

Description of EPFD validation and results of examination

Input parameters

Mask link data KU

Mask Id.	Direction	Minimum frequency, MHz	Maximum frequency, MHz	Linked orbit IDs / Satellite IDs
1	↓	10700	12750	All
2	↑	12750	14500	All
3	↔	10700	12750	All

Mask link data KA

Mask Id.	Direction	Minimum frequency, MHz	Maximum frequency, MHz	Linked orbit IDs / Satellite IDs
1	↓	17800	18600	All
3	↔	17800	18400	All
4	↑	27500	30000	All

Common SNS Data KU

Common

A.4.b.7.d.1 Exclusion zone type	A.4.b.7.d.1 Exclusion zone size, degrees
Y - topocentric angle (earth based)	20

Orbits

Apogee/Perigee/Inclination	A.4.b.6.d Uses station keeping	A.4.b.6.e Uses specific precession
1250/1250/87.9 8062/8062/0	No keeping	Default

Uplink

A.4.b.7.b Earth station density (1/km ²)	A.4.b.7.c Average distance (km)	A.4.b.7.a number of satellites receiving simultaneously
3.4E-06	539	2

Downlink

A.4.b.6.a Number of satellites transmitting to any latitude within corresponding range		
From latitude	To latitude	Number
-90	90	1

Common SNS Data KA

Common

A.4.b.7.d.1 Exclusion zone type	A.4.b.7.d.1 Exclusion zone size, degrees
Y - topocentric angle (earth based)	15

Orbits

Apogee/Perigee/Inclination	A.4.b.6.d Uses station keeping	A.4.b.6.e Uses specific precession
1250/1250/87.9 8062/8062/0	No keeping	Default

Uplink

A.4.b.7.b Earth station density (1/km ²)	A.4.b.7.c Average distance (km)	A.4.b.7.a number of satellites receiving simultaneously
1.7E-06	770	50

Downlink

A.4.b.6.a Number of satellites transmitting to any latitude within corresponding range		
From latitude	To latitude	Number
-90	90	30

Group table

<i>Beam(s)</i>	<i>Direction</i>	<i>Minimum frequency, MHz</i>	<i>Maximum frequency, MHz</i>	<i>A.4.b.7.cbis Minimum elevation angle</i>
KUUP, KUUPMEO	R	12750	14500	30
KAUP1, KAUPMEO	R	27500	30000	5
KUDN, KUDNMEO	E	10700	12750	30
KADN1B, KADNMEO2	E	19700	20200	5
KADNMEO	E	17800	18600	5
KADN1	E	17700	18600	5

Results

<i>B1A Beam designation</i>	<i>B2 Emi-Rcp</i>	<i>BR7a Group id./ Target Group id.</i>	<i>GHz</i>	<i>Orbital planes id. no.</i>	<i>Mask ID</i>	<i>Article 22 Limit</i>	<i>Result</i>	<i>Article 22 Examination</i>
KAUP1	R	321765745 / 121673235 321765746 / 121673236 321765747 / 121673237 321765748 / 121673238 321765749 / 121673239	27.5-28.6	1 - 36		TABLE 22-2	Pass	Favorable
KAUP1	R	321765750 / 121673405 321765751 / 121673407 321765752 / 121673409 321765753 / 121673411 321765754 / 121673413	29.5-30	1 - 36		TABLE 22-2	Pass	Favorable
KAUPMEO	R	321765755 / 121673247 321765756 / 121673248 321765757 / 121673249 321765758 / 121673250 321765759 / 121673251 321765768 / 121673270 321765769 / 121673271 321765770 / 121673272 321765771 / 121673273 321765772 / 121673274	27.5-28.6	37		TABLE 22-2	Pass	Favorable
KAUPMEO	R	321765760 / 121673262 321765761 / 121673263 321765762 / 121673264 321765763 / 121673265 321765764 / 121673266 321765765 / 121673267 321765766 / 121673268 321765767 / 121673269 321765773 / 121673285 321765774 / 121673286	29.5-30	37		TABLE 22-2	Pass	Favorable
KUUP	R	321765775 / 121673242 321765776 / 121673243 321765777 / 121673244 321765778 / 121673245 321765779 / 121673246	12.75- 13.25	1 - 36	2	TABLE 22-2	Pass	Favorable
KUUP	R	321765780 / 121673414 321765781 / 121673415 321765782 / 121673416 321765783 / 121673417	14-14.5	1 - 36	2	TABLE 22-2	Pass	Favorable
KUUP	R	321765784 / 121673418	13.75-14.5	1 - 36	2	TABLE 22-2	Pass	Favorable
KUUPMEO	R	321765785 / 121673333 321765786 / 121673334 321765787 / 121673335 321765788 / 121673336 321765789 / 121673337	12.75- 13.25	37	2	TABLE 22-2	Pass	Favorable
KUUPMEO	R	321765790 / 121673419 321765791 / 121673420 321765792 / 121673421 321765793 / 121673422	14-14.5	37	2	TABLE 22-2	Pass	Favorable
KUUPMEO	R	321765794 / 121673423	13.75-14.5	37	2	TABLE 22-2	Pass	Favorable
KADN1	E	321765627 / 121673213 321765628 / 121673214 321765629 / 121673215	17.7-17.95	1 - 36		TABLE 22-1B TABLE 22-3	Pass Pass	Favorable

		321765630 / 121673216 321765631 / 121673217						
KADN1	E	321765632 / 121673374 321765634 / 121673377 321765636 / 121673380 321765638 / 121673383 321765640 / 121673386	17.8-18.3	1 - 36		TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KADN1	E	321765633 / 121673375 321765635 / 121673378 321765637 / 121673381 321765639 / 121673384 321765641 / 121673387	18.3-18.6	1 - 36		TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KADN1B	E	321765642 / 121673369 321765643 / 121673370 321765644 / 121673371 321765645 / 121673372 321765646 / 121673373	19.7-20.2	1 - 36		TABLE 22-1C	N/A	Qualified Favourable
KADNMEO	E	321765647 / 121673298 321765648 / 121673299 321765649 / 121673300 321765650 / 121673301 321765651 / 121673302 321765657 / 121673318 321765658 / 121673319 321765659 / 121673320 321765660 / 121673321 321765661 / 121673322 321765667 / 121687583 321765669 / 121687586 321765671 / 121687589 321765673 / 121687592	17.8-18.1	37		TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KADNMEO	E	321765652 / 121673308 321765653 / 121673309 321765654 / 121673310 321765655 / 121673311 321765656 / 121673312 321765662 / 121673328 321765663 / 121673329 321765664 / 121673330 321765665 / 121673331 321765666 / 121673332 321765668 / 121687584 321765670 / 121687587 321765672 / 121687590 321765674 / 121687593	18.1-18.6	37		TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KADNMEO2	E	321765675 / 121673353 321765676 / 121673354 321765677 / 121673355 321765678 / 121673356 321765679 / 121673357 321765680 / 121673358 321765681 / 121673359 321765682 / 121673360 321765683 / 121673361 321765684 / 121673362	19.7-20.2	37		TABLE 22-1C	N/A	Qualified Favourable
KUDN	E	321765685 / 121673220 321765687 / 121673222 321765689 / 121673224 321765691 / 121673226 321765693 / 121673228	10.7-11.45	1 - 36	1, 3	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KUDN	E	321765686 / 121673221 321765688 / 121673223 321765690 / 121673225 321765692 / 121673227 321765694 / 121673229	11.7-12.2	1 - 36	1	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
KUDN	E	321765695 / 121673230 321765696 / 121673231 321765697 / 121673232 321765698 / 121673233 321765699 / 121673234	12.5-12.75	1 - 36	1, 3	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
KUDN	E	321765700 / 121673389 321765703 / 121673392 321765706 / 121673395	10.95-11.2	1 - 36	1, 3	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable

		321765709 / 121673398 321765712 / 121673401						
KUDN	E	321765701 / 121673390 321765704 / 121673393 321765707 / 121673396 321765710 / 121673399 321765713 / 121673402	11.45-11.7	1 - 36	1, 3	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KUDN	E	321765702 / 121673391 321765705 / 121673394 321765708 / 121673397 321765711 / 121673400 321765714 / 121673403	12.2-12.7	1 - 36	1, 3	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
KUDNMEO	E	321765715 / 121673338 321765717 / 121673340 321765719 / 121673342 321765721 / 121673344 321765723 / 121673346	10.7-11.45	37	1, 3	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KUDNMEO	E	321765716 / 121673339 321765718 / 121673341 321765720 / 121673343 321765722 / 121673345 321765724 / 121673347	11.7-12.2	37	1	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
KUDNMEO	E	321765725 / 121673348 321765726 / 121673349 321765727 / 121673350 321765728 / 121673351 321765729 / 121673352	12.5-12.75	37	1, 3	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
KUDNMEO	E	321765730 / 121673424 321765733 / 121673427 321765736 / 121673430 321765739 / 121673433 321765742 / 121673436	10.95-11.2	37	1, 3	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KUDNMEO	E	321765731 / 121673425 321765734 / 121673428 321765737 / 121673431 321765740 / 121673434 321765743 / 121673437	11.45-11.7	37	1, 3	RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KUDNMEO	E	321765732 / 121673426 321765735 / 121673429 321765738 / 121673432 321765741 / 121673435 321765744 / 121673438	12.2-12.7	37	1, 3	RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable

Notes:

1. Findings are promulgated as favorable when all applicable limits in Article 22 are met for given group of frequency assignments in all applicable scenarios.
2. The Result column can be either Pass or Fail (see Rec. ITU-R S.1503-2). N/A (Non Applicable) refers to the case when an applicable Article 22 limit is not examined in the current scenario.
3. Qualified Favorable is established due to continuous application of Resolution 85 (WRC-03) on request by the notifying administration.