

# 1 TRAINING IN SATELLITE METEOROLOGY (Questionnaire Section 4)

## 1.1 Training in each Region (Question 11)

### 1.1.1 Number of staff trained by institution

WMO Region	RTC	WMO (other than RTC)	University / Industry	Internal	Bilateral Agreement other NMHS	Other
RA I	27	6	14	17	3	5
RA II	20	31	79	767	8	20
RA III	8	18	13	181	15	0
RA IV	1170	120	351	253	3	4
RA V	3	3	10	86	2	5
RA VI	114	6	139	1386	129	257
<b>TOTAL (2010)</b>	<b>1342 (25%)</b>	<b>184 (3%)</b>	<b>606 (11%)</b>	<b>2690 (51%)</b>	<b>160 (3%)</b>	<b>291 (6%)</b>
TOTAL (2008)	161 (5%)	147 (5%)	214 (7%)	2020 (64%)	259 (8%)	359 (11%)
TOTAL (2006)	324 (5%)	145 (2%)	195 (3%)	6103 (86%)	173 (2%)	176 (2%)

Table 12 - Number of staff trained by institution for each Region

### 1.1.2 Number of staff trained by skill

WMO Region	Equipment, operation, maintenance	Software development	Physical basis for remote sensing	Satellite image interpretation	Other
RA I	3	7	10	51	1
RA II	168	161	171	425	0
RA III	17	10	16	452	40
RA IV	22	71	287	789	732
RA V	11	3	23	72	0
RA VI	136	34	357	1503	1
<b>TOTAL (2010)</b>	<b>357 (7%)</b>	<b>286 (5%)</b>	<b>864 (16%)</b>	<b>2992 (57%)</b>	<b>774 (15%)</b>
TOTAL (2008)	443 (14%)	93 (3%)	750 (24%)	1826 (58%)	58 (2%)
TOTAL (2006)	758 (11%)	153 (2%)	1807 (25%)	2962 (42%)	1436 (20%)

Table 13 - Number of staff trained by skill for each Region

## 1.2 Training Methods (Question 11)

Skill	Classroom based presentations	Computer Assisted Learning (CAL)	Distance learning	Other
Equipment operation and maintenance	29	13	4	0
Software development	22	11	3	1
Physical basis of remote sensing	37	20	11	2
Satellite image interpretation	69	39	25	2
Other	5	2	1	0
<b>TOTAL (2010)</b>	<b>162 (55%)</b>	<b>85 (29%)</b>	<b>44 (15%)</b>	<b>5 (2%)</b>
TOTAL (2008)	145 (57%)	63 (25%)	32 (13%)	14 (5%)
TOTAL (2006)	119 (56%)	66 (31%)	17 (8%)	11 (5%)

Table 14 - Training methods employed

### 1.3 Virtual Laboratory Usage Reported from each Region (Questions 12 and 13)

WMO Region	Aware of the VL	Not aware of the VL	Regularly use the VL	Occasionally use the VL	Never use the VL
RA I	8 (9%)	4 (4%)	1 (1%)	2 (2%)	9 (10%)
RA II	13 (14%)	9 (10%)	1 (1%)	8 (9%)	13 (14%)
RA III	5 (5%)	6 (6%)	0 (0%)	5 (5%)	6 (7%)
RA IV	10 (11%)	6 (6%)	2 (2%)	5 (5%)	7 (8%)
RA V	3 (3%)	2 (2%)	0 (0%)	2 (2%)	3 (3%)
RA VI	24 (26%)	3 (3%)	3 (3%)	12 (13%)	12 (13%)
<b>TOTAL (2010)</b>	<b>63 (68%)</b>	<b>30 (32%)</b>	<b>7 (8%)</b>	<b>34 (37%)</b>	<b>50 (55%)</b>
TOTAL (2008)	62 (66%)	32 (34%)	8 (13%)	35 (56%)	19 (31%)
TOTAL (2006)	58 (70%)	25 (30%)	14 (24%)	26 (45%)	18 (31%)

Table 15 - Awareness and usage of the VL for each Region

### 1.4 Limiting Factors in Education and Training in each Region (Question 14)

WMO Region	No significant limiting factors	Insufficient access to opportunities	Technical difficulties	Financial difficulties	Insufficient staff time	Other reasons
RA I	1 (1%)	9 (5%)	7 (4%)	13 (8%)	1 (1%)	0 (0%)
RA II	5 (3%)	7 (4%)	8 (5%)	12 (7%)	9 (5%)	2 (1%)
RA III	2 (1%)	4 (2%)	4 (2%)	8 (5%)	3 (2%)	0 (0%)
RA IV	4 (2%)	4 (2%)	1 (1%)	8 (5%)	5 (3%)	0 (0%)
RA V	3 (2%)	1 (1%)	1 (1%)	1 (1%)	0 (0%)	1 (1%)
RA VI	7 (4%)	4 (2%)	6 (4%)	13 (8%)	12 (7%)	3 (2%)
<b>TOTAL (2010)</b>	<b>22 (13%)</b>	<b>29 (17%)</b>	<b>27 (16%)</b>	<b>55 (33%)</b>	<b>30 (18%)</b>	<b>6 (4%)</b>
TOTAL (2008)	22 (15%)	33 (23%)	20 (14%)	52 (37%)	N/A	15 (11%)
TOTAL (2006)	13 (9%)	33 (23%)	27 (19%)	56 (39%)	N/A	14 (10%)

Table 16 - Limiting factors in education and training for each Region

### 1.5 Changes in Education and Training in each Region (Question 15)

WMO Region	No significant change in staff training	Slight increase in staff training	Significant increase in staff training	Slight decrease in staff training	Significant decrease in staff training
RA I	4 (4%)	4 (4%)	1 (1%)	0 (0%)	1 (1%)
RA II	12 (13%)	8 (9%)	2 (2%)	0 (0%)	0 (0%)
RA III	5 (5%)	5 (5%)	1 (1%)	0 (0%)	0 (0%)
RA IV	6 (6%)	9 (10%)	0 (0%)	0 (0%)	0 (0%)
RA V	3 (3%)	1 (1%)	1 (1%)	0 (0%)	0 (0%)
RA VI	8 (8%)	13 (14%)	4 (4%)	0 (0%)	1 (1%)
<b>TOTAL (2010)</b>	<b>38 (41%)</b>	<b>40 (43%)</b>	<b>13 (14%)</b>	<b>0 (0%)</b>	<b>2 (2%)</b>
TOTAL (2008)	36 (39%)	37 (40%)	15 (16%)	2 (2%)	3 (3%)
TOTAL (2006)	30 (37%)	30 (37%)	15 (19%)	4 (5%)	2 (2%)

Table 17 - Change in level of training over the period of the questionnaire for each Region