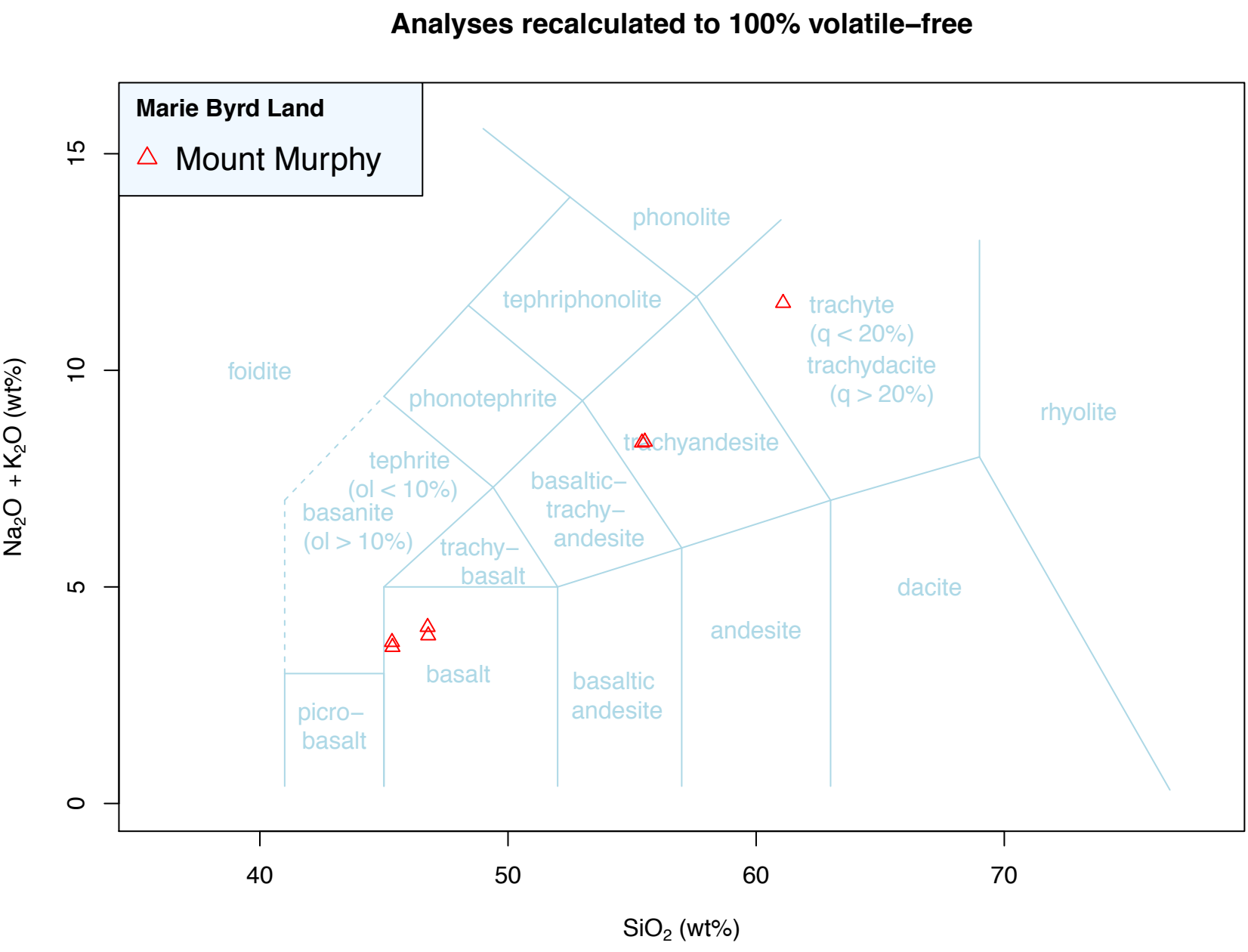
Analyses recalculated to 100% volatile–free
Marie Byrd Land
Mount Murphy
phonolite
tephriphonolite
trachyte
(q < 20%)
trachydacite
(q > 20%)
foidite
phonotephrite
rhyolite
trachyandesite
tephrite
(ol < 10%)
basanite
(ol > 10%)
basaltic–
trachy–
andesite
trachy–
basalt
dacite
andesite
basalt
basaltic
andesite
picro–
basalt
0
5
10
15
40
50
60
70
$Na_2O + K_2O$ (wt%)
SiO_2 (wt%)