

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
4	↓	17800	18600	All
6	↔	17800	18600	All
7	↑	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)	24

Orbits

Apogee/Perigee/Inclination	A.4.b.6.d Uses station keeping	A.4.b.6.e Uses specific precession
1250/1250/40 8062/8062/0 1250/1250/55	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	540	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)	18

Orbits

Apogee/Perigee/Inclination	A.4.b.6.d Uses station keeping	A.4.b.6.e Uses specific precession
1250/1250/55 1250/1250/40 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
1.9E-06	737	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	10
KUDN, KUDNMEO	E	10700	12750	30
KADN1B, KADNMEO2	E	19700	20200	10
KADNMEO	E	17800	18600	10
KADN1	E	17700	18600	10

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	321768733 / 121673895 321768734 / 121673896 321768735 / 121673898 321768736 / 121673899 321768737 / 121673900	27.5-28.6	1 - 64	7	TABLE 22-2	Pass	Favorable
KAUP1	R	321768738 / 121674067 321768739 / 121674069 321768740 / 121674071 321768741 / 121674073 321768742 / 121674075	29.5-30	1 - 64	7	TABLE 22-2	Pass	Favorable
KAUPMEO	R	321768743 / 121673908 321768744 / 121673909 321768745 / 121673910 321768746 / 121673911 321768747 / 121673912 321768756 / 121673932 321768757 / 121673933 321768758 / 121673934 321768759 / 121673935 321768760 / 121673936	27.5-28.6	65	7	TABLE 22-2	Pass	Favorable
KAUPMEO	R	321768748 / 121673924 321768749 / 121673925 321768750 / 121673926 321768751 / 121673927 321768752 / 121673928 321768753 / 121673929 321768754 / 121673930 321768755 / 121673931 321768761 / 121673947 321768762 / 121673948	29.5-30	65	7	TABLE 22-2	Pass	Favorable
KUUP	R	321768763 / 121673903 321768764 / 121673904 321768765 / 121673905 321768766 / 121673906 321768767 / 121673907	12.75- 13.25	1 - 64		TABLE 22-2	Pass	Favorable
KUUP	R	321768768 / 121674076 321768769 / 121674077 321768770 / 121674078 321768771 / 121674079	14-14.5	1 - 64		TABLE 22-2	Pass	Favorable
KUUP	R	321768772 / 121674080	13.75-14.5	1 - 64		TABLE 22-2	Pass	Favorable
KUUPMEO	R	321768773 / 121673995 321768774 / 121673996 321768775 / 121673997 321768776 / 121673998 321768777 / 121673999	12.75- 13.25	65		TABLE 22-2	Pass	Favorable
KUUPMEO	R	321768778 / 121674081 321768779 / 121674082 321768780 / 121674083 321768781 / 121674084	14-14.5	65		TABLE 22-2	Pass	Favorable
KUUPMEO	R	321768782 / 121674085	13.75-14.5	65		TABLE 22-2	Pass	Favorable
KADN1	E	321768619 / 121673872 321768620 / 121673873 321768621 / 121673874	17.7-17.95	1 - 64	4, 6	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable

		321768622 / 121673875 321768623 / 121673876						
KADN1	E	321768624 / 121674036 321768626 / 121674039 321768628 / 121674042 321768630 / 121674045 321768632 / 121674048	17.8-18.3	1 - 64	4, 6	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KADN1	E	321768625 / 121674037 321768627 / 121674040 321768629 / 121674043 321768631 / 121674046 321768633 / 121674049	18.3-18.6	1 - 64	4, 6	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KADN1B	E	321768634 / 121674031 321768635 / 121674032 321768636 / 121674033 321768637 / 121674034 321768638 / 121674035	19.7-20.2	1 - 64		TABLE 22-1C	N/A	Qualified Favourable
KADNMEO	E	321768639 / 121673960 321768640 / 121673961 321768641 / 121673962 321768642 / 121673963 321768643 / 121673964 321768649 / 121673980 321768650 / 121673981 321768651 / 121673982 321768652 / 121673983 321768653 / 121673984 321768659 / 121680461 321768661 / 121680464	17.8-18.1	65	4, 6	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KADNMEO	E	321768644 / 121673970 321768645 / 121673971 321768646 / 121673972 321768647 / 121673973 321768648 / 121673974 321768654 / 121673990 321768655 / 121673991 321768656 / 121673992 321768657 / 121673993 321768658 / 121673994 321768660 / 121680462 321768662 / 121680465	18.1-18.6	65	4, 6	TABLE 22-1B TABLE 22-3	Pass Pass	Favorable
KADNMEO2	E	321768663 / 121674015 321768664 / 121674016 321768665 / 121674017 321768666 / 121674018 321768667 / 121674019 321768668 / 121674020 321768669 / 121674021 321768670 / 121674022 321768671 / 121674023 321768672 / 121674024	19.7-20.2	65		TABLE 22-1C	N/A	Qualified Favourable
KUDN	E	321768673 / 121673880 321768675 / 121673882 321768677 / 121673884 321768679 / 121673886 321768681 / 121673888	10.7-11.45	1 - 64		RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KUDN	E	321768674 / 121673881 321768676 / 121673883 321768678 / 121673885 321768680 / 121673887 321768682 / 121673889	11.7-12.2	1 - 64		RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
KUDN	E	321768683 / 121673890 321768684 / 121673891 321768685 / 121673892 321768686 / 121673893 321768687 / 121673894	12.5-12.75	1 - 64		RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
KUDN	E	321768688 / 121674051 321768691 / 121674054 321768694 / 121674057 321768697 / 121674060 321768700 / 121674063	10.95-11.2	1 - 64		RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable

KUDN	E	321768689 / 121674052 321768692 / 121674055 321768695 / 121674058 321768698 / 121674061 321768701 / 121674064	11.45-11.7	1 - 64		RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KUDN	E	321768690 / 121674053 321768693 / 121674056 321768696 / 121674059 321768699 / 121674062 321768702 / 121674065	12.2-12.7	1 - 64		RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
KUDNME0	E	321768703 / 121674000 321768705 / 121674002 321768707 / 121674004 321768709 / 121674006 321768711 / 121674008	10.7-11.45	65		RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KUDNME0	E	321768704 / 121674001 321768706 / 121674003 321768708 / 121674005 321768710 / 121674007 321768712 / 121674009	11.7-12.2	65		RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D	Pass Pass Pass Pass	Favorable
KUDNME0	E	321768713 / 121674010 321768714 / 121674011 321768715 / 121674012 321768716 / 121674013 321768717 / 121674014	12.5-12.75	65		RR 22.5C4 RR 22.5C8 TABLE 22-1A TABLE 22-1D TABLE 22-3	Pass Pass Pass Pass Pass	Favorable
KUDNME0	E	321768718 / 121674086 321768721 / 121674089 321768724 / 121674092 321768727 / 121674095 321768730 / 121674098	10.95-11.2	65		RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KUDNME0	E	321768719 / 121674087 321768722 / 121674090 321768725 / 121674093 321768728 / 121674096 321768731 / 121674099	11.45-11.7	65		RR 22.5C4 TABLE 22-1A TABLE 22-3	Pass Pass Pass	Favorable
KUDNME0	E	321768720 / 121674088 321768723 / 121674091 321768726 / 121674094 321768729 / 121674097 321768732 / 121674100	12.2-12.7	65		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.