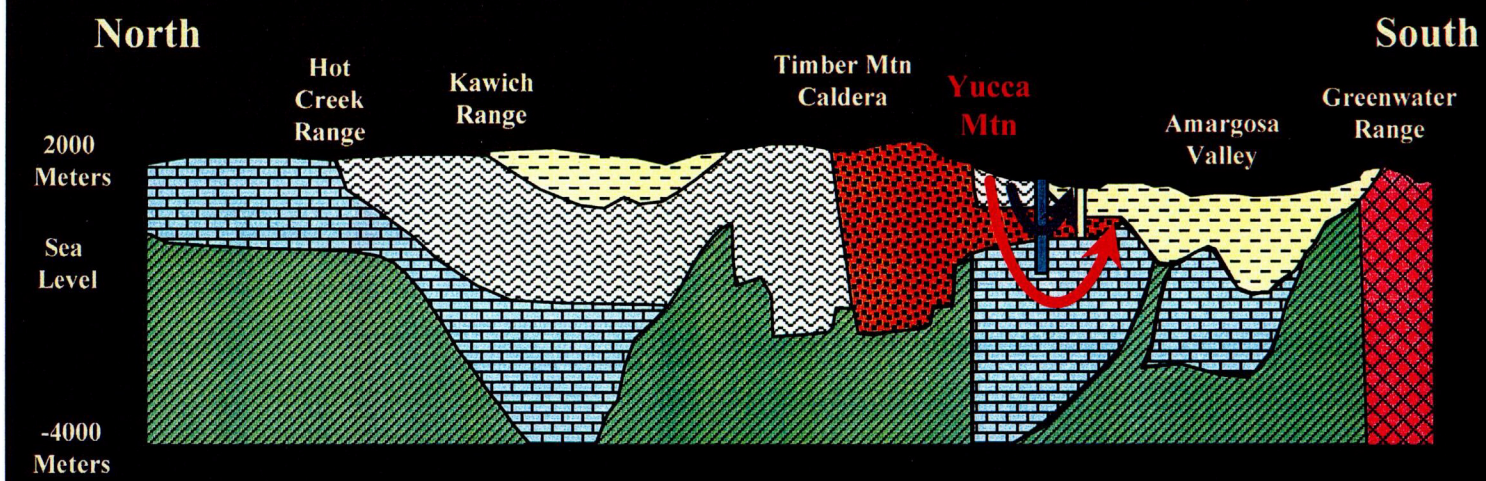
#14

9804240234 980121
PDR WASTE
WM-11 PDR



Nye County's Proposed Early-Warning Monitoring System Program

Presented to NWTRB

January 21, 1998

C-01

DF03
102
WM-11

Nye County's Regional Saturated-Zone Modeling

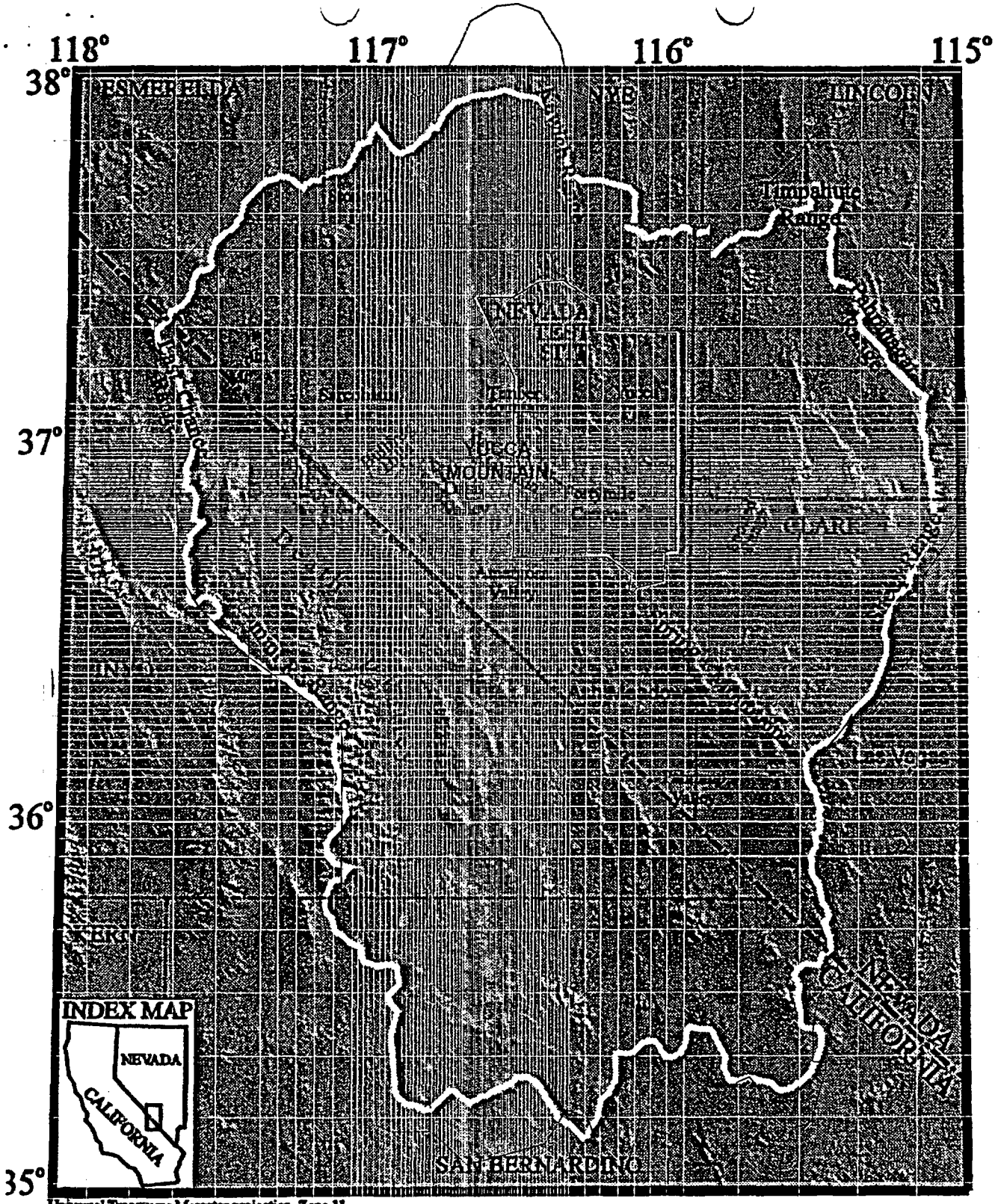
Nye County is primarily interested in protection of human lives and resources in the county.

Flow of information and data from the project is very slow.

Nye County needs to evaluate potential alternatives at the same pace as the project's progression.

Nye County is not satisfied with the adequacy of various scenarios that should be evaluated with the models.

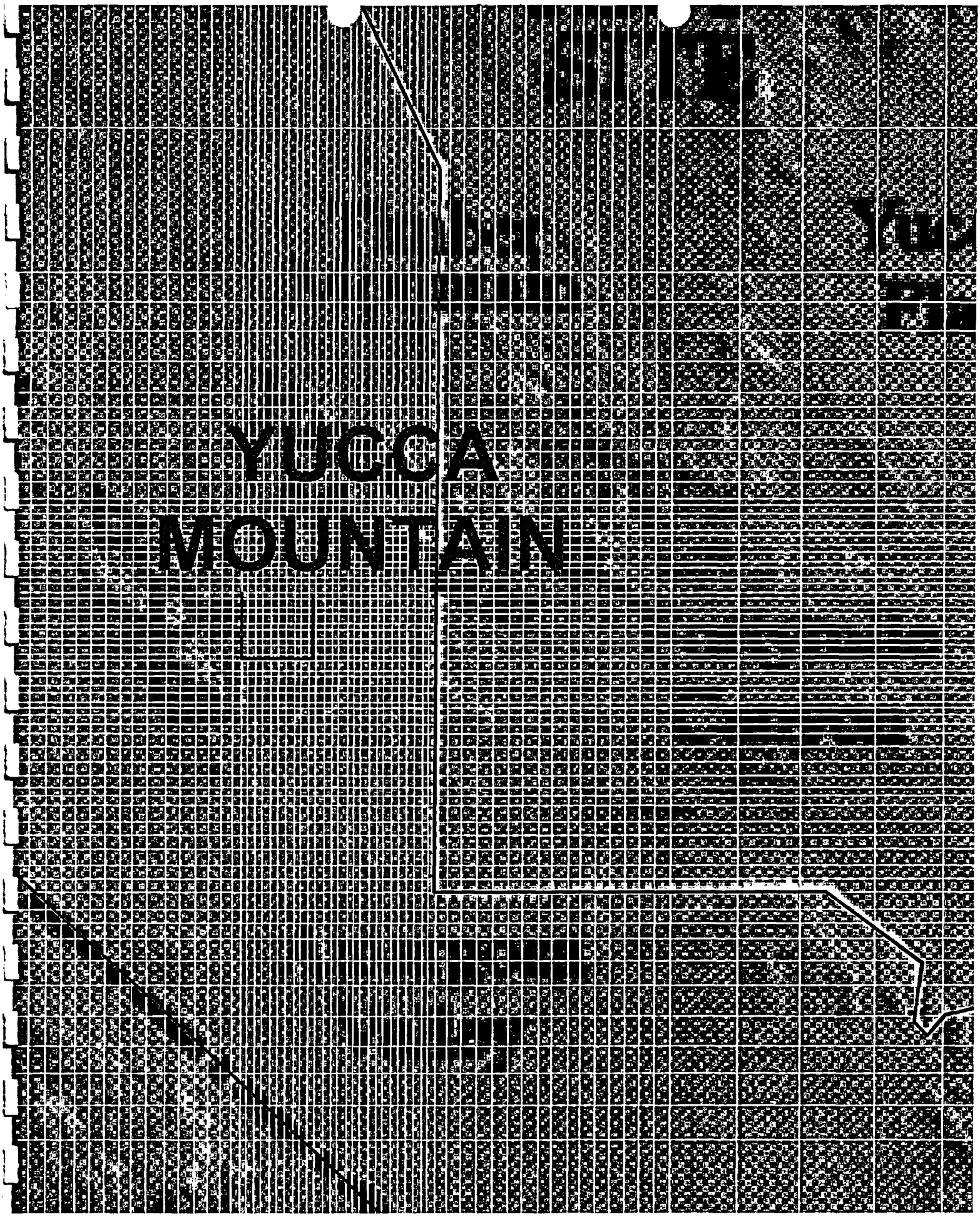
A-T2VOC can be readily coupled with the unsaturated zone model of LBNL.



Universal Transverse Mercator projection, Zone 11.
Shaded-relief base from 1:250,000-scale Digital Elevation Model;
sun illumination from northeast at 30 degrees above horizon

25 0 25 50 MILES

25 0 25 50 KILOMETERS


YUCCA
MOUNTAIN

Nye County's Early-Warning Monitoring System

— WHY?

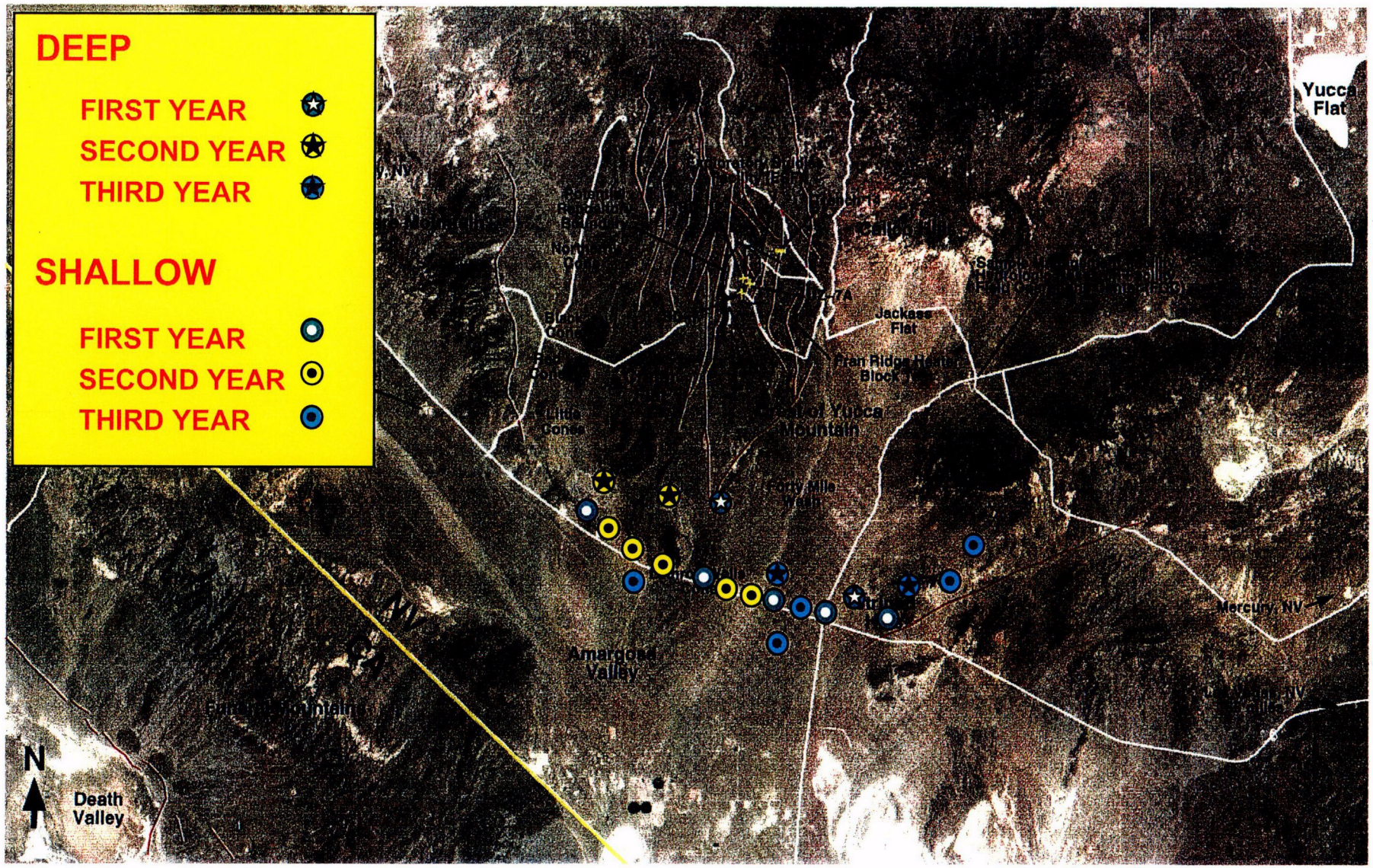
Off-site hydrogeologic data is scarce.

Currently proposed off-site ground-water monitoring programs are not satisfactory

Economically not feasible for DOE to install an adequate monitoring system.

Ground-water in Amargosa Basin is non-replenishable and is becoming more valuable.

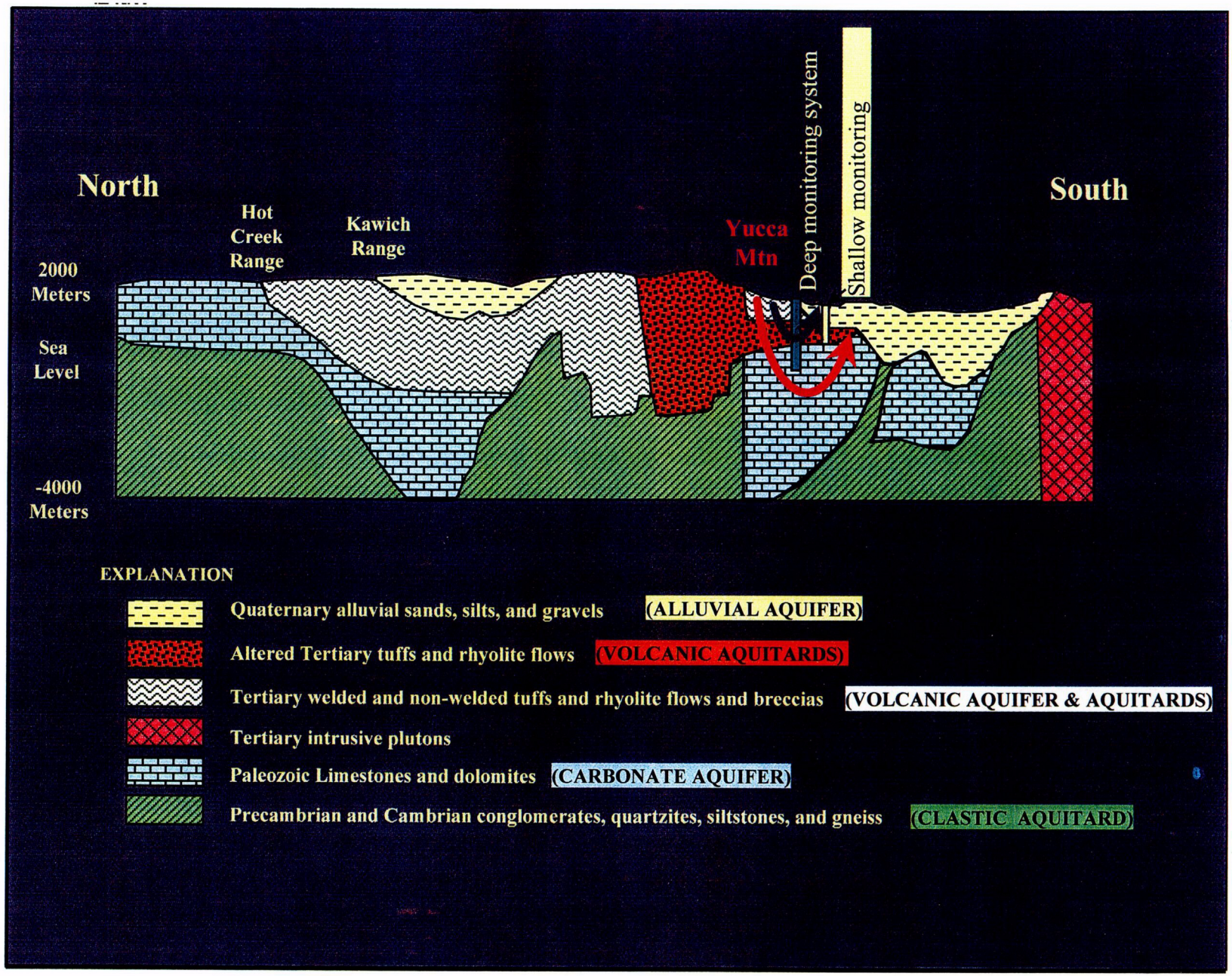
YUCCA MOUNTAIN, NEVADA, REGION



Scale 20 km

CNWRA/YMTNVIC.SC 7-25-95

C-02


North
South
Hot Creek Range
Kawich Range
Yucca Mtn
Deep monitoring system
Shallow monitoring
2000 Meters
Sea Level
-4000 Meters
EXPLANATION
Quaternary alluvial sands, silts, and gravels (ALLUVIAL AQUIFER)
Altered Tertiary tuffs and rhyolite flows (VOLCANIC AQUITARDS)
Tertiary welded and non-welded tuffs and rhyolite flows and breccias (VOLCANIC AQUIFER & AQUITARDS)
Tertiary intrusive plutons
Paleozoic Limestones and dolomites (CARBONATE AQUIFER)
Precambrian and Cambrian conglomerates, quartzites, siltstones, and gneiss (CLASTIC AQUITARD)

C-03