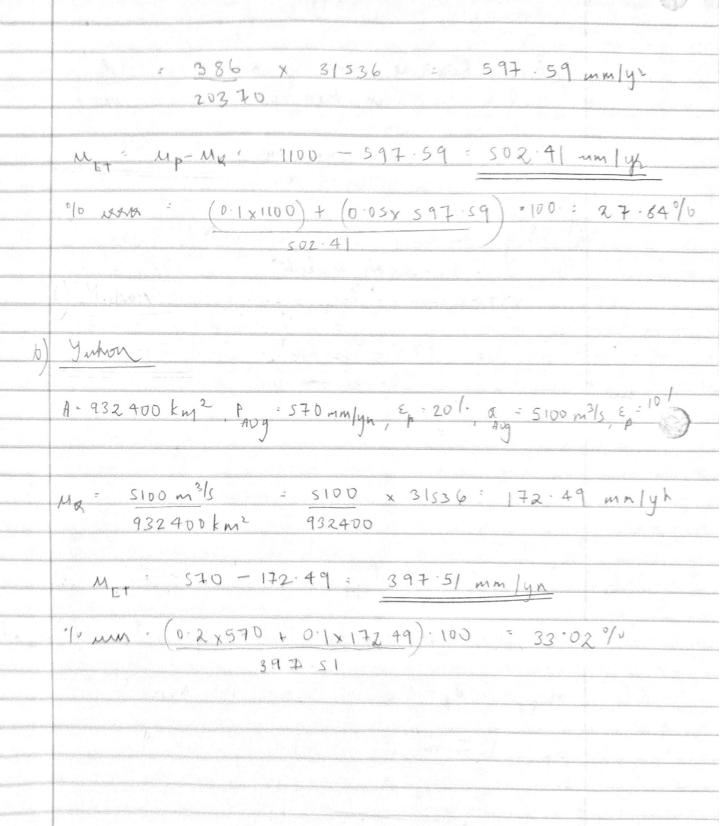
## CEE 6400 HW # 1 KARUN JOSEPH, AD2240287

Oi	I = 0.00042 H + 0.00026 H.P
	0.000 42 x (mm) = (0.000 26 x 1) x mm x mm
	1.80042 x (1) in = 0.0026 x 1x25 4 1 in x 1 (25.4)
**************************************	0.00001P H + 0.00010 Hb
	B= 0.00061. p. (Ts-Ta)
	[1] : 0.00061. 1. mm. (°C)  mh (°C)  mb
	0.00061. (2.1001). (25.4) PinHa). (32+1×1.8) F &+(Tex
	0.00 fl x 1.33
	0.0081
	B: 0.0081 p (Ts-Ta)  es-ea

(0.83. Km) - 54 111 1 cal: 4:25 · 083 : cal - 54 · cal =4.2Ws cm d = 0.83. 174.2 Wx  $(10^{-2})^2)^2_m(24\times60\times60)$  ×  $(10^{-2})^2_m^2(24\times60\times60)$ 0.83x (0.0281) - 54 (0.028) 0.023 Kin -1.5 iv F = 3.64. Ma 3.64 X (cm)2 mb (km). cm T. 1 +273 1 KPai 10 mb mm = 3.69 (Tx - 273)°C x 1 x 10 mm 0.1 kPa 5 0.1 kPa (Tx - 273)°C 24 x 60 x 60 S 42.13 Ma  $\left(\frac{c^* - e_a}{2m}\right)^2$ 



4 Euphratis A = 261100 km², Parg = 300 mm/yr, & -101- 8 mg 911 m3/5 Em 10°/0 Mg 911 m3/5 = 911 Y 31536 = 110.03 mm/yn 261100 km² 261100 Mm = 300-110.03 = 189.97 mm/yn % mm (0.1 x 300 + 0.1 x 110.03). 100 = 21.58% 189.97 A 663,000 km2, Pary = 1460 mm/yn, Ep = 151, Pary 13200, Eq 5.1 My = 13200 m3/3 : 13200 x 31536 = 627 87 mm/y 663000 663000 MET 1460-627.87 = 832.13 mm/yn % my (0.13 x 1460 + 0.05 x 627.87). 100 - 30.09 % 832.13

a) Countrud Mag: 502 mm/yh: 50.2 cm/yn Vs 40 = dy = +25% Lehon Mar 397-51 mm/yn 39.75/cm/y Vs 40 = dy : +0.625/ Eughnotes MET: 189. 97 mm) n. 18.9 cm/y \$ 20= off: -5.5.1. MET 832mm/y = 83.2 cm/yn Vs 80 = ayy : 41. . They compare seasonably well 95% als & relative uncertainth in ET a) Conniberal Sp = 01 × 1100 : 55 mmyn-50 = 0.05 x 597.59 = 14.94 nmy Sty = V(SS) 2+ (14.94) 56.99 mm yn-1 MET 2 × 56.99 : 0.23 :. Ph & Soz. 41 - 0.23 (sor. 41) ) = per sh(sis, 0.23 x502.41) = P& & 386.86 mm y 3 = MI = 630.553: 0.95

b) Juhon sp = 0.2 x 570 = 57 mm/yn=

Sb: 6.1×172.49 = 8.62 mm/yn-SET V(57) + 18.6272 = 57.65 mmyn-1

Met : 57.65 x 2 " 0.29

PA [ 292.23 mmy" = ME, = 512.79 mmyn") 0.9

c) Euphralis

5p = 01×300 : 15

Su= 0.1 × 110.03 - 5.50

St+ = V(15/2+(5:50)2 = 15. T8 mmyn"

MET = 2 x 15.98 = 0.17

PA 2 157.68 mmyn = MET = 222.26 mmyn ): 0.95

Me kong Sp= 0.15x 1260 : 109.5 mm/ynt1-5 = 0.05 x 627.87 = 15.7 mm/yn 5 = 1 · V(1095) + (15.7) = 110.62 mmyn-1 Mr. 2 × 110.62 : 0.27 Px 2 607.95 mmy " = Mt = 1056.81 mmy " 3