

Supplementary Materials

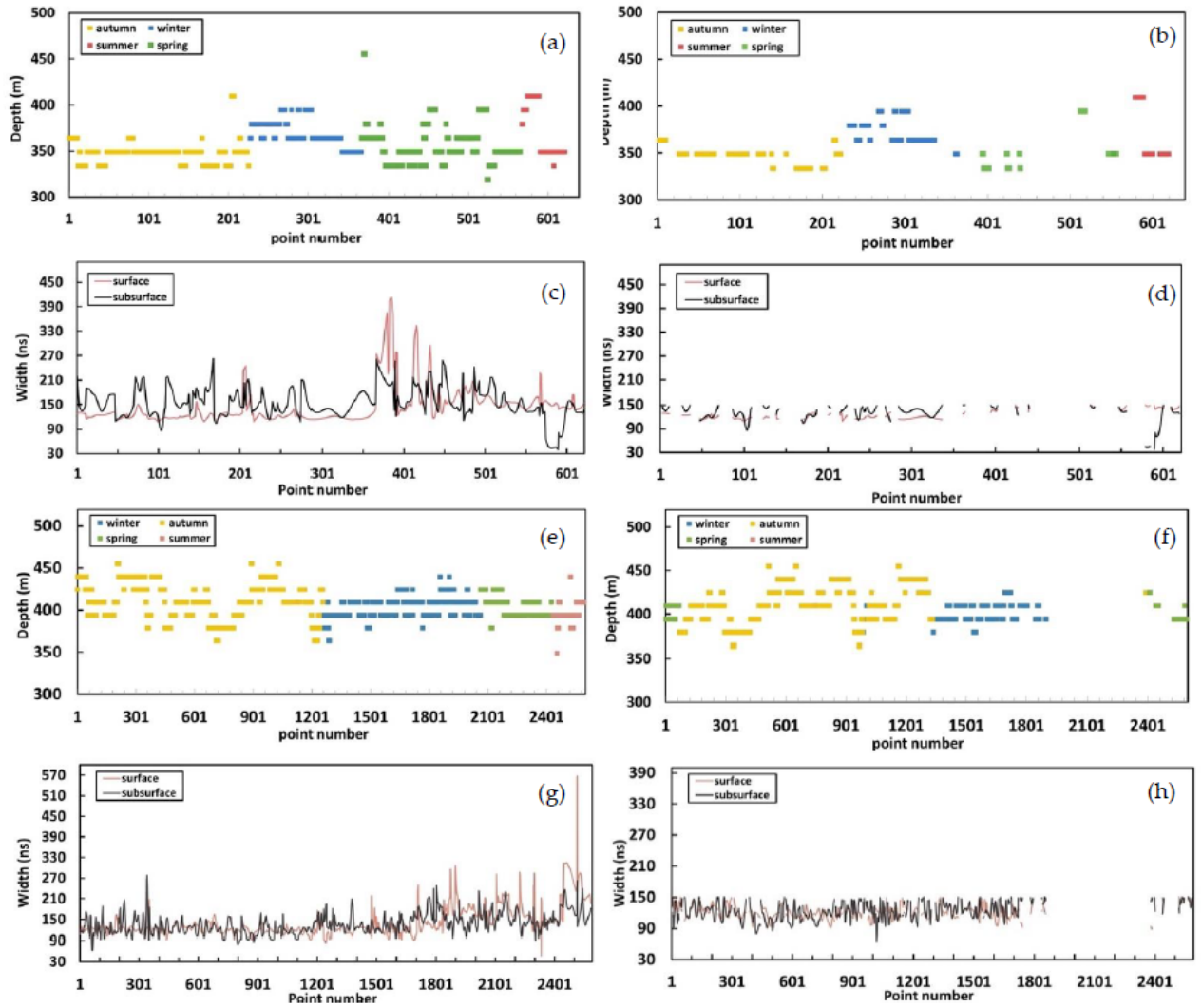
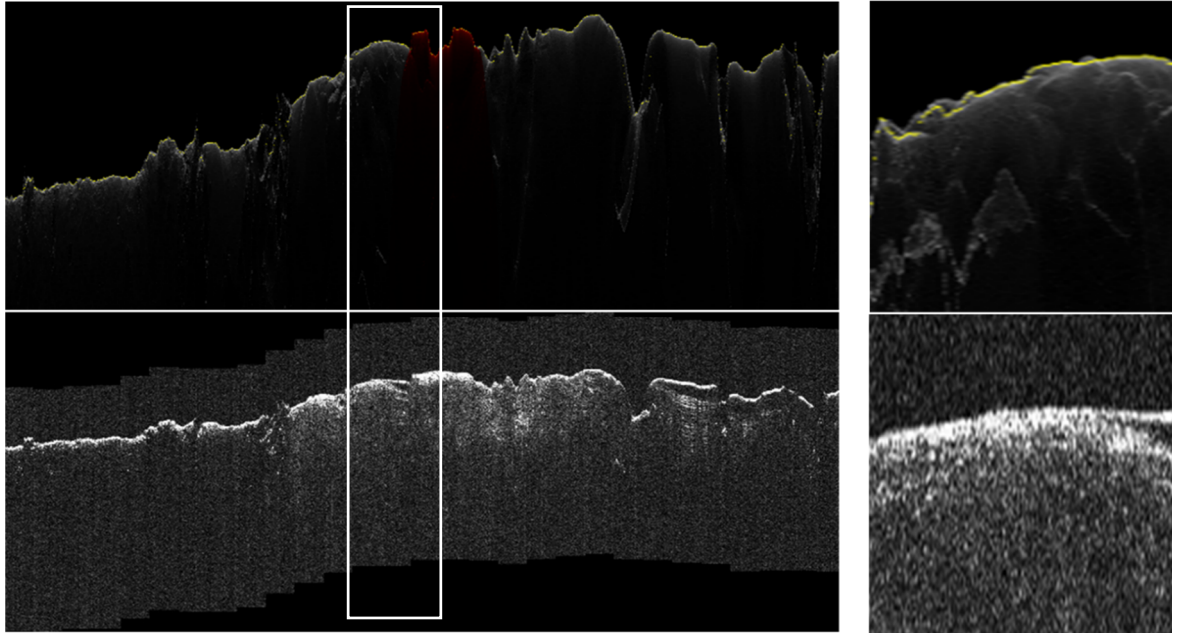


Figure S1. This group of pictures shows the thickness of AA_{3c} and the echo's width of the subsatellite point before and after filtering data in S1 (Figure S1 (a–d)) and S3 (Figure S1 (e–h)). Figure S1 (a,c), respectively, show the thickness of AA_{3c} and the width of the echo at 3dB before filtering the data. In Figure (a) the different colors represent different seasons, the red line in Figure (c) represents the width of the surface echo, and the black line represents the width of the subsurface echo. The right column, or Figure (b) and (d), shows the points of FWHM <150 ns in the same area. Figure S1.(e–h) are the same as above.

(a)

(b)



(c)

(d)

Figure S2. The white box shows the subsurface reflectors in SPLD, the track number is 0564201. (b) is the radargram, (a) is the clutter simulation. (c), (d) are the enlarged views in the white box.

Table S1. This is the supplementary material of Table 4. The index corresponds to that in Table 4. The third column CTX_number indicates the source of each DEM. Ls is the solar longitude corresponding to each CTX.

Region	Index	CTX_number	Ls (Degree)
S1	1	K08_056420_0927_XN_87S072W	227
		K08_056459_0926_XN_87S082W	229
	2	D12_031748_0931_XI_86S094W	313
		D12_031972_0931_XN_86S094W	323
	3	D12_031748_0931_XI_86S094W	313
		D12_031972_0931_XN_86S094W	323
	1	D06_029427_0924_XI_87S072W	201
		D06_029586_0932_XN_86S106W	208
	2	K08_056420_0927_XN_87S072W	227
		K08_056459_0926_XN_87S082W	229
S2	3	K11_057660_0929_XN_87S094W	288
		K11_057673_0930_XN_87S093W	288
	4	J10_048772_0932_XI_86S098W	284
		J10_048864_0933_XN_86S101W	289
	5	D12_031748_0931_XI_86S094W	313
		D12_031972_0931_XN_86S094W	323
	6	G12_022781_0930_XI_87S093W	306
		G12_022979_0931_XI_86S093W	315
	7	G13_023124_0931_XI_86S094W	321
		G13_023295_0923_XI_87S078W	329
	8	D12_032038_0930_XI_87S093W	325
		D12_032090_0920_XI_88S076W	328
	9	P12_005787_0869_XN_86S095W	334
		P12_005863_0883_XI_88S040W	337
	1	D06_029427_0924_XI_87S072W	201
		D06_029586_0932_XN_86S106W	208
S3	2	J10_048772_0932_XI_86S098W	284
		J10_048864_0933_XN_86S101W	289
	3	J13_049945_0927_XN_87S093W	337
		J13_049972_0930_XN_87S102W	338