

Poland

Attachment 1

QUESTIONNAIRE - PART I
 Information on national radio frequency spectrum allocations in Poland: 960 - 3 000 MHz

Allocation to services 960 - 3 100 MHz in Poland

Region 1		Region 2		Region 3	National Allocation		Application & Comment
960-1 215		AERONAUTICAL RADIONAVIGATION 5.328			960-1 215 AERONAUTICAL RADIONAVIGATION 5.328		civil and government
1 215-1 240		EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.329 5.329A SPACE RESEARCH (active) 5.330 5.331 5.332			1 215-1 240 RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) 5.329		government government
1 240-1 26		EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.329 5.329A SPACE RESEARCH (active) Amateur 5.330 5.331 5.332 5.334 5.335			1 240-1 26 RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) Amateur 5.329		government government civil

National Allocation			Application & Comment
Region 1	Region 2	Region 3	National Allocation
1 260-1 300	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.329 5.329A SPACE RESEARCH (active) Amateur 5.282 5.330 5.331 5.334 5.335 5.335A		1 260-1 300 RADIOLOCATION Amateur 5.282 1 300-1 350 AERONAUTICAL RADIONAVIGATION 5.337 RADIOLOCATION 5.149
1 300-1 350	AERONAUTICAL RADIONAVIGATION 5.337 RADIOLOCATION RADIONAVIGATION SATELLITE (Earth-to-space) 5.149 5.337A		1 300-1 350 AERONAUTICAL RADIONAVIGATION 5.337 RADIOLOCATION 5.149
1 350-1 400 FIXED MOBILE RADIOLOCATION	1 350-1 400 RADIOLOCATION		1 350-1 400 FIXED RADIOLOCATION RADIONAVIGATION SATELLITE(space-to Earth) MOBILE 5.149 5.338 5.339
5.149 5.338 5.339	5.149 5.334 5.339		5.149 5.339 1 400-1 427 RADIO ASTRONOMY 5.340 5.341
1 400-1 427	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341		1 400-1 427 RADIO ASTRONOMY 5.340 5.341

National Allocation			Application & Comment
Region 1	Region 2	Region 3	
1 427-1 429	SPACE OPERATION (Earth-to-space) FIXED MOBILE except aeronautical mobile 5.341		1 427-1 429 FIXED MOBILE except aeronautical mobile 5.341 civil and government government
1 429-1 452 FIXED MOBILE except aeronautical mobile 5.341 5.342	1 429-1 452 FIXED MOBILE 5.343		1 429-1 452 FIXED MOBILE except aeronautical mobile 5.341 civil and government government
1 452-1 492 FIXED MOBILE except aeronautical mobile BROADCASTING 5.345 5.347 BROADCASTING- SATELLITE 5.345 5.347	1 452-1 492 FIXED MOBILE 5.343 BROADCASTING 5.345 5.347 BROADCASTING-SATELLITE 5.345 5.347		1 452-1 467,5 BROADCASTING 5.342 5.345 Fixed POL. 15 civil government
5.341 5.342	5.341 5.344		1 467,5-1 492 BROADCASTING-SATELLITE 5.345 Fixed POL. 15 5.341 civil government
1 492-1 525 FIXED MOBILE except aeronautical mobile	1 492-1 525 FIXED MOBILE 5.343 MOBILE-SATELLITE (space-to-Earth) 5.348A	1 492-1 525 FIXED MOBILE	1 492-1 525 FIXED MOBILE except aeronautical mobile government government

National Allocation			Application & Comment
Region 1	Region 2	Region 3	National Allocation
5.341 5.342 I 525-1 530 SPACE OPERATION (space-to-Earth) FIXED MOBILE-SATELLITE (space-to-Earth) 5.351A Earth exploration-satellite Mobile except aeronautical mobile 5.349 5.341 5.342 5.350 5.351 5.352A 5.354	5.341 5.344 5.348 I 525-1 530 SPACE OPERATION (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.351A Earth exploration-satellite Fixed Mobile 5.343 5.341 5.351 5.354	5.341 5.348A I 525-1 530 SPACE OPERATION (space-to-Earth) FIXED MOBILE-SATELLITE (space-to-Earth) 5.351A Earth exploration-satellite Mobile 5.349 5.341 5.351 5.352A 5.354	5.341 I 525-1 530 MOBILE-SATELLITE (space-to-Earth) Mobile except aeronautical mobile Fixed 5.341 5.351 5.354 5.351A
I 530-1 535 SPACE OPERATION (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.351A 5.352A Earth exploration-satellite Fixed Mobile except aeronautical mobile 5.341 5.342 5.351 5.354	I 530-1 535 SPACE OPERATION (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.351A 5.353A Earth exploration-satellite Fixed Mobile 5.343 5.341 5.351 5.354	I 530-1 535 SPACE OPERATION (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.351A 5.353A Earth exploration-satellite Fixed Mobile 5.343 5.341 5.351 5.354	I 530-1 535 MOBILE-SATELLITE(space-to-Earth) 5.353A Mobile except aeronautical mobile Fixed 5.341 5.351 5.354 5.351A
I 535-1 559 5.341 5.342 5.351 5.354	I 535-1 544 MOBILE-SATELLITE (space-to-Earth) 5.351A 5.341 5.351 5.353A 5.354 5.355 5.356 5.357 5.357A 5.359 5.362A	I 535-1 544 MOBILE-SATELLITE (space-to-Earth) 5.351A 5.341 5.351 5.354 5.351A	I 535-1 544 MOBILE-SATELLITE (space-to-Earth) 5.353A 5.341 5.351 5.354 5.351A I 544-1 545 MOBILE-SATELLITE (space-to-Earth) 5.341 5.354 5.356

National Allocation			Application & Comment
Region 1	Region 2	Region 3	National Allocation
			1 5545-1 555 MOBILE-SATELLITE (space-to-Earth) FIXED 5.359 5.341 5.351 5.354 5.357 5.357A 5.351A
			1 555-1 559 MOBILE-SATELLITE (space-to-Earth) FIXED 5.359 5.341 5.351 5.354 5.351A
			1 559-1 610 RADIONAVIGATION-SATELLITE (space-to-Earth) FIXED 5.359 5.341
			1 610-1 610.6 MOBILE-SATELLITE (Space to Earth-) FIXED 5.359
			1 559-1 610 AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.329A 5.341 5.362B 5.362C 5.363
			1 610-1 610.6 MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIONAVIGATION RADIODETERMINATION-SATELLITE (Earth-to-space)
			1 610-1 610.6 MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIONAVIGATION Radiodetermination-satellite (Earth-to-space)
			5.341 5.355 5.359 5.364 5.366 5.367 5.368 5.369 5.372
			5.341 5.364 5.366 5.367 5.368 5.372 5.351A
			5.341 5.355 5.359 5.364 5.366 5.367 5.368 5.370 5.372
			5.341 5.355 5.359 5.363 5.364 5.366 5.367 5.368 5.369 5.371 5.372

National Allocation			Application & Comment	
Region 1	Region 2	Region 3	National Allocation	
<p>1 610.6-1 613.8 MOBILE-SATELLITE (Earth-to-space) 5.351A RADIO ASTRONOMY AERONAUTICAL RADIIONAVIGATION</p> <p>5.149 5.341 5.355 5.359 5.363 5.364 5.366 5.367 5.368 5.369 5.371 5.372</p>	<p>1 610.6-1 613.8 MOBILE-SATELLITE (Earth-to-space) 5.351A RADIO ASTRONOMY AERONAUTICAL RADIIONAVIGATION RADIODETERMINATION- SATELLITE (Earth-to- space)</p> <p>5.149 5.341 5.364 5.366 5.367 5.368 5.370 5.372</p>	<p>1 610.6-1 613.8 MOBILE-SATELLITE (Earth-to-space) 5.351A RADIO ASTRONOMY AERONAUTICAL RADIIONAVIGATION Radiodetermination- satellite (Earth-to-space)</p> <p>5.149 5.341 5.355 5.359 5.364 5.366 5.367 5.368 5.369 5.372</p>	<p>1 610.6-1 613.8 MOBILE-SATELLITE (Space to Earth-) RADIO ASTRONOMY FIXED 5.359</p> <p>5.149 5.341 5.364 5.366 5.367 5.368 5.372 5.351A</p>	<p>civil civil government</p>
<p>1 613.8-1 626.5 MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIIONAVIGATION Mobile-satellite (space-to-Earth)</p> <p>5.341 5.355 5.359 5.363 5.364 5.365 5.366 5.367 5.368 5.369 5.371 5.372</p>	<p>1 613.8-1 626.5 MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIIONAVIGATION RADIODETERMINATION- SATELLITE (Earth-to-space) Mobile-satellite (space-to- Earth)</p> <p>5.341 5.364 5.365 5.366 5.367 5.368 5.370 5.372</p>	<p>1 613.8-1 626.5 MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIIONAVIGATION Mobile-satellite (space- to-Earth) Radiodetermination- satellite (Earth-to-space)</p> <p>5.341 5.355 5.359 5.364 5.365 5.366 5.367 5.368 5.369 5.372</p>	<p>1 613.8-1 626.5 MOBILE-SATELLITE (space to Earth) FIXED 5.359</p> <p>5.341 5.364 5.365 5.366 5.367 5.368 5.351A</p>	<p>civil government</p>

48 22 6219968 P.07

MTIGM DEP. INTER. EUROP.

07-NOV-2002 09:32

National Allocation			Application & Comment
Region 1	Region 2	Region 3	National Allocation
1 626.5-1 660	MOBILE-SATELLITE (Earth-to-space) 5.351A		1 626.5-1 631.5 MOBILE-SATELLITE (Earth-to-space) FIXED 5.359 5.341 5.353A 5.354 5.351A
			1 631.5-1 634.5 MOBILE-SATELLITE (Earth-to-space) FIXED 5.359 5.341 5.351 5.353A 5.354 5.374 5.351A
			1 634.5-1 645.5 MOBILE-SATELLITE (Earth-to-space) FIXED 5.359 5.341 5.351 5.353A 5.354 5.351A
			1 645.5-1 646.5 MOBILE-SATELLITE (Earth-to-space) 5.341 5.354 5.376
			1 646.5-1 656.5 MOBILE-SATELLITE (Earth-to-space) FIXED 5.359 5.341 5.351 5.354 5.357A 5.376 5.351A
			1 656.5-1 660.0 MOBILE-SATELLITE (Earth-to-space) FIXED 5.359 5.341 5.351 5.354 5.374 5.351A
5.341 5.351 5.353A 5.354 5.355 5.357A 5.359 5.362A 5.374 5.375 5.376			1 660.0-1 660.5 MOBILE-SATELLITE (Earth-to-space) FIXED 5.359 5.149 5.341 5.351 5.354 5.376A 5.351A
1 660-1 660.5	MOBILE-SATELLITE (Earth-to-space) 5.351A RADIO ASTRONOMY 5.149 5.341 5.351 5.354 5.362A 5.376A		1 660.0-1 660.5 MOBILE-SATELLITE (Earth-to-space) FIXED 5.359 5.149 5.341 5.351 5.354 5.376A 5.351A

National Allocation			Application & Comment
Region 1	Region 2	Region 3	National Allocation
1 660.5-1 668.4	RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile 5.149 5.341 5.379 5.379A		1 660.5-1 668.4 RADIO ASTRONOMY Fixed 5.149 5.341 5.379A
1 668.4-1 670	METEOROLOGICAL AIDS FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY 5.149 5.341		1 668.4-1 670 METEOROLOGICAL AIDS FIXED RADIO ASTRONOMY 5.149 5.341
1 670-1 675	METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE 5.380 5.341		1 670-1 675 FIXED METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE 5.380 5.341
1 675-1 690	METEOROLOGICAL AIDS FIXED METEOROLOGICAL SATELLITE (space-to-Earth) MOBILE except aeronautical mobile MOBILE-SATELLITE (Earth-to-space) 5.341 5.377	1 675-1 690 METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.341	1 675-1 690 FIXED METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) 5.341

National Allocation				Application & Comment
Region 1	Region 2	Region 3	National Allocation	
1 690-1 700 METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) Fixed Mobile except aeronautical mobile 5.289 5.341 5.382	1 690-1 700 METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (Earth-to-space) 5.289 5.341 5.377 5.381	1 690-1 700 METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) 5.289 5.341 5.381	1 690-1 700 METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) FIXED 5.382 Mobile except aeronautical mobile 5.382	civil and government civil and government government government
1 700-1 710 FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.289 5.341	1 700-1 710 FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile MOBILE-SATELLITE (Earth-to-space) 5.289 5.341 5.377	1 700-1 710 FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.289 5.341 5.384	1 700-1 710 FIXED METEOROLOGICAL-SATELLITE (space-to-Earth)	civil and government civil and government
1 710-1 930 5.289 5.341	FIXED MOBILE 5.380 5.3845.388A	5.289 5.341 5.384	5.289 5.341 1 710-1 770 FIXED MOBILE 5.149 5.341 5.385 5.384A 1 770-1 800 FIXED MOBILE METEOROLOGICAL-SATELLITE (space-to-Earth) 5.384A	civil and government civil and government civil and government civil civil and government

National Allocation			National Allocation		Application & Comment
Region 1	Region 2	Region 3	National Allocation		
	5.149 5.341 5.385 5.386 5.387 3885.		1 800-1 930 FIXED MOBILE 5.380 5.384A 5.388 5.388A POL. 19		civil and government civil
1 930-1 970 FIXED MOBILE 5.388A	1 930-1 970 FIXED MOBILE 5.388A Mobile-satellite (Earth-to-space) 5.388	1 930-1 970 FIXED MOBILE 5.388A	1 930-1 970 MOBILE Fixed		civil civil
5.388		5.388	5.388 5.388A POL 19		
1 970-1 980	FIXED MOBILE 5.388A 5.388		1 970-1 980 MOBILE Fixed 5.388 5.388A POL 19		civil civil
1 980-2 010	FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) 5.351A 5.388 5.389A 5.389B 5.389F		1 980-2 010 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space)		government government civil
2 010-2 025 FIXED MOBILE 5.388A 5.388	2 010-2 025 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) 5.388 5.389C 5.389D 5.389E 5.390	2 010-2 025 FIXED MOBILE 5.388A 5.388	2 010-2 025 MOBILE Fixed 5.351A 5.388 5.389A		civil civil
			5.388 5.388A POL. 20		

Region 1		Region 2		Region 3		National Allocation		Application & Comment
2 025-2 110	SPACE OPERATION (Earth-to-space) (space-to-space) EARTH EXPLORATION-SATELLITE (Earth-to-space) (space-to-space) FIXED MOBILE 5.391 SPACE RESEARCH (Earth-to-space) (space-to-space) 5.392						2 025-2 110 FIXED MOBILE 5.391 5.392	civil government
2 110-2 120	FIXED MOBILE 5.388A SPACE RESEARCH (deep space) (Earth-to-space) 5.388						2 110-2 120 MOBILE SPACE RESEARCH (deep space) (Earth-to-space) 5.388 5.388A	civil civil
2 120-2 160	FIXED MOBILE 5.388A 5.388	2 120-2 160 FIXED MOBILE 5.388A Mobile-satellite (space-to-Earth) 5.388		2 120-2 160 FIXED MOBILE 5.388A 5.388			2 120-2 160 MOBILE Fixed 5.388 5.388A POL. 19	civil civil
2 160-2 170	FIXED MOBILE 5.388A 5.388	2 160-2 170 FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.388 5.389C 5.389D 5.389E 5.390		2 160-2 170 FIXED MOBILE 5.388A 5.388			2 160-2 170 MOBILE Fixed 5.388 5.388A POL. 19	civil civil
2 170-2 200	FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A 5.388 5.389A 5.389F 5.392A						2 170-2 200 FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A 5.351A 5.388 5.389A	government government civil

National Allocation			National Allocation		Application & Comment
Region 1	Region 2	Region 3	National Allocation		Application & Comment
2 200-2 290	SPACE OPERATION (space-to-Earth) (space-to-space) EARTH EXPLORATION-SATELLITE (space-to-Earth) (space-to-space) FIXED MOBILE 5.391 SPACE RESEARCH (space-to-Earth) (space-to-space) 5.392		2 200-2 290 FIXED MOBILE 5.391		civil and government civil and government
2 290-2 300	FIXED MOBILE except aeronautical mobile SPACE RESEARCH (deep space) (space-to-Earth)		2 290-2 300 FIXED MOBILE except aeronautical mobile		civil and government civil and government
2 300-2 450 FIXED MOBILE Amateur Radiolocation	2 300-2 450 FIXED MOBILE RADIOLOCATION Amateur		2 300-2 400 FIXED MOBILE Amateur Radiolocation		civil and government civil and government civil government
5.150 5.282 5.395	5.150 5.282 5.393 5.394 5.396		2 400-2 450 FIXED MOBILE Amateur Amateur satellite Radiolocation 5.150		civil and government civil and government civil civil government
2 450-2 483.5 FIXED MOBILE Radiolocation 7	2 450-2 483.5 FIXED MOBILE RADIOLOCATION		2 450-2 464 FIXED 5.150		civil

Region 1			Region 2		Region 3		National Allocation		Application & Comment
5.150 5.139			5.150 5.394				2 464-2483,5 FIXED MOBILE Radiolocation 5.150		civil and government civil and government civil and government
2 483.5-2 500 FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A Radiolocation	2 483.5-2 500 FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A RADIOLOCATION RADIODETERMINATION- SATELLITE (space-to-Earth) 5.398	2 483.5-2 500 FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A RADIOLOCATION Radiodetermination- Satellite (space-to-Earth) 5.398	2 483.5-2 500 FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A RADIOLOCATION Radiodetermination- Satellite (space-to-Earth) 5.398	5.150 5.402	5.150 5.400 5.402	5.150 5.371 5.397 5.398 5.399 5.400 5.402	2 483.5-2 500 FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) Radiolocation		government government civil government
2 500-2 520 FIXED 5.409 5.410 5.411 MOBILE except aeronautical mobile 5.384A MOBILE-SATELLITE (space-to-Earth) 5.351A 5.403	2 500-2 520 FIXED 5.409 5.411 FIXED-SATELLITE (space-to-Earth) 5.415 MOBILE except aeronautical mobile 5.384A MOBILE-SATELLITE (space-to-Earth) 5.351A 5.403	2 500-2 520 FIXED 5.409 5.411 FIXED-SATELLITE (space-to-Earth) 5.415 MOBILE except aeronautical mobile 5.384A MOBILE-SATELLITE (space-to-Earth) 5.351A 5.403	2 500-2 520 FIXED 5.409 5.411 FIXED-SATELLITE (space-to-Earth) 5.415 MOBILE except aeronautical mobile 5.384A MOBILE-SATELLITE (space-to-Earth) 5.351A 5.403	5.150 5.371 5.398 5.399 5.402 5.402 5.150 5.400 5.402	5.150 5.371 5.398 5.399 5.402 5.351A	2 500-2 520 MOBILE except aeronautical mobile MOBILE-SATELLITE (space-to-Earth) FIXED 5.409 5.410 5.411		civil civil civil	
5.405 5.407 5.412 5.414	5.404 5.407 5.414 5.415A	5.404 5.407 5.414 5.415A	5.404 5.407 5.414 5.415A	5.404 5.407 5.414 5.415A	5.404 5.407 5.414 5.415A	5.384A 5.403 5.413 5.414 POL, 21			

National Allocation				Application & Comment
Region 1	Region 2	Region 3	National Allocation	
<p>2 520-2 655 FIXED 5.409 5.410 5.411 MOBILE except aeronautical mobile 5.384A BROADCASTING- SATELLITE 5.413 5.416</p> <p>5.339 5.403 5.405 5.412 5.418 5.418B 5.418C</p>	<p>2 520-2 655 FIXED 5.409 5.411 FIXED-SATELLITE (space-to-Earth) 5.415 MOBILE except aeronautical mobile 5.384A BROADCASTING- SATELLITE 5.413 5.416</p> <p>5.339 5.403 5.418B 5.418C</p>	<p>2 520-2 535 FIXED 5.409 5.411 FIXED-SATELLITE (space-to-Earth) 5.415 MOBILE except aeronautical mobile 5.384A BROADCASTING- SATELLITE 5.413 5.416</p> <p>5.403 5.415A</p> <p>2 535-2 655 FIXED 5.409 5.411 MOBILE except aeronautical mobile 5.384A BROADCASTING- SATELLITE 5.413 5.416 5.339 5.418 5.418A 5.418B 5.418C</p>	<p>2 520-2 655 MOBILE except aeronautical mobile FIXED 5.416</p> <p>5.339 5.384A 5.403 5.409 5.410 5.411 5.413 POL. 21</p>	<p>civil civil</p>

National Allocation			Application & Comment
Region 1	Region 2	Region 3	National Allocation
<p>2 655-2 670 FIXED 5.409 5.410 5.411 MOBILE except aeronautical mobile 5.384A BROADCASTING-SATELLITE 5.413 5.416 Earth exploration-satellite (passive) Radio astronomy Space research (passive)</p>	<p>2 655-2 670 FIXED 5.409 5.411 FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.415 MOBILE except aeronautical mobile 5.384A BROADCASTING-SATELLITE 5.413 5.416 Earth exploration-satellite (passive) Radio astronomy Space research (passive)</p>	<p>2 655-2 670 FIXED 5.409 5.411 FIXED-SATELLITE (Earth-to-space) 5.415 MOBILE except aeronautical mobile 5.384A BROADCASTING-SATELLITE 5.413 5.416 Earth exploration-satellite (passive) Radio astronomy Space research (passive)</p>	<p>2 655-2 670 MOBILE except aeronautical mobile 5.384A FIXED 5.416 civil civil</p>
<p>5.149 5.412 5.420 2 670-2 690 MOBILE except aeronautical mobile 5.384A MOBILE-SATELLITE (Earth-to-space) 5.351A Earth exploration-satellite (passive) Radio astronomy Space research (passive)</p>	<p>2 670-2 690 FIXED 5.409 5.411 FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.415 MOBILE except aeronautical mobile 5.384A MOBILE-SATELLITE (Earth-to-space) 5.351A Earth exploration-satellite (passive) Radio astronomy Space research (passive)</p>	<p>5.149 5.384A 5.409 5.410 5.411 5.413 POL. 21 2 670-2 690 MOBILE except aeronautical mobile 5.384A MOBILE-SATELLITE 5.419 5.420 FIXED 5.409 5.410 5.411</p>	<p>civil civil civil</p>

Region 1			Region 2		Region 3		National Allocation		Application & Comment		
National Allocation			National Allocation		National Allocation		National Allocation		Application & Comment		
5.149	5.412	5.419	5.420	5.149	5.419	5.420	5.149	5.384A	5.413	POL.21	
2 690-2 700	EARTH EXPLORATION-SATELLITE (passive)		RADIO ASTRONOMY		SPACE RESEARCH (passive)		2 690-2 700	RADIO ASTRONOMY		SPACE RESEARCH (passive)	civil civil
				5.340	5.421	5.422					
2 700-2 900	AERONAUTICAL RADIONAVIGATION		5.337		Radiolocation		2 700-2 900	AERONAUTICAL RADIONAVIGATION		5.337	civil and government civil and government
				5.423	5.424						
2 900-3 100	RADIONAVIGATION		5.426		Radiolocation		2 900-3 100	RADIONAVIGATION		5.426	civil and government civil and government
				5.425	5.427						

Footnotes of frequency allocations in Poland

POL. 15 The fixed service in the frequency range of 1452-1492 MHz may be used exclusively by government users, not later than by the date of the announcement of a tender for the granting of licences for the distribution of radio broadcasting signals in the radio digital system DAB.

- POL.19. In the frequency ranges of 1900-1980 MHz and 2120-2170 MHz, organizational units subordinate to the Minister of Defence may use the frequencies by 31 December 2002. The introduction, for testing purposes, of a mobile service is permitted to be used by civil users (UMTS) within the territory of the Republic of Poland from 1 January 2002 till 31 December 2002, but it needs to be agreed with the Ministry of Defence.
- POL.20 The frequency range of 2010-2015 MHz may be used by 1 January 2006 only for the needs of the mobile service used by civil users (UMTS). By that date the frequency range is used by government services.
- POL.21 The frequency range of 2500-2690 MHz may be used from 1 January 2006 on the basis of first importance exclusively for the needs of the mobile service used by civil users (UMTS)

QUESTIONNAIRE - PART II**General Questions on National Spectrum Management in Poland**

The following general questions on national spectrum management are based in part on the functional requirements of spectrum management described in the handbook on "National Spectrum Management". If you need additional space to answer the questions please continue on a separate sheet of paper.

1. What legal or regulatory texts govern your national spectrum management processes?

Telecommunication Law 2000

Are any actions planned to change these legal texts or regulations? **YES**

2. Have you publicly available regulations and procedures for national spectrum management (e.g. radio services, license requirements etc.)? **YES**
 3. Do you have a national radio frequency spectrum allocation table? **YES**

4. Regulations for the technical characteristics of radiocommunications equipment
 Do you specify that the technical characteristics of radiocommunications equipment must comply with certain requirements (often referred to as "equipment standards"), for example to avoid interference to other services and users? **YES**

- a) Do you develop these technical requirements or equipment standards on a national basis or use those developed by other administrations or international/regional standards organisations: **Other**
 b) Do you have a procedure to ensure that radiocommunications equipment complies with the technical requirements, for example:

Type Approval, Manufacturers Declaration of Compliance or Certificate of Conformity of the Equipment

5. Spectrum re-deployment*
(The term "redeployment" is used here to refer to a process of national scope in which an assessment is conducted 1) to determine if portions of spectrum can be identified that are in limited use; and 2) to determine if such spectrum segments can be reallocated for use in delivering radiocommunication services that have expanding spectrum requirements. Some countries co-operate on a regional basis to identify suitable spectrum segments that may be re-deployed to facilitate the introduction of new applications on a harmonised basis.)*
 a) Has there been any spectrum redeployment* in your country or has a need for spectrum redeployment been identified? **YES**

- b) If so, do you have a method for achieving this redeployment in respective frequency bands and for given radiocommunication services? **YES**
 c) Please define the established method and describe the nature of the consultation, if any, with users regarding the potential costs resulting from the planned redeployment.

6. Spectrum management costs

- a) What is the cost of providing national spectrum management functions in your country (if there is more than one organisation or agency responsible for spectrum management please give the total costs if this information is available)? **23 million (Swiss Francs)**
- b) What is the source of the funding required to accomplish these spectrum management functions?

State budget

7. Management of frequency assignment records.

- a) Does your administration have a system (manual or computerized) to keep and maintain records of national frequency assignments and spectrum use (usually known as a Data Base Management System (DBMS))? **YES**
- b) Is there a single national DBMS or separate DBMS(s) for different users (for example a DBMS for assignments to government users and separate DBMS for assignments to non-government users)? **Separate**

What is the approximate size (at 2002) of your DBMS:

- c) number of frequency assignments **several hundred of thousands**
- d) number of licences **anywhere from ten to twenty of thousands**
- e) Are these frequency assignment records made available to public? **NO**
- f) Is the DBMS computerized? **YES**
- g) What computerized DBMS do you use? **MS Access, Paradox, Informix, dBase**

8. Co-ordination of frequency assignments with other countries:
 - do you co-ordinate assignments to terrestrial stations **YES**
 - do you co-ordinate assignments to space stations **YES**

9. Notification of frequency assignments.

Do you notify to the ITU those frequency assignments that are required to be notified by the Radio Regulations ? **YES**
 If not, please explain why and list any difficulties:

10. Do you have a policy and planning function for national spectrum management (i.e. a national strategy for future use of the spectrum)? **YES**
11. Do you perform technical analyses of frequency assignment requests? **YES**
12. Do you perform radio monitoring of terrestrial radio services? **YES**

Fixed monitoring stations

- a) How many fixed monitoring stations do you have? **18**
- b) Please provide a brief list of the facilities available at your fixed monitoring stations (for example: receivers, spectrum analysers, direction finding equipment):

Monitoring and measurement receivers, spectrum analysers, direction finding equipments, measurement antennas, computers

- c) What is the upper frequency limit of your fixed monitoring stations **3000 MHz**
- d) What is the upper frequency limit of your fixed direction finding stations **1300 MHz**

Mobile monitoring stations

- e) How many mobile monitoring stations do you have? **36**
- f) Please provide a brief list of the facilities available in your mobile monitoring stations (for example: receivers, spectrum analysers, direction finding equipment)

Monitoring and measurement receivers, spectrum analysers, direction finding equipments, measurement antennas, computers

- g) What is the upper frequency limit of your mobile monitoring stations **26000 MHz**
- h) What is the upper frequency limit of your mobile direction finding stations **1300 MHz**

Transportable monitoring stations

- i) How many transportable monitoring stations do you have?
Equipment for transportable monitoring stations is dedicated accordingly to tasks
- j) Please provide a brief list of the facilities available in your transportable monitoring stations (for example: receivers, spectrum analysers, direction finding equipment):

Accordingly to tasks

- k) What is the upper frequency limit of your transportable monitoring stations **26000 MHz**
- l) What is the upper frequency limit of your transportable direction finding stations **-** MHz
- m) Do you perform space monitoring **NO**
- n) Please provide a brief list of the facilities available at your space monitoring stations

- o) What tasks does your space monitoring station perform for GSO satellite monitoring? -
- p) What tasks does your space monitoring station perform for non-GSO satellite monitoring? -
- q) Does your Administration participate in the International Monitoring Programme of ITU? **NO**
- r) Co-operation between Spectrum Management and Monitoring

Please indicate the amount of work (in percentages) performed by the monitoring service for:

- s) Frequency Management Department **15 %**
- t) Enforcement Department **70 %**
- u) License Department **15 %**

- 13. Do you perform Inspections on Radio Stations **YES**
- a) What inspection techniques are used by your administration to determine that users of the spectrum are complying with national or international requirements?

Measurements, control of licenses

- b) What are the administrative procedures that determine your inspection policy (for example the number of inspections, type of notification provided prior to inspection, rules and regulations)?

There are no

- c) What measurement equipment does your administration use to perform technical measurements at an inspection?

Power meters, spectrum analysers

- d) What technical parameters does your administration measure when inspecting a radio system?

Frequency, radiated power, unwanted emissions

- e) What station records does your administration review when inspecting a radio station?

licencies

14. Do you perform technical analyses of radio frequency interference complaints? **YES**

- Do you have an established consultation process, involving Government and non-government organization, for resolving these complaints? **NO**

15. Use of computers for national spectrum management

General

- a) Do you use computers for national spectrum management? **YES**
 b) Type of computers **PCs**
 c) How many workstations: _____ or personal computers (PCs): **approx. 120**
 d) Operating system(s): **Windows**

- e) Does your spectrum management system operate within a Local Area Network (LAN)? **YES**

- f) Do you have access to the internet? **YES**

- g) Does your administration provide a web site on the internet to disseminate spectrum management information? **YES**

If yes, please provide the address (URL) of the web site: **www.urtip.gov.pl**

Windows Basic Spectrum Management System (WinBASMS)

- a) Are you aware that a Windows Basic Spectrum Management System is available from the ITU at no cost? **YES**

- b) Has your administration used WinBASMS? **NO**

- c) Has your administration had problems using WinBASMS? **---**

- d) Please list all problems that were encountered using WinBASMS.

- e) Would you recommend using WinBASMS if the problems identified in (d) have been corrected? **---**

- f) Do you need an enhanced spectrum management system if you answered no in (e)? **---**

Advanced Automated Spectrum Management Systems (AASMS)

- g) Does your administration use an Automated Spectrum Management Systems (AASMS) **NO**

- h) Has your administration had problems using your AASMS **---**

- i) Please list all problems that were encountered using your AASMS
- j) How would you propose to change the AASMS to correct or overcome these problems (please describe)?

16. Organisation of spectrum management

- a) Please describe your country's spectrum management structure and enclose a copy of the organization chart. The following aspects are of particular interest:

The URTiP (Office of Telecommunications and Post Regulation) is responsible for the planning and authorisation of use over the whole of the civil spectrum with the exception of formal assignments analogue broadcast frequencies. It co-operates on a day-to-day basis with staff from the Ministry of Defence regarding military bands but has no detailed plans of usage within these bands.

The URTiP has the status of a statutory body, responsible to the Council of Ministers. The URTiP consists of some 600 staff. Of these 600 staff, some 88 are employed on frequency management at headquarters in Warsaw, with approximately 5 to 8 engineers in each of the 16 branches.

The URTiP has responsibility for the following functions

- Issuing licences and frequency permits covering the provision of telecommunications services and the use of radio equipment
- Management and monitoring of the frequency spectrum including:
 - Public mobile services
 - Private mobile services
 - Aeronautical and marine services
 - Amateur Radio
 - Low power devices
 - Broadcasting services (cooperation with National Broadcasting Council)
 - Public fixed services
 - Private fixed services
 - Public satellite services
 - Private satellite services
- Certification of equipment (e.g. terminal equipment)
- Ensuring compliance with universal service obligations
- Management of emergency and disaster recovery plans
- Approving wholesale and, in conjunction with the Anti-Monopoly Office, retail tariffs for telecommunications
- Resolving disputes (e.g. inter-connection disputes)
- Management and assignment of numbers within the national numbering plan
- Fining operators for non-compliance with the law

- b) Is the spectrum management organisation a separate ministry, department or agency reporting directly to the government or is it part of a larger government department (for

example, a department responsible for all telecommunications)? **Authority reporting directly to the government**

- c) Is the responsibility for spectrum management contained within a single organisation or is it shared between separate organisations (for example, some administrations have separate organisations for regulatory matters and policy matters, other administrations have separate organisations for government users and non-government users)? **Responsibility for spectrum management is shared between separate organisations**
- d) Have there been recent changes in this organisational structure or are changes planned (for example to take account of any changes in your government's policy for telecommunications)? **Yes, there have been changes**
- e) Number of specialist staff in national spectrum management? **130**
- f) Number of support staff in national spectrum management? **70**
- 17. Do you use the ITU-R Handbooks and Reports on:
 - a) National Spectrum Management¹, version 1995 ? **YES**
 - b) Spectrum Monitoring, version 2002? **NO**
 - c) Computer-aided Techniques for Spectrum Management, version 1999? **YES**
 - d) Report SM.2012-1, Economic Aspects of Spectrum Management, version 2000? **NO**

18. Identification of problems experienced in national spectrum management.

Please use the following table to describe problems experienced by your administration in national spectrum management. This information will be used by the ITU, in particular ITU-R Study Group 1, to identify future areas of work, within the normal study programme, so that effort may be focused on the development of recommendations and reports for subjects where assistance is most needed.

¹ The National Spectrum Management Handbook is currently being updated. You are urged to contact Mr Robert Mayher, Chairman ITU-R Study Group 1 and the designated Rapporteur for revision of this Handbook if you have any comments that you wish included in this revision.

Question	Please describe the spectrum management problem associated with the Question and the type of assistance that could be provided by the ITU.
Q1	Equally in the national and international coordination process compatibility analyses performed require the data concerning radio equipment and antennas which are typical for the produced model. Some countries and organizations have elaborated their own data bases containing these data and some has difficulties in building them. In order to harmonize the compatibility assessment it would be a good job to develop a common data base of radio equipment and antennas which would be based on the existing data bases and which would be supplemented and corrected by manufacturers.
Q2	The BR International Frequency Information Circular is used to control the international coordination. It is difficult to use it in the present format (PDF), because data contained there cannot be read. Could the Weekly Circular be available also in another format Excel, Access for example)?
Q3	
Q4	
Q5	
Q6	
Q7	
Q8	
Q9	
Q10	
Q11	
Q12	
Q13	
Q14	
Q15	
Q16	
Q17	