC


Y
Z
X
W
V
01U 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26U 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45U 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60U
T
S
R
Q
P
N
M
L
K
J
H
G
F
01E 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26E 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45E 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60E
D
C
A
B
17T
31X
35X
37X
30V
32V


GEOLOGY OF MOROCCO
Cartographie en projection Lambert
N
36°N
Zone 1
Tanger
Rabat
Casablanca
Figuig
31°57'N
Recouvrement
31°30'N
Essaouira
Errachidia
31°03'N
Zone 2
Ouarzazate
Agadir
28°10'N
27°54'N
Tarfaya
27°27'N
Laayoune
Zone 3
24°39'N
24°18'N
23°58'N
Dakhla
Zone 4
Lagouira
0
250
Km
Projection Conique Conforme de Lambert
Ellipsoïde Clarke 1880
Géologie du Maroc/
Geology of Morocco


Accuracy
Stability
Efficiency


N
0
0.35
0.7
1.4 Km