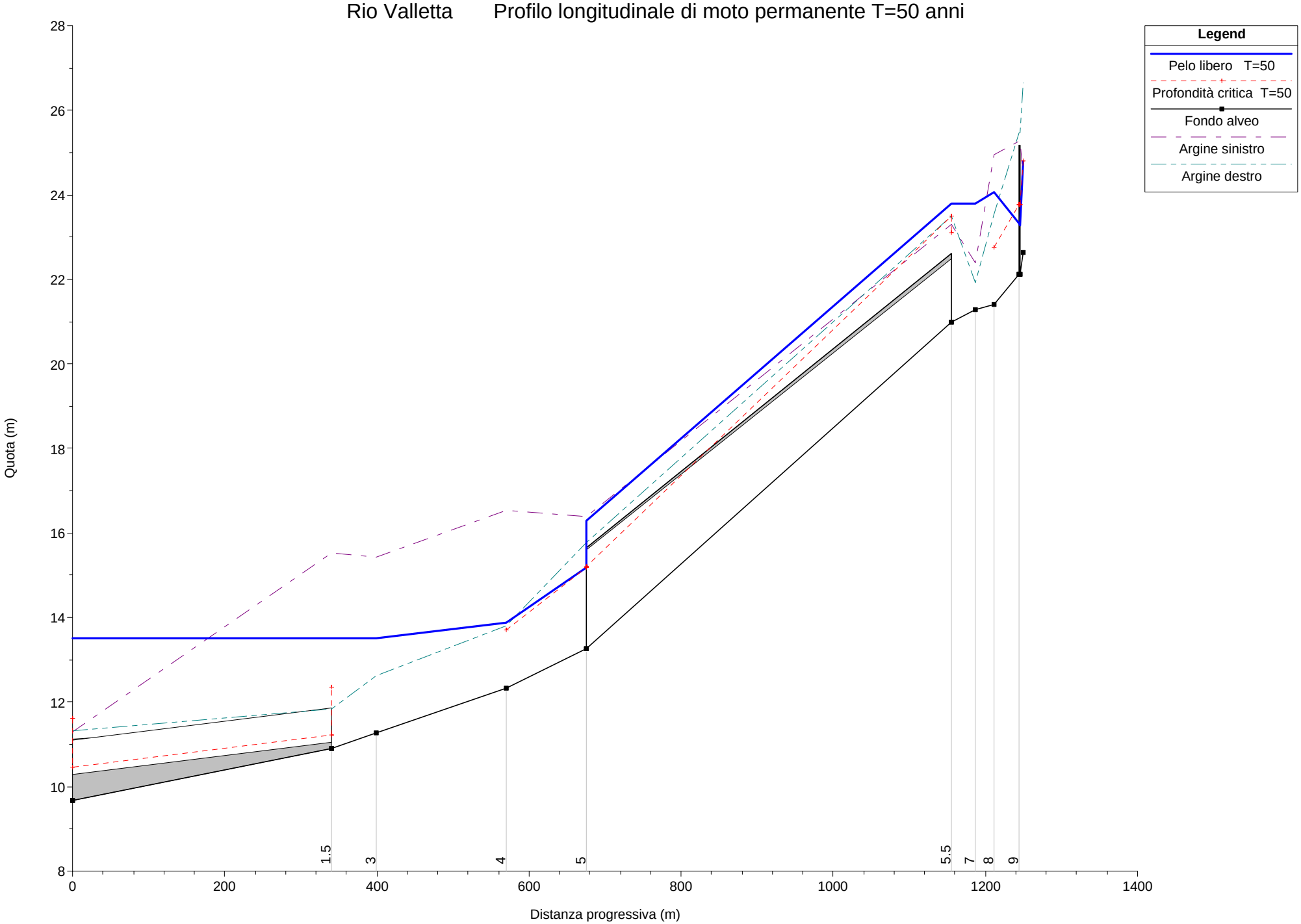
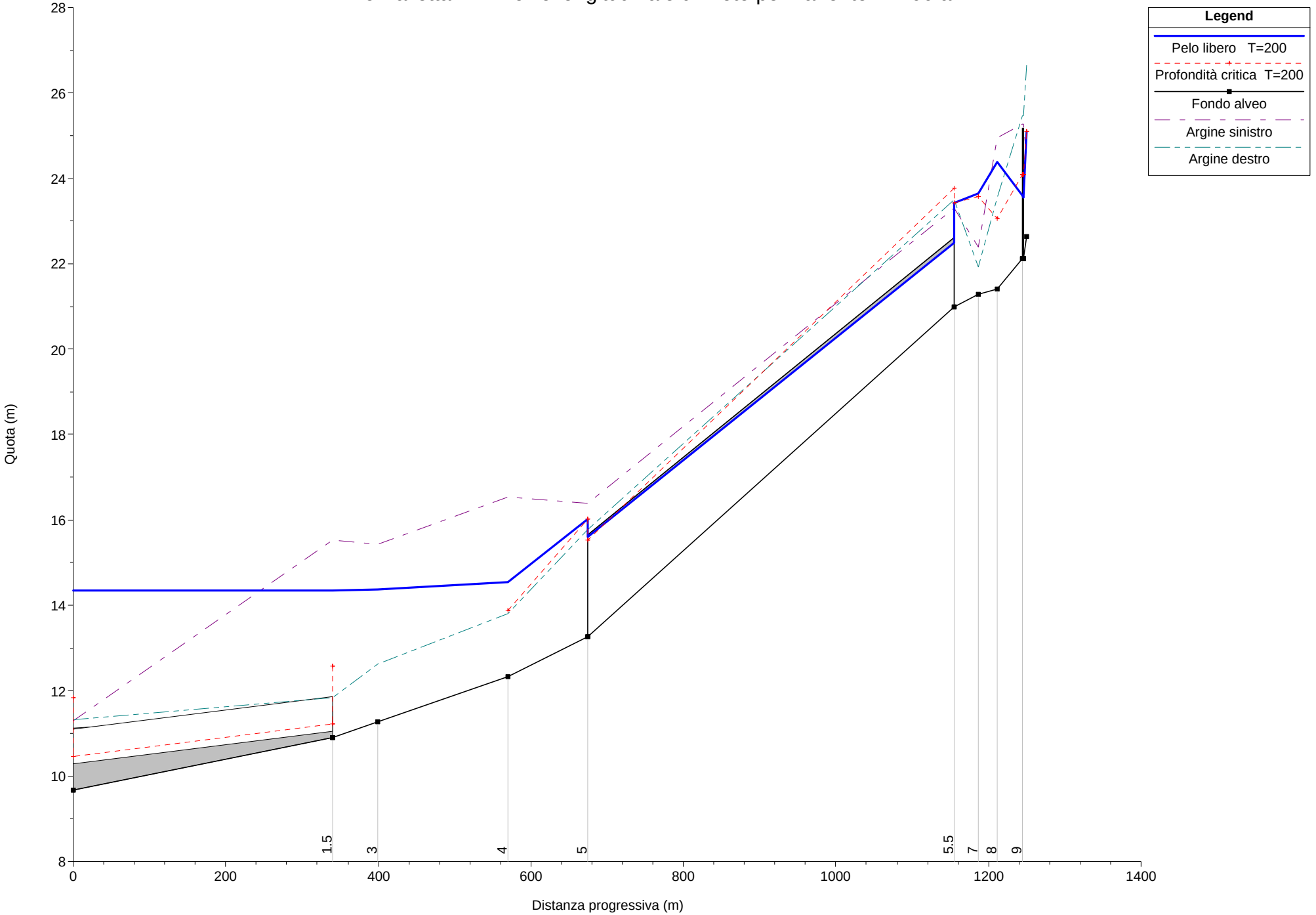
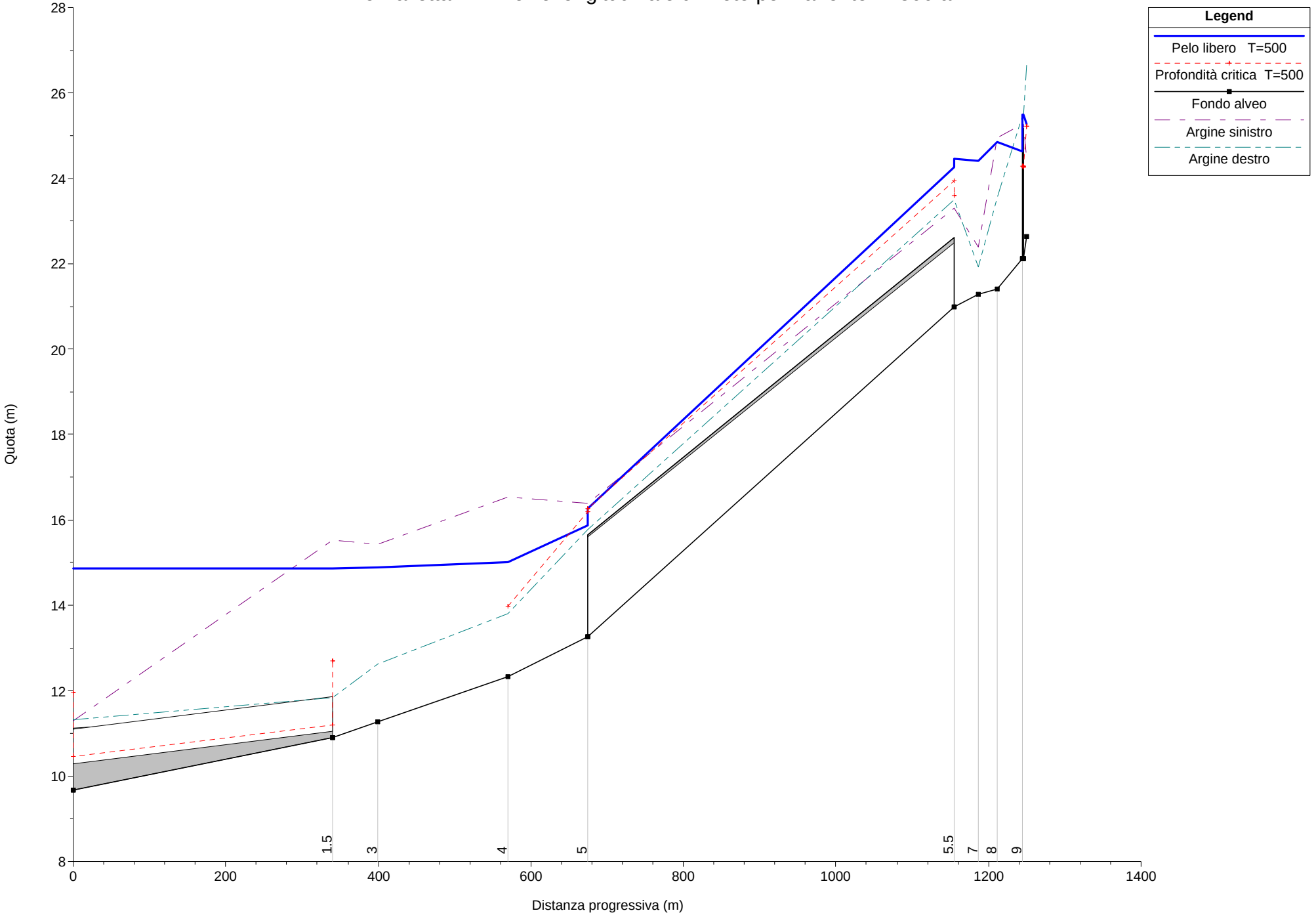
PROFILI DI RIGURGITO IN CONDIZIONI DI MOTO PERMANENTE PER LE PORTATE T=50, 200, 500 ANNI

RIO VALLETTA loc. Bastia


Rio Valletta Profilo longitudinale di moto permanente T=50 anni
Legend
Pelo libero T=50
Profondità critica T=50
Fondo alveo
Argine sinistro
Argine destro
Quota (m)
Distanza progressiva (m)
28
26
24
22
20
18
16
14
12
10
8
0
200
400
600
800
1000
1200
1400
1.5
3
4
5
5.5
7
8
9


Rio Valletta Profilo longitudinale di moto permanente T=200 anni
Legend
Pelo libero T=200
Profondità critica T=200
Fondo alveo
Argine sinistro
Argine destro
Quota (m)
Distanza progressiva (m)
28
26
24
22
20
18
16
14
12
10
8
0
200
400
600
800
1000
1200
1400
1.5
3
4
5
5.5
7
8
9


Rio Valletta Profilo longitudinale di moto permanente T=500 anni
Legend
Pelo libero T=500
Profondità critica T=500
Fondo alveo
Argine sinistro
Argine destro
Quota (m)
Distanza progressiva (m)
28
26
24
22
20
18
16
14
12
10
8
0
200
400
600
800
1000
1200
1400
1.5
3
4
5
5.5
7
8
9

GEOMETRIA DELLE SEZIONI ED ALTEZZA DEL PELO LIBERO IN CONDIZIONI DI MOTO PERMANENTE
PER LE PORTATE T=50, 200, 500 ANNI

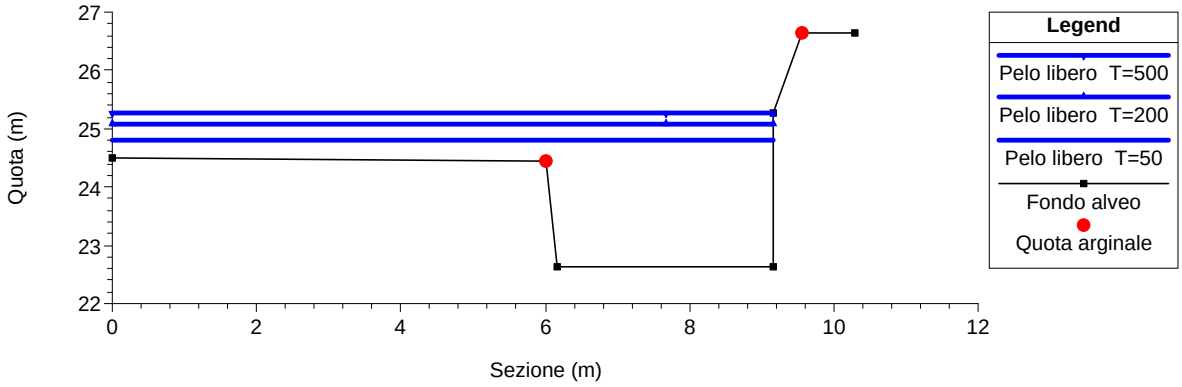
RIO VALLETTA loc. Bastia

DALLA SEZ. 11
ALLA SEZ. 1

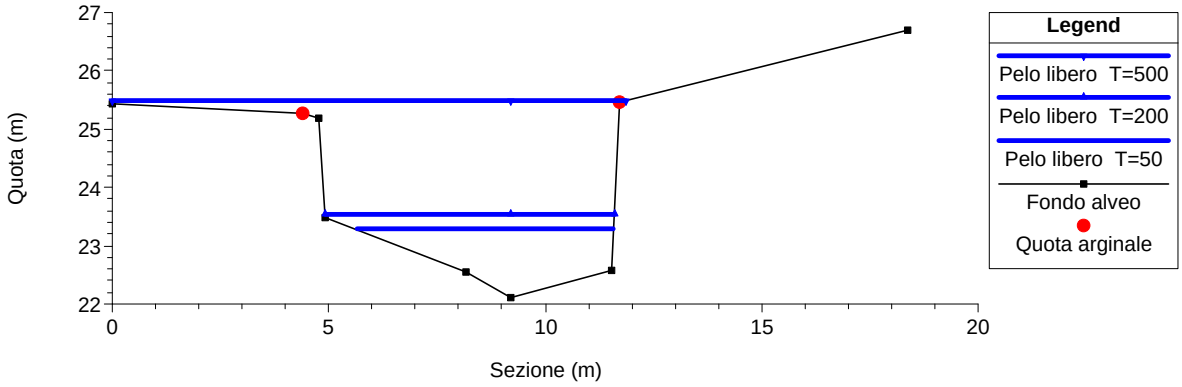
RIO VALLETTA loc. Bastia

Sezioni trasversali

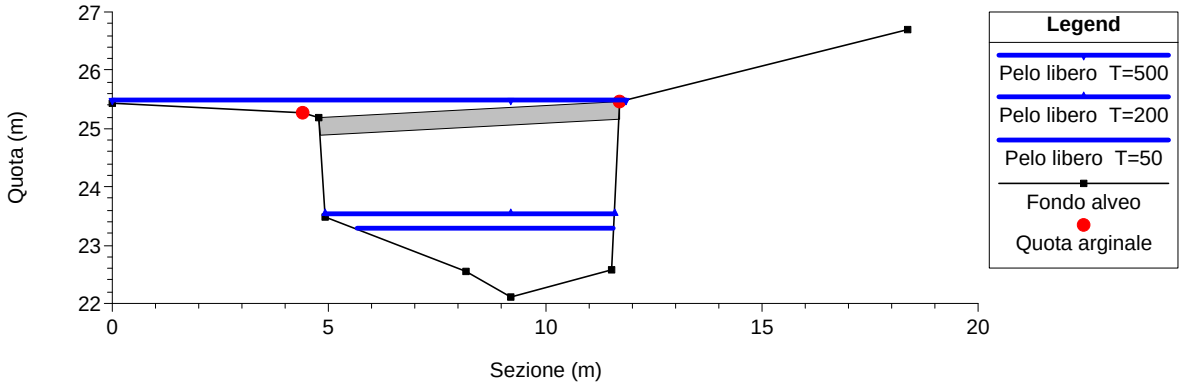
RS = 11



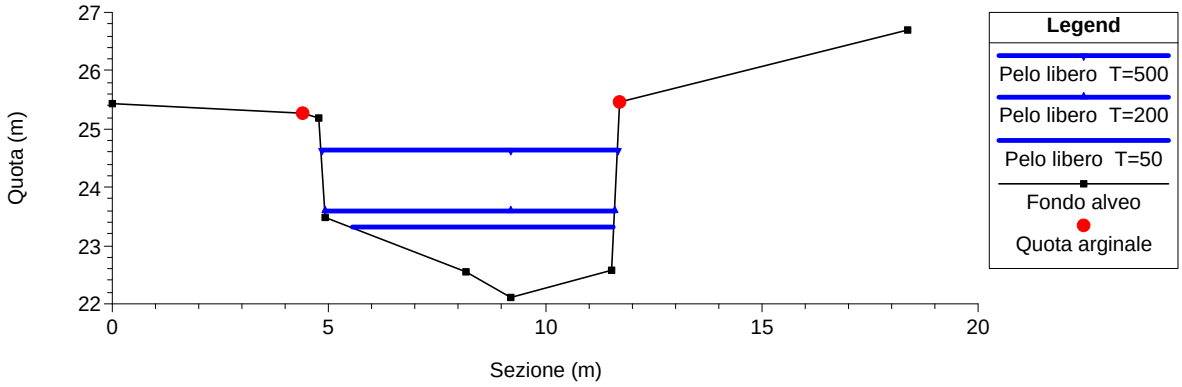
RS = 10



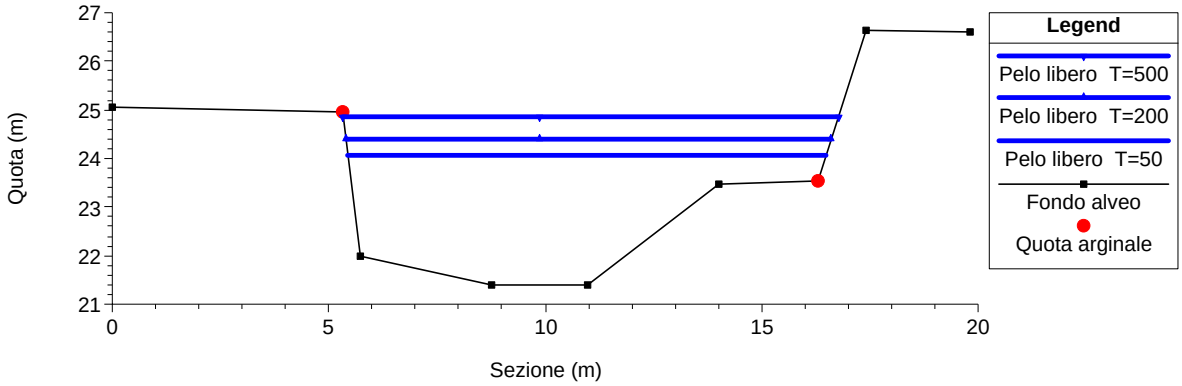
RS = 9.5 BR



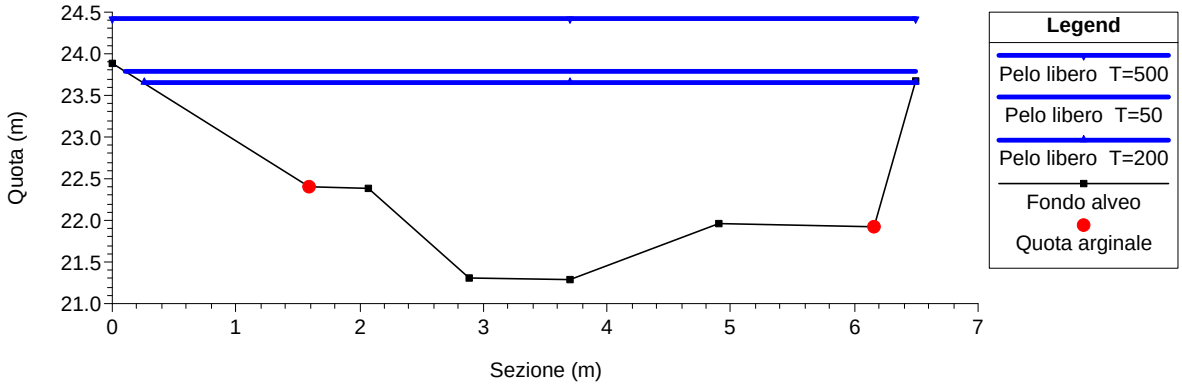
RS = 9



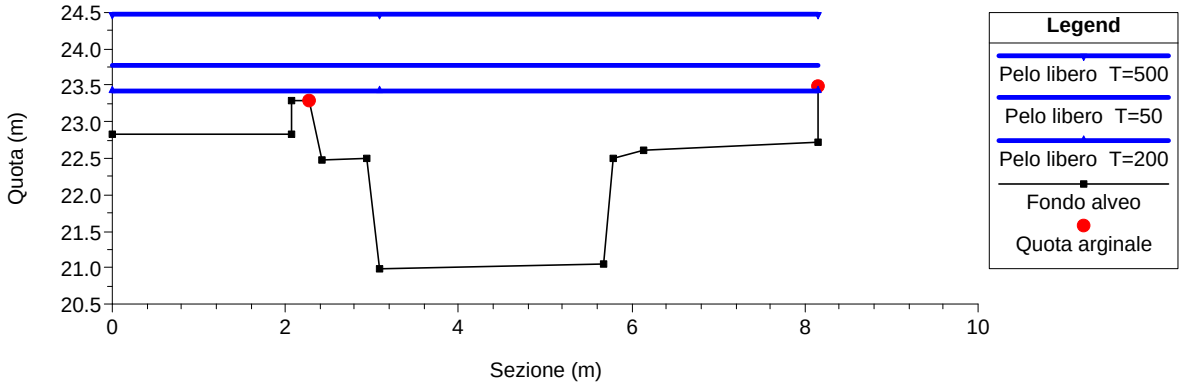
RS = 8



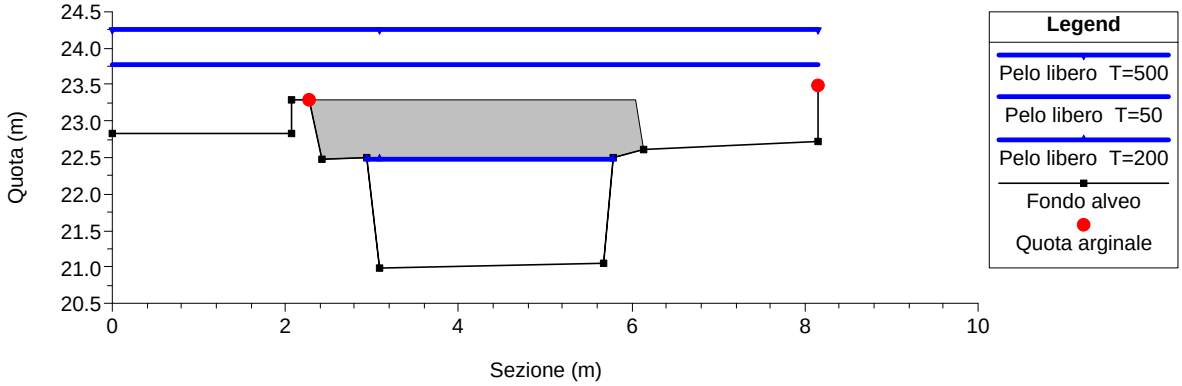
RS = 7



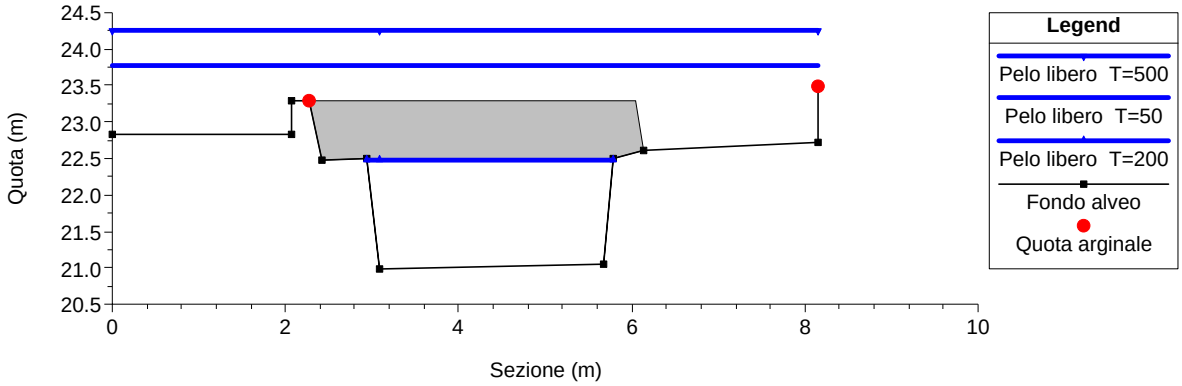
RS = 6



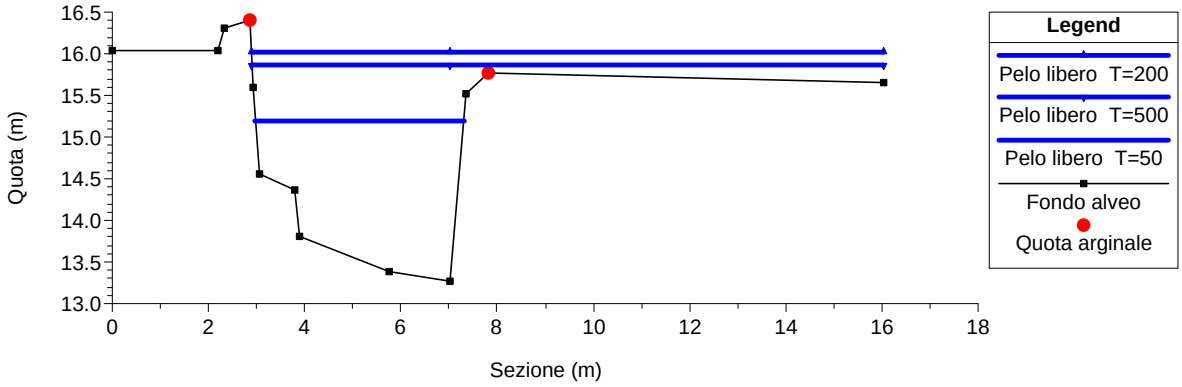
RS = 5.5 BR



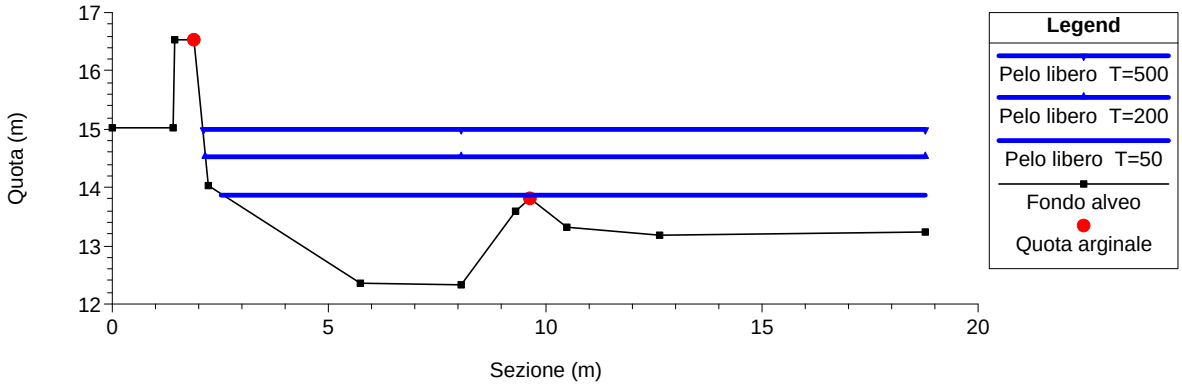
RS = 5.5 BR



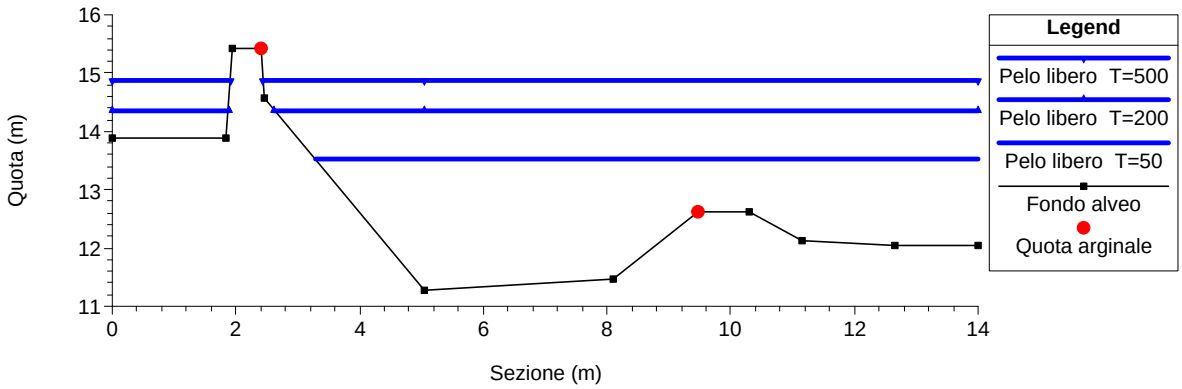
RS = 5



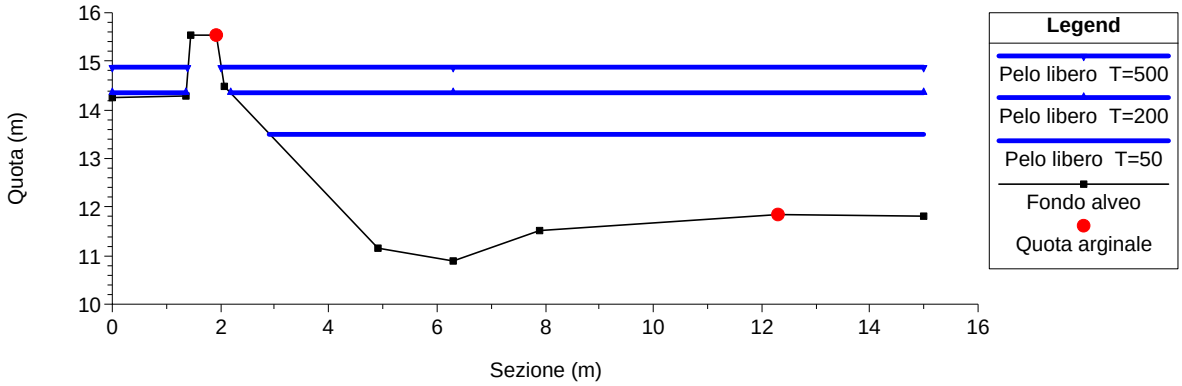
RS = 4



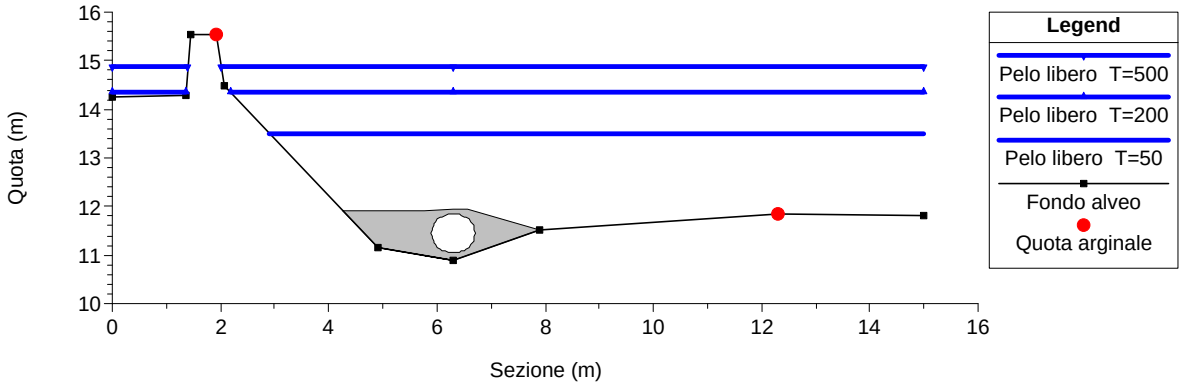
RS = 3



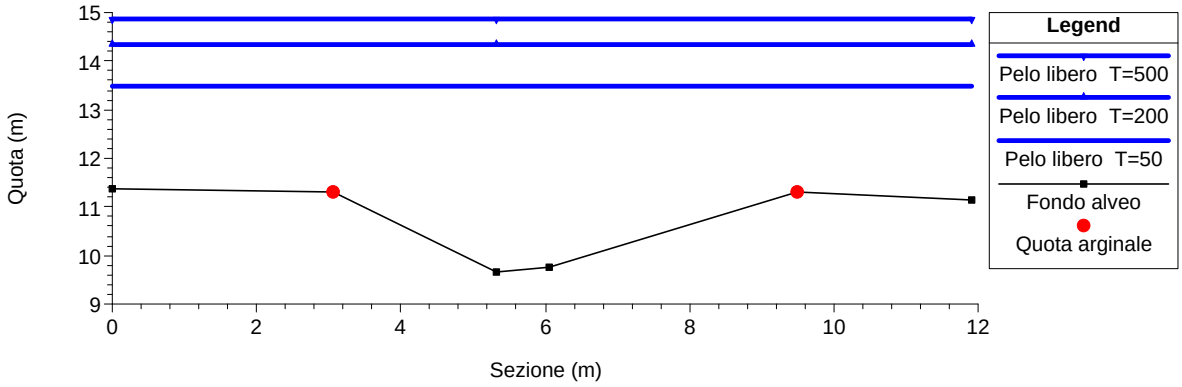
RS = 2



RS = 1.5 Culv



RS = 1



MODELLAZIONE IDRAULICA IN CONDIZIONI DI MOTO PERMANENTE:
TABELLE DELLE GRANDEZZE IDRAULICHE SIGNIFICATIVE PER LE PORTATE T=50, 200, 500 ANNI

RIO VALLETTA loc. Bastia

Rio Valletta loc. Bastia T=50 anni										
Sezioni	Portata totale (m3/s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m2)	Velocità (m/s)	Area bagnata (m2)	N° Froude
11	24	22.64	24.45	26.64	24.81	24.81	25.26	3.14	8.69	0.69
10	24	22.11	25.27	25.46	23.28	23.77	25.05	5.89	4.08	2.27
9.5	Bridge									
9	24	22.11	25.27	25.46	23.32	23.77	24.91	5.58	4.3	2.12
8	24	21.41	24.95	23.54	24.06	22.75	24.14	1.23	19.58	0.29
7	24	21.28	22.4	21.92	23.79		24.09	2.46	10.61	0.55
6	24	20.98	23.3	23.49	23.78	23.11	23.96	1.92	13.23	0.44
5.5	Bridge									
5	24	13.26	16.4	15.77	15.19	15.19	15.93	3.81	6.3	1.01
4	24	12.33	16.54	13.8	13.88	13.71	14.06	2.08	13.03	0.66
3	24	11.28	15.43	12.62	13.52		13.63	1.58	16.44	0.39
2	24	10.9	15.53	11.83	13.5	12.35	13.57	1.15	22.11	0.27
1.5	Culvert									
1	24	9.67	11.3	11.32	13.5	11.6	13.53	0.89	31.86	0.16

Rio Valletta loc. Bastia T=200 anni										
Sezioni	Portata totale (m3/s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m2)	Velocità (m/s)	Area bagnata (m2)	N° Froude
11	35	22.64	24.45	26.64	25.09	25.09	25.63	3.51	11.24	0.72
10	35	22.11	25.27	25.46	23.55	24.08	25.41	6.05	5.79	2.07
9.5	Bridge									
9	35	22.11	25.27	25.46	23.59	24.09	25.29	5.78	6.05	1.94
8	35	21.41	24.95	23.54	24.39	23.06	24.5	1.52	23.19	0.33
7	35	21.28	22.4	21.92	23.65	23.58	24.39	3.89	9.7	0.91
6	35	20.98	23.3	23.49	23.43	23.43	22.18	3.58	10.32	0.92
5.5	Bridge									
5	35	13.26	16.4	15.77	16.01	16.01	16.49	3.17	12.5	0.71
4	35	12.33	16.54	13.8	14.54	13.88	14.65	1.56	23.88	0.39
3	35	11.28	15.43	12.62	14.36		14.46	1.44	26.61	0.3
2	35	10.9	15.53	11.83	14.35	12.58	14.41	1.14	32.79	0.23
1.5	Culvert									
1	35	9.67	11.3	11.32	14.34	11.84	14.38	1.01	41.86	0.16

Rio Valletta loc. Bastia T=500 anni										
Sezioni	Portata totale (m3/s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m2)	Velocità (m/s)	Area bagnata (m2)	N° Froude
11	42	22.64	24.45	26.64	25.28	25.23	25.84	3.56	13.01	0.71
10	42	22.11	25.27	25.46	25.49	24.27	25.73	2.19	19.68	0.43
9.5	Bridge									
9	42	22.11	25.27	25.46	24.63		25.15	3.21	13.08	0.74
8	42	21.41	24.95	23.54	24.86		24.97	1.48	28.54	0.3
7	42	21.28	22.4	21.92	24.41		24.9	3.19	14.65	0.63
6	42	20.98	23.3	23.49	24.47	23.59	24.73	2.36	18.81	0.47
5.5	Bridge									
5	42	13.26	16.4	15.77	15.87	16.18	16.79	4.32	10.67	1
4	42	12.33	16.54	13.8	15.01	13.98	15.1	1.39	31.72	0.31
3	42	11.28	15.43	12.62	14.88		14.97	1.38	33.58	0.26
2	42	10.9	15.53	11.83	14.87	12.71	14.93	1.13	40.26	0.21
1.5	Culvert									
1	42	9.67	11.3	11.32	14.86	11.97	14.91	1.08	48.06	0.16