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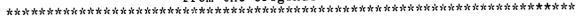
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#### **ABSTRACT**

This paper presents an analysis of the number of university students attending institutions outside of their country of origin, focusing on the changes in such attendance between 1980 and 1990. Five tables present information on: (1) foreign students by region of origin; (2) percentage distribution of foreign students by region of origin; (3) major host countries of foreign students; (4) foreign students in major host countries and percentage distribution by region of origin; and (5) foreign students by major countries of origin. The global number of foreign students rose from 915,859 in 1980 to 1,177,583 in 1990, an increase of 29 percent. Approximately 60 percent of these students were from developing countries. Nearly 90 percent of all foreign students are enrolled in developed countries. In 1980 the largest number of foreign students originated from Europe and the Soviet Union, while in 1990 the majority came from Eastern Asia and Oceania. An appended table provides data on major host countries of foreign students for the years 1980 and 1985 through 1990. (MDM)

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# statistical issues

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Section of Statistics on Education Division of Statistics

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**STE-11** 

# FOREIGN STUDENTS IN HIGHER EDUCATION

COMPARATIVE STATISTICAL DATA FOR 1980 AND 1990 PERMISSION TO REPRODUCE THIS

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 Minor changes have been made to improve reproduction quality **ABSTRACT** 

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."

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The present Statistical Issue presents an analysis of the number of students in the world pursuing their studies at the third level of education (higher education) outside their countries of origin.

The global number of the foreign students rose from 916 thousand in 1980/81 to 1178 thousand in 1990/91, representing an increase of 29 per cent; about 6 out of 10 of these students were from developing countries. The data further show that 90 per cent of all students are enrolled in developed countries and the remaining 10 per cent are in developing countries.

It can also be seen that whereas in 1980 the highest number of foreign students originated from Europe and the former U.S.S.R., in 1990 the majority of them are from Eastern Asia and Oceania.

An early version of this paper was presented at the International Congress on Recognition of Studies and Academic Mobility, held at UNESCO House, Paris, 2-5 November 1992. Since then, limited revisions have been made to the data.

HEB37 935

Prepared by Eliam Nguni, Section of Statistics on Education, Division of Statistics

#### Introduction

International student exchange plays an ever increasing role in higher education. Study opportunities offered to students away from their countries of origin may help especially developing countries with limited resources, to train much-needed high level manpower. On the other hand, developed countries tend to increase their mutual exchange of students; many of these countries have already implemented special student exchange programmes, one example of these being the ERASMUS programme of the European Communities.

UNESCO in keeping with its constitution has constantly regarded as one of its main functions "to maintain, increase and diffuse knowledge" by encouraging "the international exchange of persons active in the fields of education, science and culture". In order to keep track of development in this field, the UNESCO Division of Statistics has been for many years collecting on a regular and annual basis data on foreign students enrolled in higher education institutions. The data refer mainly to foreign students by sex and by country or region of origin.

For the purposes of this document, data on foreign students are presented for a certain number of regions or special groupings of countries within two major categories, i.e. developed and developing countries. Mention should be made of the fact that some countries are included under both "Sub-Saharan Africa" and "Arab States", because they belong to these two groups.

#### Foreign Students in Higher Education

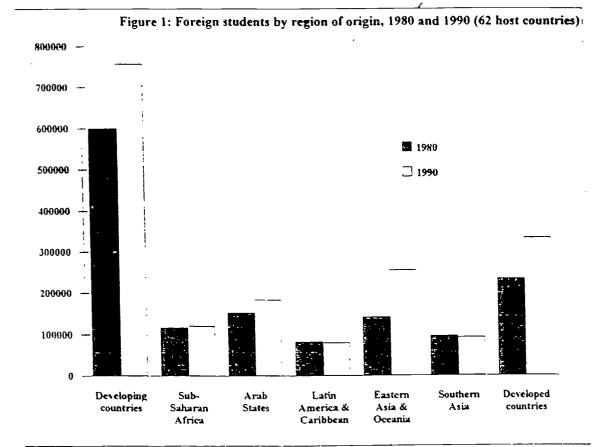
Table 1 shows data on 62 countries for which information on foreign students by country of origin was available for 1980 and 1990. These countries were host to more than 95 per cent of the estimated total foreign students population in 1990.

It can be seen from the table that the number of students pursuing higher education outside their countries of origin increased by 29 per cent from 916 thousand in 1980 to 1178 thousand in 1990. In both periods, these students constituted about 2 per cent of the estimated total enrolment in higher education. The largest number of foreign students came from developing countries (757 thousand in 1990), an increase of 26 per cent over 1980. Although students from developed countries were only 334 thousand in 1990, this was an increase of 42 per cent over 1980. Concerning the individual regions, the greatest increase was in Eastern Asia and Oceania which almost doubled the number of their nationals studying abroad during the periods under study. For Sub-Saharan Africa, Latin America and the Caribbean and Southern Asia, there was little difference during this period (see Figure 1).



Table 1: Forelgn students by region of origin, 1980 and 1990. ( 62 host countries)

						Regions of origin	origin						
Host regions	1	World	Developing	Sub-Saharan	Areb	Lutin America	Eastorn Asia and Oceania	Southern Asia	Developed	Europe and ex- U.S.S.R.	Northern America	Asia and Oceania	Unspecified
World	1980	915859	599805	116713	152424	81681	141812	95964 93052	234589	169541 237748	37575 44328	27473 51960	81465
Developing countries	1990	99837	81403		45272	1920	7465	13398 8703	5961 10647	3537 6921	1584 1622	840 2104	12473 3612
of which Sub: Saharan Africa	1990 1980 1990	1714834 L 5375 4682	4326 4558	128C	787 787	55 53 54	13 59	25 4 3	382 103	366 84	19	8 .	667
Arab States	1980	52158	42761	11.386	37048	10	1471	1536	403	321 225	77 61	2 2	8994 295 <b>4</b>
Letin America	1980	3919 6335	3166	979 975	261	1784	153	25	315 502	190 358	112	13	438
Eastern Asia and	1980	10547	7210	624 1468	205 1887	48 220	2409	3962 1876	2985 4173	1110	1158	717	352
Southern Asia	1980	17179	14999	4257	2756 4668	3 36	3015	5182	500 413	291	157 159	52 42	1680
Developed countries	1980	815793	518195	94565 93439	107152	79761 76460	134347 249401	82566 84349	228606	165982 230827	35991 <b>427</b> 06	26633 49356	6899 <b>2</b> 8289 <b>5</b>
of which Furope and ex- U.S.S.R.	1980	439978 573609	231040 330705	58110	62783 106099	31185	37098 56432	26275 37038	152657 213585	129201	16599 21643	6857 10272	56281 29319
Northern America	1980	357931 442716	271933 290310	35843	259£2 1550F	48.300	87133 150169	55627 45960	73979 106136	36262	18461	19256 38704	12019 46270
A-ia and Oceania	1980 1990	17884 56404	15222	317	3822	925	00867	1351	1970	519	931	520 880	7306
	i												



# Host Regions

The distribution of foreign students by host regions is also presented in Table 1. Developed countries received approximately 91 per cent of the total number of foreign students in 1990, a slight increase over 1980. During this period, the developed countries of Europe and the former U.S.S.R. hosted about 48 per cent of the foreign students; Northern America received about 38 per cent of these students during the same period. As for the developed countries of Asia and Oceania, the number of foreign students in these countries more than tripled from 18 thousand in 1980 to 56 thousand in 1990. As it concerns the developing countries, the Arab States hosted the largest number of foreign students (more than 50 per cent of all foreign students in developing countries during 1980 and 1990).

# Inter-regional Mobility

These data can also be analysed by inter-regional mobility (Table 2). More than 60 per cent of the foreign students in developed countries were from developing countries in both 1980 and 1990. Students from East Asia and Oceania had the largest proportion, i.e. about 17 and 23 per cent in 1980 and 1990 respectively, followed by those from Arab States (12 per cent in 1990). For the remaining developing countries, the percentage distribution were: Sub-Saharan Africa (8.7 per cent), Southern Asia (7.0 per cent) and Latin America and the Caribbean (7.1 per cent).



Table 2: Percentage distribution of foreign students by region of origin, 1980 and 1990. (62 host countries)

						Regions of origin	nigin						
Host regions	ı	World	Developing countries	Sub-Saharan Africa	Arab States	Latin America & Caribbean	Eastorn Asia and Oceania	Southorn Asia	Developed	Europe and ex- U.S.S.R.	Northern America	Asia and Oceania	Unspecified
World	1980	915859	65.5	12.7	16 6 15.6	8.9 6.7	15.5	10.5 7.9	25.6 28.4	18.5	4.1	3.0	8.9
Developing countries	1980	99837	81.5	22.0	45.3	1.9 2.8	7.5	13.4 8.3	6.0	3.5	1.6	0.8	3.4
of which Sub-Saharan Africa	1980	5375	80.5	72.0 86.6	124	0 0	0.2	0 0 0	7.1	6.8	0.3	0.0	12.4
Arah States	1980	52158 53374	82.0 93.9	21 B 22 B	710	00	33 33 8 8	29 25	0.8	0.6	0.1	0.0	17.2 5.5
Latin America	1980	3919 6335	80 B 90 3	237	67 28	45.5	39	06	9.0	4.8	2.9	0 3	11.2 1.8 1.8
Enstern Asia and Cocenta	1980	10547	68.4	5.9 11.3	145	0.5	27.8	37 6 14 4	28.3 32.1	105	9.0		8.0 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2
Southern Asia	1980 1990	17179	67.3 95.0	24 B	16 0 35 6	00	176	302	2.9	1.7	0.9	e e o	æ. <del>-</del> æ. e.
Developed countries	1980 1990	815793 1072729	63.5 62.1	116	13.1	9 B	165	10.1	28.0	20.3	4.0 4.0	3.3	8.5
of which Europe and ex. U.S.S.R.	1980	439978 573609	52.5 57.7	13.3 12.8	143	7.1	88 4 9.88	60	34.7	29.4	9.8 8 8	2 <del>-</del> 8 6	5.1 5.1
Northern America	1980 1990	357931 442716	76 N 65.6	100	113	13.5 10.1	24 3 33 9	155	20.7	10.1	5.2 4.4	5.4 8.7	10.5 10.5
Asia and Oceania	1980 1990	17884 56404	85.1 80.5	17 07	214	\$ 1	56.6	37	11.0	2.9	3.0	2.9	13.0
												C	

<u>~</u>

The number of foreign students in developing countries increased by about 5 percentage points from nearly 100 thousand in 1980 to 105 thousand in 1990. It should be noted, however, that only 10 per cent of these students were from developed countries in 1990 which was in itself a slight increase over 1980.

# Intra-regional Mobility

The movement of students between countries of the same region has an important role especially in developed countries where certain projects have been agreed on the exchange of students between these countries. It can be seen in Table 1 that of the 334 thousand foreign students from developed countries, 323 thousand or 97 per cent went to other developed countries. The majority of these students were from Europe and the former U.S.S.R. who went to other countries within this region; within the European Communities, Greek students who went to study in Italy and the former Federal Republic of Germany as well as the Spanish and Portuguese students who went to France and the former Federal Republic of Germany. In the East bloc countries, most of their students abroad went to the former U.S.S.R.. Northern America received a third of total foreign students from developed countries, the majority of whom came from Europe and the former U.S.S.R.. Students from Northern America tended to go to the United Kingdom, the former Federal Republic of Germany and France. Within the Northern America group, more Canadian students went to the United States.

Table 3: Major host countries of foreign students

Table 3: Major nost countries	(20 countries)			
No	umber of foreig	gn students		Foreign students as
Host Countries	1980	1990	% Change 1990	% of total enrolment,
United States	311882	407529	30.7	2.9
France	110763	136015	22.8	8.0
Germany:				2.2
Former German Dem. Rep.	7106	13343	87.8	3.0
Former Germany, Fed. Rep.	61841	107005	73.0	5.9
United Kingdom	56003	70717	26.3	6.0
Former U.S.S.R.	62942	66806	6.1	1.2
Canada	32303	35187	8.9	2.6
Belgium	12875	33335	158.9	12.3
Australia	8877	28993	226.6	6.0
Japan	6543	23816	264.0	0.9
Switzerland	15515	22621	45.8	16.4
Italy	27784	21416	-22.9	1.5
Austria	12885	18434	43.1	9.0
Syrian Arab Republic	6276	13879	121.1	7.9
Saudi Arabia	14298	12408	-13.2	8.1
India	14710	11759	-20.1	0.2
Spain	10997	11051	0.5	0.9
Holy See	9104	10938	20.1	-
Sweden	10401	10650	2.4	6.1
Egypt	21751	10176	-53.2	1.3 



### Major Host Countries, 1980 and 1990

Table 3 presents data on countries which received more than 10 thousand foreign students in 1990.

During the past decade, five contries: the United States, France, the former Federal Republic of Germany, United Kingdom and the former U.S.S.R. together received about 788 thousand foreign students in 1990, representing 67 per cent of the total foreign students in that year (see Table 1). The rest of the countries shown in Table 3 received between 10 and 35 thousand foreign students during 1990.

Table 3 further shows the percentage change of foreign student intake between 1980 and 1990. These changes can be summarized as follows:

- Australia and Japan received three times more foreign students in their countries.
- These students more than doubled in Belgium and the Syrian Arab Republic.
- In the 5 largest host countries, foreign students increased by between 23 per cent (in France) to 73 per cent (in the former Federal Republic of Germany).
- The most significant decreases during the two periods were in Egypt (53 per cent), Italy (22 per cent), India (20 per cent) and Saudi Arabia (13 per cent).

Data on Table 3 are further analysed in terms of foreign students expressed as a proportion of total enrolment in higher education for the corresponding countries of study, in 1990.

#### This information shows that:

- More than one in ten of the students enrolled in higher education in Belgium and Switzerland was a foreigner. Several other countries also had a significant proportion of foreign students in their institutions of higher learning; these countries included: Austria (9 per cent), France and Saudi Arabia (8 per cent), Syrian Arab Republic (about 8 per cent), Sweden, Australia and the United Kingdom (6 per cent).
- Although the United States received the highest number of foreign students (407529), these students represented only about 3 per cent of total enrolment in this country. Other host countries with a low proportion of foreign students are: the former U.S.S.R. (1.2 per cent), Japan and Spain (0.9 per cent), Italy (1.5 per cent) and India (0.2 per cent).



Table 4: Foreign students in major host countries and percentage distribution by region of origin, 1990

				The state of the s					
	Total	Developed	Developing	of Sub-Saharan	Arab	Latin	East	Southern	Not
major	foreign	countries		-	States	America &	Asia	Asia	Specified
nost Countries	students					Caribbean	& Oceania		
	002 100	0.40	6/9	3.0	5	10.3	33.4	10.7	11.2
U.S.A.	401 223	7.4.0	2 1			7	0 7	ر بر	0.3
France	136 015	24.1	75.6	50.3	4. ئ.	- ·	n (	. i	
Former Germany F.B.	107 005	43.1	53.6	3.2	5.1	3.6	12.3	11.4	J. J.
Loited Kingdom	70 717	41.1	56.9	10.9	6.7	3.2	27.4	5.7	2.1
	66 806		86.6	26.1	23.6	12.3	15.0	11.0	0.0
Former O.S.S.n.	0000	0.00	73.4	11.0	2 6	7.4	39.6	6.8	2.3
Canada	001 66	707	7 6.3	18.7	196	2.9	2.8	<del>-</del> -	3.3
Belgium	33 335	10.1	9 0		60	C.	66.3	2.5	23.9
Australia	28 993	٠ <u>.</u>	0.07	- C	1 0	ט כ זינ	F 98	6	0.1
Japan	23 816	7.6	92.4	<b>3 3</b>	7.0	. j	0.00	. c	
Switzerland	22 621	73.5	18.2	5.0	4.0	4.0	2.9	٦.x	g.5
SWIZELIAND	21.416	615	31.3	0.4	11.3	3,3	0.4	8.8	7.3
Italy	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	6.69	21.0	c.	3.9	1.9	5.2	8.6	2.1
Austria	18 434	2.00	5 6	1 5	5.07	00	7.5	7.4	7.5
Saudi Arabia	12 408	0.5	8. 8.	T 1	2	; '	. ·	. •	, ,
Syrian Arab Rep.	13 879	0.3	0.06	8,6	62.6	0.3	7.0	0 6	· ·
Species	11 759	3.4	94.5	46.6	32.9	03	10.7	20.5	7.7
illula · ·	7 10 7	C 117	7007	0.5	12.0	293	1.3	4.	5.8
Spain	1:00 11	· ·	36.3	· · · ·	1.8	14.5	4.2	5.5	10.7
Holy See	10.938	03.0	0.00	; æ		27	£.	15.1	4.6
Sweden	10 650	04.1	ر د.ان	: •	- :	- 0	i c	5	<b>C</b>
Fovot	10 176	0.3	99.1	50.8	93.9	3 3 3	0.0		0.0

## Foreign Students in Major Host Countries by Region of Origin, 1990

Table 4 presents data on 19 major host countries which received more than 10 thousand foreign students in 1990 distributed in percentage by region of origin.

These data can be analysed as follows:

- In 12 host countries, the majority of the foreign students were from developing countries. More than 90 per cent of these students in Egypt, Syrian Arab Republic, India and Saudi Arabia were from developing countries. In the remaining 8 countries, students from developing countries were between 54 per cent in the former Federal Republic of Germany and 87 per cent in the former U.S.S.R..
- In 5 of the 19 countries, the majority of the students were from developed countries, ranging from 53 per cent in the Holy See to 74 per cent in Switzerland. It should be noted that in Egypt, Saudi Arabia and Syrian Arab Republic students from developed countries were less than one per cent of total foreign students enrolled in these countries.
- In Belgium and Spain, students from developing countries represented the same percentage as students from developed countries (between 45 and 50%).

The distribution by region of origin shows that:

- The largest proportion of foreign students in the former U.S.S.R. and India were from Sub-Saharan Africa. However, in actual numbers, France received the highest number of African students in 1990 (29 thousand) as against 17 thousand for the former U.S.S.R. and India and Egypt each had more than 5000.
- The highest percentage of foreign students in Syrian Arab Republic, Egypt and Saudi Arabia were from the Arab States, but the largest number of Arab students were in: France (59 thousand), United States (21 thousand) and the former U.S.S.R. (16 thousand).
- The largest proportion of foreign students in Spain was from Latin America and the Caribbean. However, in absolute figures the United States hosted 42 thousand of the students from this region as against 3000 in Spain.
- Japan and Australia followed by the United States and Canada enrolled the largest proportion of the students from East Asia and Oceania; in absolute figures, the United States had the highest number of students from this region (136 thousand) in 1990.
- 20 per cent of the foreign students in India, 2000 in absolute figures, came from Southern Asia; the largest number of students from this region, 44 thousand, was enrolled in the United States.

Table 5 presents data on countries (including Palestine), which had each more than 10 thousand of nationals studying abroad in 1990.



Table 5. Foreign students by major countries of origin, 1980 and 1990

(25 countries)

			(25 countries)
Country of	<u>Numbe</u>	r of nationals studying	
origin	1980	1990 	% increase 
China	30127	93347	209.8
Japan	18066	39258	117.3
Morocco	20876	36595	75.3
Germany	22477	34850	55.0
Republic of Korea	9675	32986	240.9
India	15238	32972	116.4
Greece	31509	32184	2.1
Malaysia	35693	31497	-11.8
Iran Islamic Republic	65521	30555	-53.4
Hong Kong	20625	28954	40.4
Italy	13848	25647	85.2
United States	19843	24174	21.8
Turkey	14606	21460	46.9
Jordan	17030	20767	21.9
France	11159	20017	79.4
Algeria	12661	18891	49.2
United Kingdom	15776	17240	9.3
Indonesia	10957	16835	53.6
Lebanon	15117	16531	9.4
Spain	7035	15149	115.3
Syrian Arab Republic	13701	13944	1.8
Sudan	11008	12252	11.3
Tunisia	9817	11297	15.1
Pakistan	5547	10801	94.7
Singapore	5366	10720	99.8
Palestinians	15414	12597	-18.3

This information can be summarised as follows:

The largest increases (more than 200 per cent) between 1980 and 1990 were for the Republic of Korea and China, followed by Japan, India and Spain which had increases of 115 per cent and above. Increases were also important in Singapore, Pakistan and Italy: from 85 to 99.8%.

Students from the Islamic Republic of Iran more than halved from 65521 in 1980 to 30555 in 1990. Pelestinians and Malaysians also declined by respectively 18.3% and 11.8%.

In 1990 and in actual numbers, China has become the leading country of origin. Chinese nationals studying abroac accounted for 8% of total foreign students population in 1990 (see Table 1). The majority of the countries or origin of foreign students are from Asia.

Ten of these countries are also major host countries (see Table 3). In 1990, there were more Japanese students abroad (39258) than foreign students in Japan (23816). Germany, which is the third major host country, is also the fourth major country of origin. As for the largest host country, the United States, its nationals studying abroad represent about 5 per cent of the foreign students population in this country.



# ANNEX TABLE: MAJOR HOST COUNTRIES OF FOREIGN STUDENTS, 1980 TO 1990

•			•		(	15 countries	s)
HOST COUNTRY	1980	1985	1986	1987	1988	1989	1990
Algeria	1810	2479		•••	2648		
Australia	8777	16075	***	•••	18207	25447	28993
Austria	12885	15388	 15740	16174	16580	17306	18434
Belgium	12875	24761	20095	22555	23966	33335	10.0.
Bulgaria	3988	7254	7860	7364	7121	7233	8768
Canada	28443	29496	27210	27119	28622	32144	35187
China	1381	3250	4343	4408	6400	4993	8495
Cuba	2026	3161	4075	4143	4660	4057	5654
Cyprus	331	544	598	759	859	700	, 1184
Former C slovakia	3642	4175	4534	4803	5056	5107	4803
Denmark	3035	3167	3400	4534	6609	6864	
Egypt	21751	12235	11025	10729	11151	10716	
Finland	610	979	1024	1168	1230	1356	1617
France	110763	131979	126762	123978	125574	143640	136015
Former German Dem. Rep.	7106	9231	9613	10351	13343		
Former Germany Fed Rep	61841	79354	81724	85749	91926	97985	107005
Holy See	9104	9775	10440	9882	10567	11000	10938
Hungary	2742	2485	2479	2573	2569	2538	3310
India			11759				
Ireland	2845	2606	2554	2537	2889	3094	3282
Italy	29447	26268	23259	28815	21411	20199	21788
Japan	6543	12442	14960	17641	20373	23816	
Ireland	722	2231			2467	1586	2498
Rep. of Korea	1015	978	900	1327	1598	2057	2237
Kuwait	2892	5985	4983	5152	5253		2592
Morocco	1641	2064		3621			4318
Netherlands	4128	5705	7873	8351	9224	8876	
New Zealand	2464	2618	2959	3014	3678	3595	3229
Norway							6907
Philippines	7901				5306		
Foland	2912	2986	3113	3447	3619	4118	4259
Portugal	1318	2047	3396			3608	3773
Qatar	1099	1320	1309	1540	1452	1417	
Romania	15888	10774		7 <b>0</b> 62	6503		
Saudi Arabia	14298	17607	17971			14012	12408
Senegal	3065	2378			1952	1903	
Spain	10997				13839	11051	
Sweden	, 555.	10401			10650		
Switzerland	14716	17396	13576	13925	14462	20914	22621
Syrian Arab Rep	6267	12909	7886				13879
Tunisia	781	1349	1375	1514	1602	22?0	2434
Turkey	6378	7021	6923	8233	7502	7904	7'66
Former U.S.S.R	337 0	, 52 '				74737	6680
United Kingdom	56003	53694	56726	59220	63223	70717	2300
United States	311882	343780	349610		366354	386745	40752
Yugoslavia(1)	4426	7384	7426		6233	5883	596

Note: (1) All data refer to the Former Socialist Federal Republic Of Yugoslavia



