

Model and loss	Location	IoU	Accuracy	Precision	Recall	f1 - Score	Kappa	Mean IoU
ResUNet Dice + BCE	Himachal	0.838692	0.980577	0.914357	0.910193	0.91227	0.90135	0.7684762
	Himachal Ladakh	0.78497	0.97793	0.907835	0.852942	0.879533	0.867397	
	Sikkim	0.635909	0.989136	0.82777	0.732876	0.777438	0.771889	
	Kashmir	0.760902	0.992935	0.843791	0.885659	0.864218	0.860592	
	Uttarakhand	0.821908	0.940939	0.896747	0.907821	0.90225	0.859939	
ResUNet Dice + IoU + SSIM	Himachal	0.814322	0.976801	0.87908	0.917042	0.89766	-	0.7702172
	Himachal Ladakh	0.80622	0.979379	0.877664	0.908291	0.892715	-	
	Sikkim	0.652876	0.989705	0.837171	0.74784	0.789988	-	
	Kashmir	0.758754	0.992768	0.832066	0.895959	0.862831	-	
	Uttarakhand	0.818914	0.939667	0.892315	0.90872	0.900443	-	
ResUNet + Dice + Tversky	Focal Himachal	0.876076	0.985612	0.945632	0.922543	0.933945	0.925873	0.8195944
	Focal Himachal Ladakh	0.818378	0.98203	0.922468	0.878826	0.900118	0.890251	
	Focal Sikkim	0.763275	0.993283	0.89716	0.83646	0.865747	0.862305	
	Focal Kashmir	0.791271	0.994015	0.873367	0.893818	0.883474	0.880401	
	Focal Uttarakhand	0.848972	0.952881	0.934492	0.902694	0.918318	0.885222	
Segformer B4 Dice + BCE	Himachal	0.896682	0.987921	0.940313	0.950799	0.945527	0.938734	0.7929606
	Himachal Ladakh	0.8129	0.980948	0.895224	0.898372	0.896795	0.8863	
	Sikkim	0.66127	0.989743	0.820254	0.773332	0.796102	0.790845	
	Kashmir	0.765961	0.993222	0.861129	0.87391	0.867472	0.863993	
	Uttarakhand	0.82799	0.94463	0.903475	0.908342	0.905902	0.866677	
Segformer B4 + IoU + SSIM	Dice Himachal	0.847534	0.981601	0.907547	0.927625	0.917476	0.907124	0.756988
	Dice Himachal Ladakh	0.798011	0.978887	0.87069	0.905304	0.887659	0.876012	
	Dice Sikkim	0.608459	0.986152	0.694297	0.831124	0.756574	0.749505	
	Dice Kashmir	0.749551	0.992635	0.84567	0.868329	0.85685	0.853069	
	Dice Uttarakhand	0.781385	0.925563	0.849674	0.906736	0.877278	0.82394	
Segformer B4 Focal + Dice + Tversky	Himachal	0.880589	0.986084	0.94232	0.930758	0.936504	0.928689	0.7880178
	Himachal Ladakh	0.802182	0.979992	0.900083	0.888598	0.890234	0.879227	
	Sikkim	0.671684	0.98935	0.768966	0.841504	0.803601	0.798138	
	Kashmir	0.762116	0.993352	0.89264	0.839022	0.865001	0.861595	
	Uttarakhand	0.823518	0.943615	0.909842	0.896691	0.903219	0.863441	