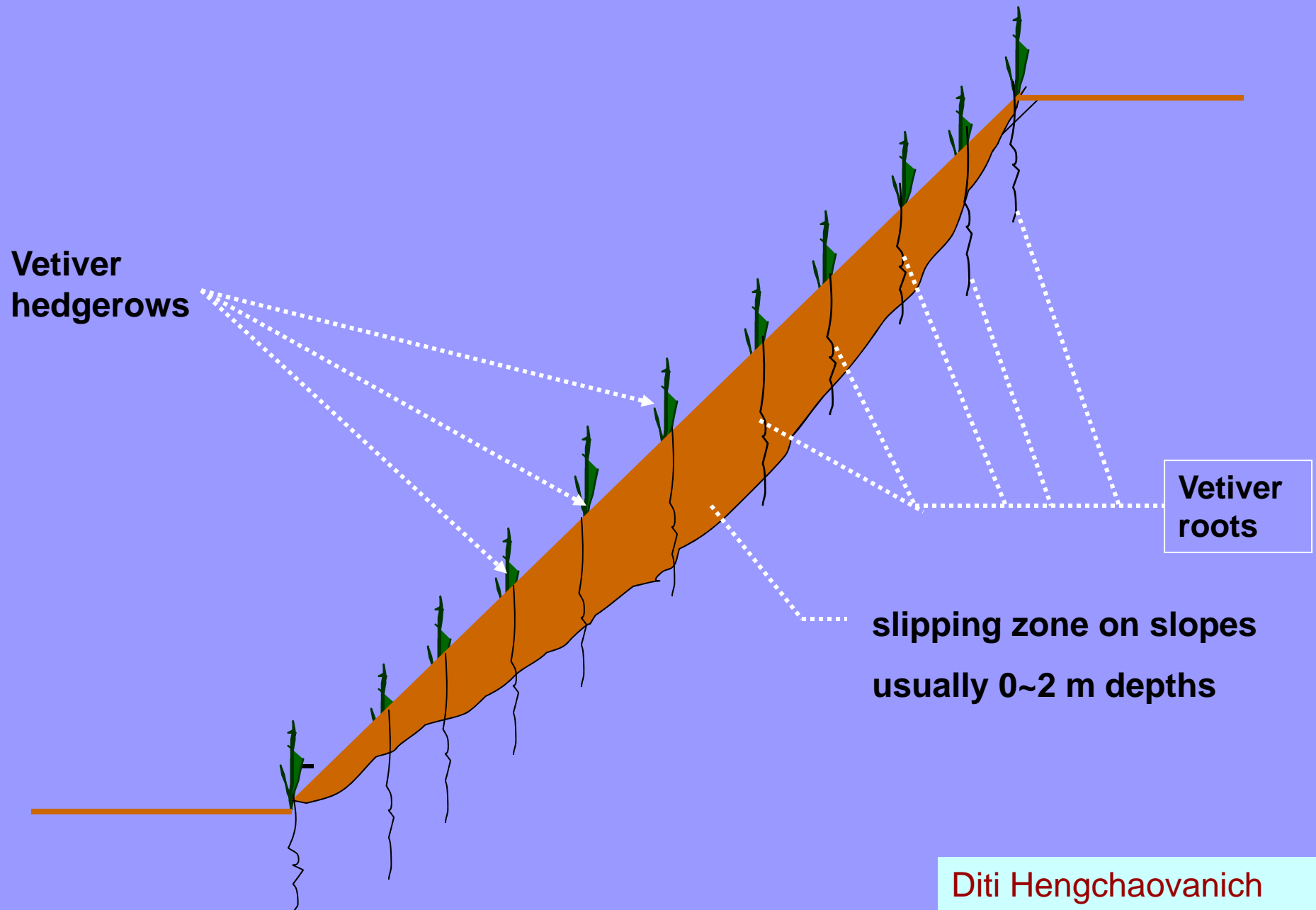


VETIVER ROOTS

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Soil stabilisation mechanism by vetiver



DEEP, EXTENSIVE AND PENETRATING ROOT SYSTEM

China: 9 months old with 3.3m deep root system



“香根草根系”观测 Investigation to Vetiver Roots

生长发育270天
Growth and Development for 270 days

种植时间:	2002年4月1日
Planting time:	1 April 2002
种植株数:	9株
Tiller number at planting:	
挖掘时间:	2003年1月7日
Digging time:	7 January 2003
种植天数:	270 days
Growing days:	
根系长度:	330cm
Length of roots:	
主根数量:	1924根
Number of main roots:	
分蘖总数:	505个分蘖
Number of tillers:	
根径冠幅直径:	55cm
Diameter of roots crown:	

注: 1. 实验所采用的框架规格为: 长100cm, 宽100cm, 高350cm。
Note: 1. The frame accomodating vetiver's growth: 100cm long, 100cm wide and 350cm high.

2. 种植时根系被框架限制, 不能自由生长, 故其根径的冠幅和长度较实际自由生长有一定差别。

2. Vetiver roots were confined by the frame and, therefore, couldn't fully growth. So, there is a little difference between roots crown and length in the experiment and practical situation.

3. 主根是指单根直径在0.5-0.8cm之间, 取值范围在分蘖点以下0-10cm。

3. Main roots are referred to as those that the diameter of a single roots is from 0.5-0.8cm within 10cm from crown of roots.



China



Thailand
3.7m in 1 year



Congo

Vietnam

***C. zizanioides*
(Indian)**

***C. nemoralis*
(Native)**



Vietnam



C. zizanioides

C. nemoralis

Young roots like steel pins!



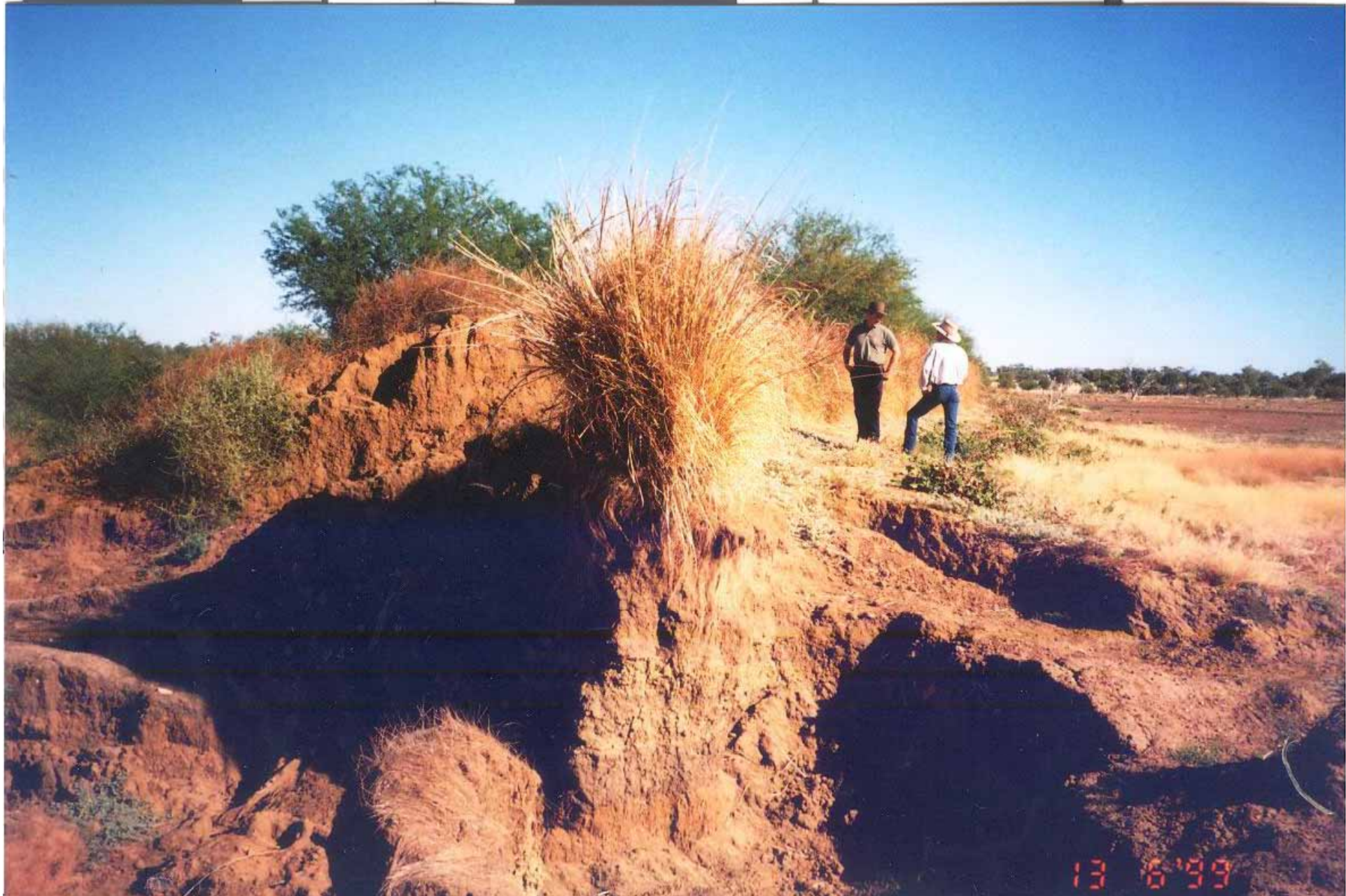






**Dry roots sold in Senegal
fro water purification and
flavouring**

**(I believe they also put it
in water bottle)**





Strong root reinforcement holding up this wall of soil against water erosion

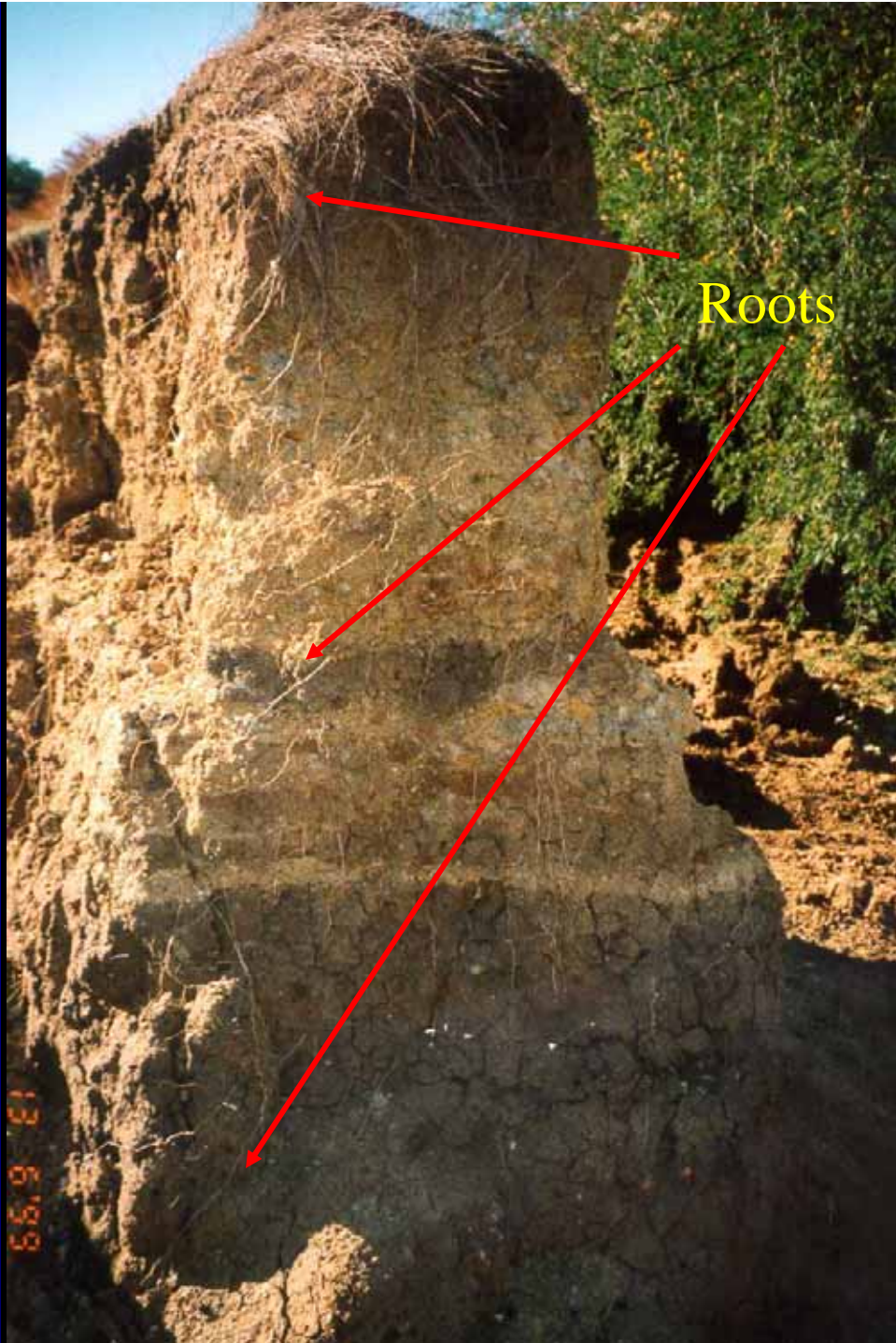








**A curtain of
roots**



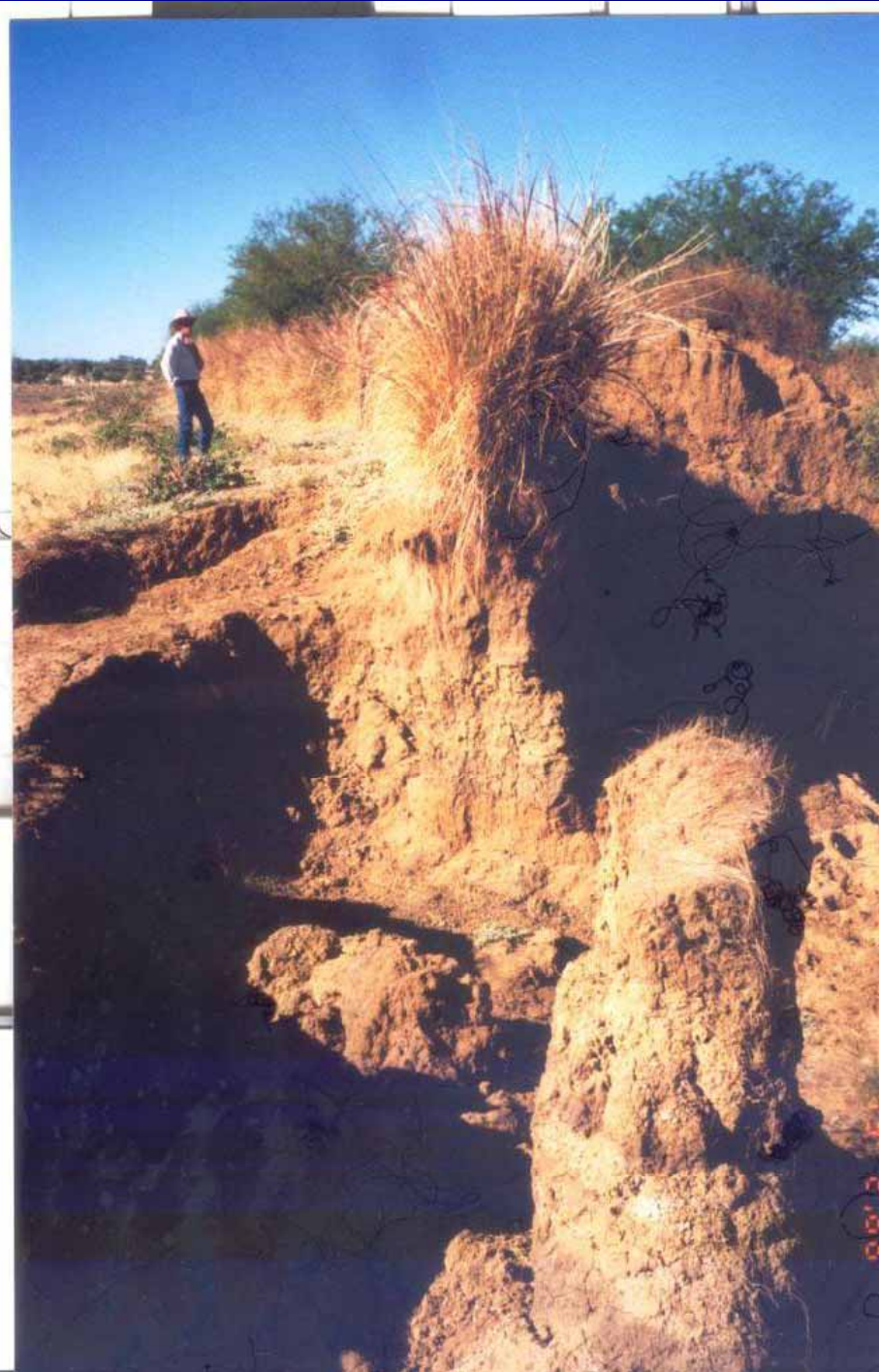
Extensive root
distribution at
depth



**Extensive root
over 2m deep**







One Vetiver clump holding firm, while surrounding area washed away in Fiji





