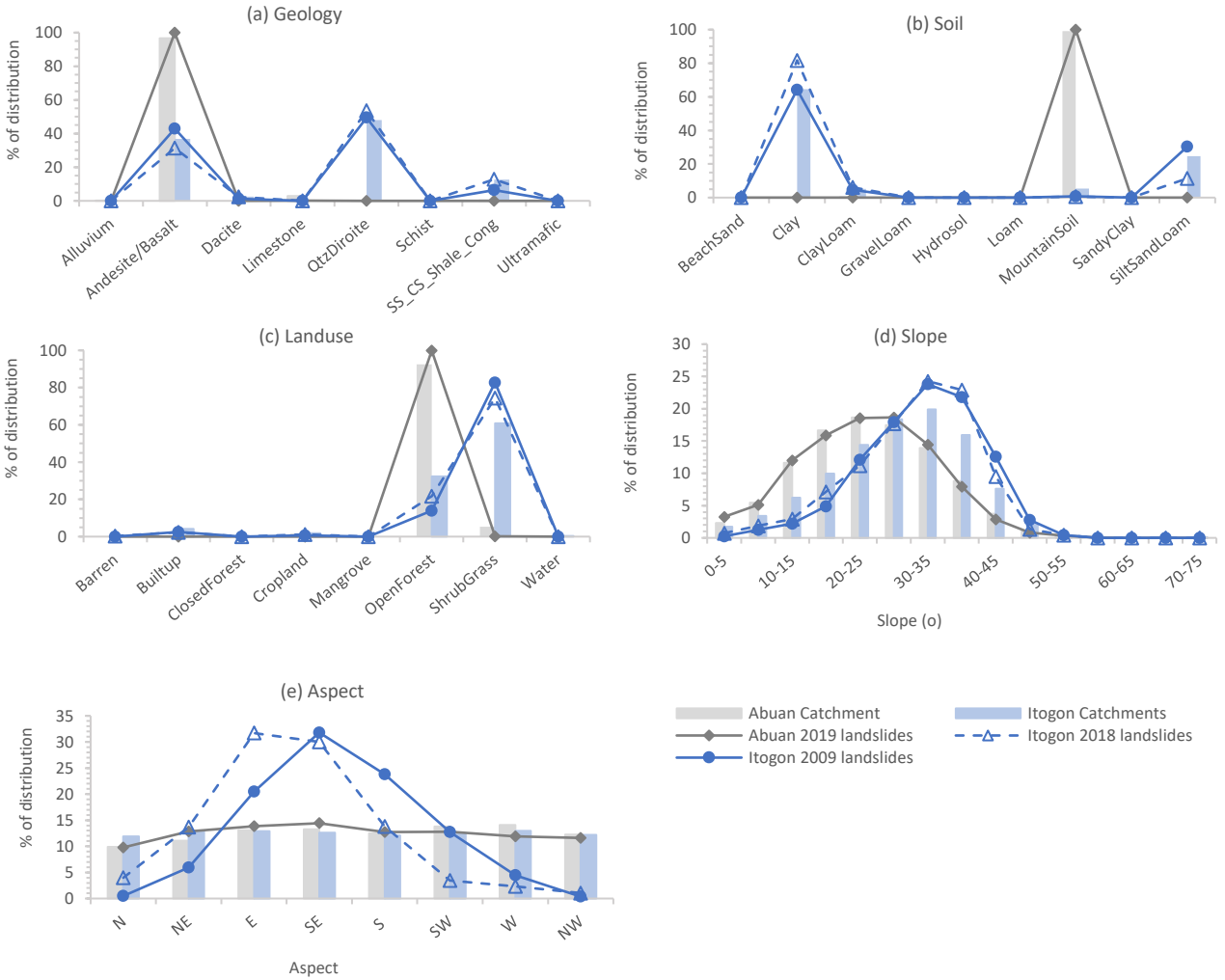
(a) Geology
% of distribution
100
80
60
40
20
0
Alluvium
Andesite/Basalt
Dacite
Limestone
QtzDiroite
Schist
SS_CS_Shale_Cong
Ultramafic
(b) Soil
% of distribution
BeachSand
Clay
ClayLoam
GravelLoam
Hydrosol
Loam
MountainSoil
SandyClay
SiltSandLoam
(c) Landuse
% of distribution
Barren
Builtup
ClosedForest
Cropland
Mangrove
OpenForest
ShrubGrass
Water
(d) Slope
% of distribution
30
25
20
15
10
5
0
0-5
10-15
20-25
30-35
40-45
50-55
60-65
70-75
Slope (o)
(e) Aspect
% of distribution
35
30
25
20
15
10
5
0
N
NE
E
SE
S
SW
W
NW
Aspect
Abuan Catchment
Abuan 2019 landslides
Itogon 2009 landslides
Itogon Catchments
Itogon 2018 landslides