

GEOMORPHIC FIELD DATA COLLECTION SHEET AND PROTOCOL

Field Site:

Crew Leader:

Date: _____

Stream/Reach:

Crew Members:

1. Field Equipment Checklist	N/A	#
<input type="checkbox"/> Data collection sheets and pencils	<input type="checkbox"/>	
<input type="checkbox"/> GPS, <i>charged</i>	<input type="checkbox"/>	
<input type="checkbox"/> Surveyor's level	<input type="checkbox"/>	
<input type="checkbox"/> Tripod	<input type="checkbox"/>	
<input type="checkbox"/> Stadia rod	<input type="checkbox"/>	
<input type="checkbox"/> Measuring tape	<input type="checkbox"/>	
<input type="checkbox"/> Gravelometer	<input type="checkbox"/>	
<input type="checkbox"/> Marking tape/flags	<input type="checkbox"/>	

2. Personal Equipment Checklist	
<input type="checkbox"/> Water and food	<input type="checkbox"/> Sunscreen and hat
<input type="checkbox"/> Proper clothing and footwear	<input type="checkbox"/> Backpack

2. a Lab Checklist (Post-field)
<input type="checkbox"/> Equipment returned to the proper place
<input type="checkbox"/> GPS unit charging
<input type="checkbox"/> Data sheet completed and submitted
<input type="checkbox"/> Field lab locked

Steps for each sampling reach:

3.1 Transect spacing = _____m

3.2 Dominant land use (% area of each):

- ☐ Agriculture
☐ Pasture/Range
☐ Forest
☐ Urban
☐ Mixed
☐ Other

Mixed or Other details:

3.3 Major Human Influences (Indicate all that apply):

- ☐ Logging ☐ Mining
☐ Grazing ☐ Roads
☐ Urbanization ☐ Dams
☐ Diversions ☐ Other (specify):

4. Steps for each cross-sectional transect:

Transect (up to downstream):	T1	T2	T3	T4
4.1 Bankfull width				
4.2 Thalweg to left bankfull margin				
4.3 Thalweg to right bankfull margin				
4.4 Bankfull channel depth at thalweg				

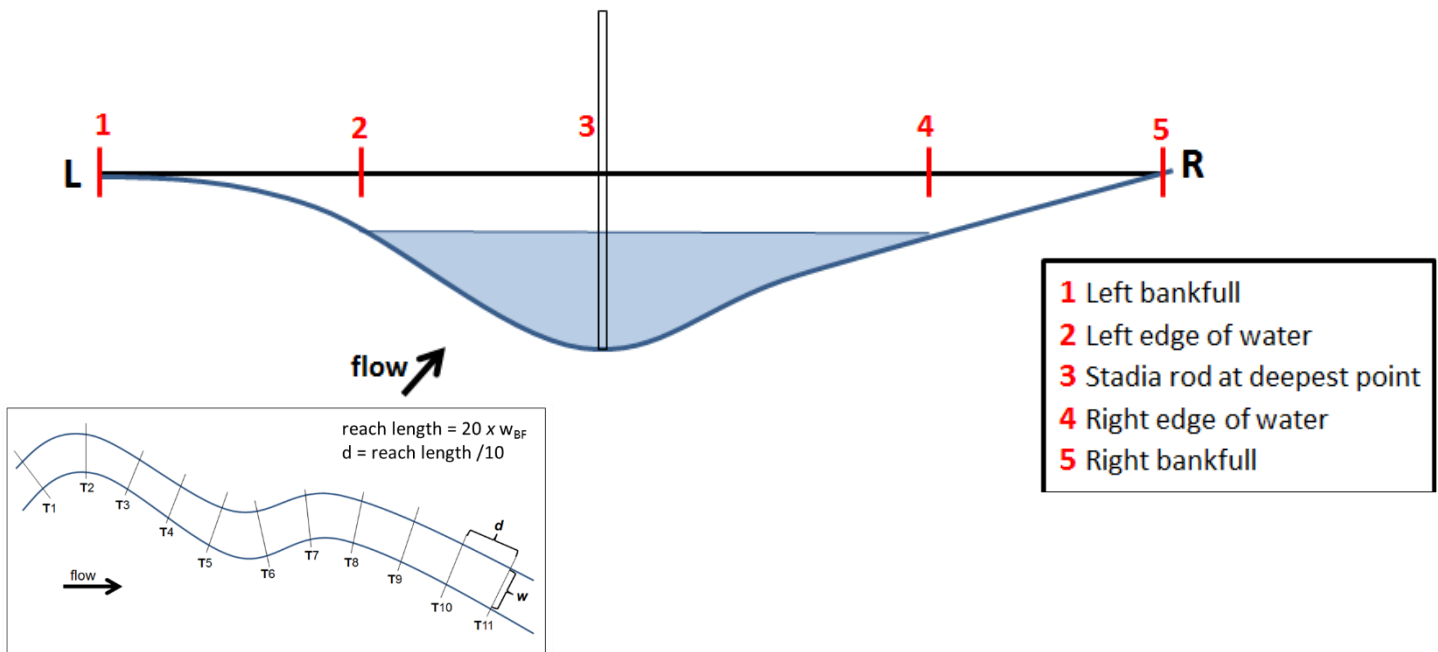
5. Particle class size (# per class, 8 per transect):

	T1	T2	T3	T4
<2 mm				
2.8				
4				
5.6				
8				
11				
16				
22.6				
32				
45				
64				
90				
128				
190				
190 mm – 1 m				
>1 m boulder				
bedrock				

6. Longitudinal Profile

Transect	Surveyor's level reading	Water Depth (m)	Indicate starting transect (X)	Backsight reading (if needed)
1				
2				
3				
4				

7. Complementary material:



Slope Measurement

Bed Slope:
Vertical height = survey reading 1 – survey reading 2

Water Surface Slope:
Vertical height = [survey reading 1 – depth 1] – [survey reading 2 – depth 2]

Can get WSS by measuring bed elevation right at water's edge

