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2 Is Globalization Reducing Poverty and Inequality?

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Summary. — Over the past 20 years or so India, China, and the rest of East Asia, experienced fast economic growth and falls in the poverty rate, Latin America stagnated, the former Soviet Union, Central and Eastern Europe, and sub-Saharan Africa regressed. But what are the net trends? The neoliberal argument says that world poverty and income inequality fell over the past two decades for the first time in more than a century and a half, thanks to the rising density of economic integration across national borders. The evidence therefore confirms that globalization in the context of the world economic regime in place since the end of Bretton Woods generates more “mutual benefit” than “conflicting interests.” This paper questions the empirical basis of the neoliberal argument.

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Key words — globalization, poverty, inequality, neoliberalism, political economy of statistics, World bank

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‘Over the past 20 years the number of people living on less than \$1 a day has fallen by 200 million, after rising steadily for 200 years’ (James Wolfensohn, president of the World Bank, World Bank, 2002b).

‘The *best evidence available* shows . . . the current wave of globalization, which started around 1980, has actually promoted economic equality and reduced poverty’ (Dollar & Kraay, 2002; emphasis added).

‘Evidence suggests the 1980s and 1990s were decades of declining global inequality and reductions in the proportion of the world’s population in extreme poverty’ (Martin Wolf, *The Financial Times*, 2002).

‘[G]lobalization has dramatically increased inequality between and within nations’ (Jay Mazur, US union leader, 2000).

38

39 1. INTRODUCTION

40 The neoliberal argument says that the dis-
41 tribution of income between all the world’s
42 people has become more equal over the past
43 two decades and the number of people living in
44 extreme poverty has fallen, for the first time in
45 more than a century and a half. It says that
46 these progressive trends are due in large part to
47 the rising density of economic integration
48 between countries, which has made for rising
49 efficiency of resource use worldwide as coun-
50 tries and regions specialize in line with their

comparative advantage. Hence the combina- 51
tion of the “dollar-Wall Street” economic 52
regime¹ in place since the breakdown of the 53
Bretton Woods regime in the early 1970s, and 54
the globalizing direction of change in the world 55
economy since then, serves the great majority 56
of the world’s people well. The core solution for 57
lagging regions, Africa above all, is freer 58
domestic and international trade and more 59
open financial markets, leading to deeper inte- 60
gration into the world economy. 61

Evidence from the current long wave of 62
globalization thus confirms neoliberal eco- 63
nomic theory—more open economies are more 64
prosperous, economies that liberalize more 65
experience a faster rate of progress, and people 66
who resist further economic liberalization must 67
be acting out of vested or “rent-seeking” 68
interests. The world economy is an open system 69
in the sense that country mobility up the 70
income/wealth hierarchy is unconstrained by 71
the structure. The hierarchy is in the process of 72
being flattened, the North–South, core-periph- 73
ery, rich country-poor country divide is being 74
eroded away as globalization proceeds. The 75

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76 same evidence also validates the rationale of the
77 World Trade Organization (WTO), the World
78 Bank, the International Monetary Fund (IMF)
79 and other multilateral economic organizations
80 as agents for creating a global “level playing”
81 field undistorted by state-imposed restrictions
82 on markets. This line of argument is champi-
83 oned by the more powerful of the centers of
84 “thinking for the world” that influence inter-
85 national policy making, including the inter-
86 governmental organizations such as the World
87 Bank, the IMF and the WTO, also the US and
88 UK Treasuries, and opinion-shaping media
89 such as *The Financial Times* and *The Econo-*
90 *mist*.

91 The standard Left assumption, in contrast, is
92 that the rich and powerful countries and classes
93 have little interest in greater equity. Consistent
94 with this view, the “anti-globalization” (more
95 accurately, “anti-neoliberal”) argument asserts
96 that world poverty and inequality have been
97 rising, not falling, due to forces unleashed by
98 the same globalization (for example, union
99 leader Jay Mazur’s quote above).² The line of
100 solution is some degree of tightening of public
101 policy limits on the operation of market forces;
102 though the “anti-neoliberal” camp embraces a
103 much wider range of solutions than the liberal
104 camp.

105 The debate tends to be conducted by each
106 side as if its case was overwhelming, and only
107 an intellectually deficient or dishonest person
108 could see merit in other’s case. For example,
109 Martin Wolf of *The Financial Times* claims that
110 the “anti-globalization” argument is “the big
111 lie.”³ If translated into public policy it would
112 cause more poverty and inequality while pre-
113 tending to do the opposite.

114 This paper questions the empirical basis of
115 the neoliberal argument. In addition, it goes
116 beyond the questions to suggest different con-
117 clusions about levels and trends, stated in terms
118 not of certainties but stronger or weaker
119 probabilities. Finally it explains why we should
120 be concerned about probably-rising world
121 inequality, and how we might think about the
122 neglected subject of the political economy of
123 statistics.

124 2. THE REGIONAL COLLAGE

125 The growth rate of world GDP, measured in
126 US dollars and at current exchange rates, fell
127 sharply from around 5.5% in 1970–80 to 2.3%
128 in 1980–90 to 1.1% in 1990–2000.⁴ This is bad

Table 1. *GNP per capita for region as % of core’s GNP per capita^a*

Region	1960	1980	1999
Sub-Saharan Africa	5	4	2
Latin America	20	18	12
West Asia and North Africa	9	9	7
South Asia	2	1	2
East Asia (w/o China and Japan)	6	8	13
China	1	1	3
South America	5	4	5
North America	124	100	101
Western Europe	111	104	98
Southern Europe	52	60	60
Australia and NZ	95	75	73
Japan	79	134	145
North (= core)	100	100	100

Source: Arrighi, Silver, and Brewer (2003).

^a Based on World Bank data. GNP at current exchange rates.

129 news, environmental considerations aside. But
130 it still grew a little faster than world population
131 over the past two decades; and the (population-
132 weighted) GDP of developing countries as a
133 group grew a little faster than that of the high-
134 income countries. On the other hand, regional
135 variation within the global South is large. Table
136 1 shows the trends of regional per capita GNP
137 to the per capita GNP of the “core” regions
138 (with incomes converted to US\$ at current
139 exchange rates as a measure of *international*
140 purchasing power). During 1960–99 the per
141 capita incomes of sub-Saharan Africa, Latin
142 America, and West Asia and North Africa fell
143 as a fraction of the core’s; South Asia’s
144 remained more or less constant; East Asia’s
145 (minus China) rose sharply; China’s also rose
146 sharply but from a very low base. The most
147 striking feature is not the trends but the size of
148 the gaps, testimony to the failure of “catch-
149 up.” Even success-story East Asia has an
150 average income only about 13% of the core’s.⁵
151 It is a safe bet that most development experts in
152 1960 would have predicted much higher per-
153 centages by 2000.

154 The variation can also be shown in terms of
155 the distribution of world income by regions and
156 income percentiles. Figure 1 shows the regional
157 distribution of people at each income percentile
158 for two years, 1990 and 1999. Here incomes are
159 expressed in “purchasing power parity” dollars
160

IS GLOBALIZATION REDUCING POVERTY AND INEQUALITY?

3

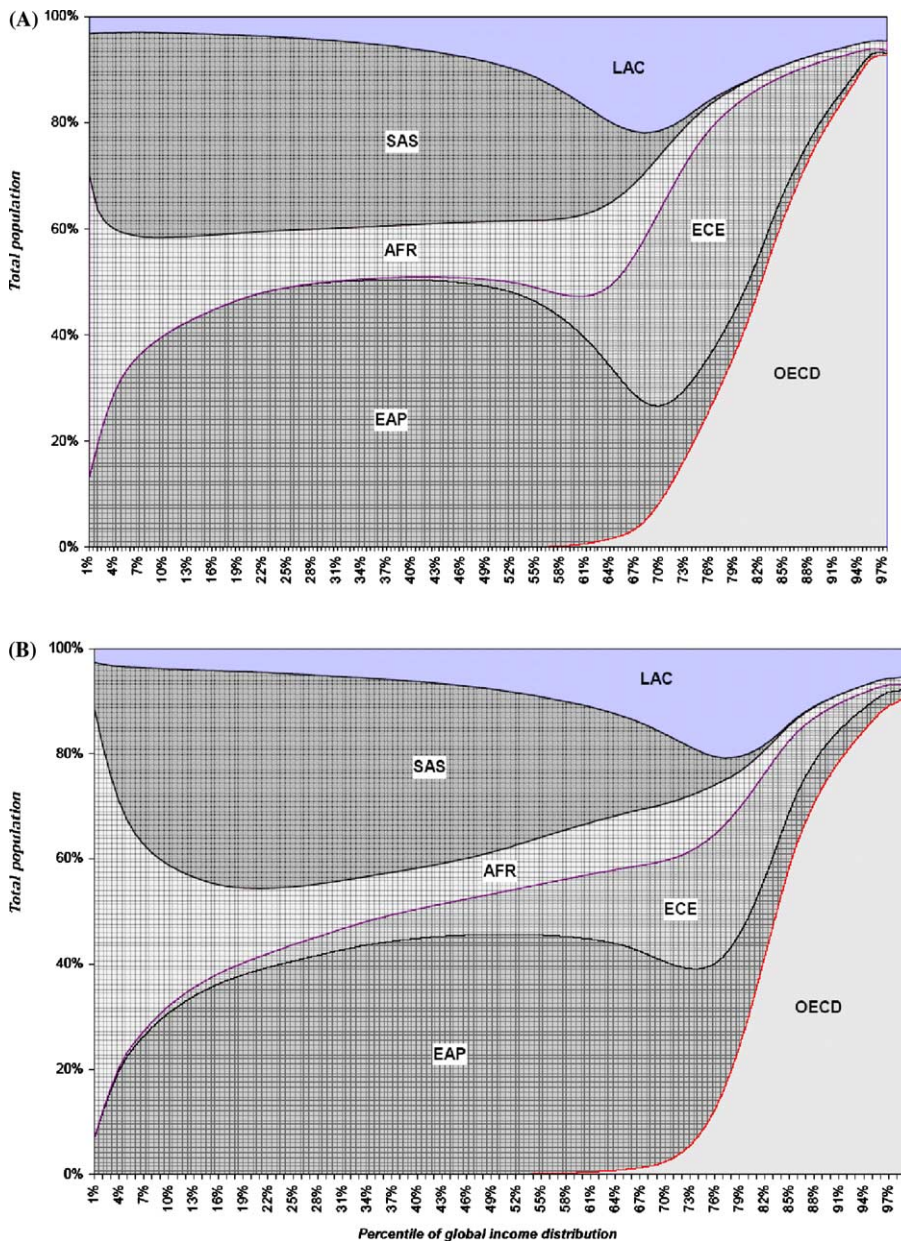


Figure 1. World income distribution, by region, at each percentile of global income distribution: (A) 1990 and (B) 1999 (population at any particular income = 100) (Source: Dikhanov & Ward, 2003).

160 (PPPS),⁶ in order to measure, notionally at
 161 least, *domestic* purchasing power. One sees the
 162 African collapse in the increased share of the
 163 African population in the bottom quintile; also
 164 the falling back of the Eastern and Central
 165 European populations from the second to the

third quintile; and the rising share of the East
 166 Asian population in the second quintile. 167

Figure 2 shows, in the top half, the world's
 168 population plotted against the log of PPP\$
 169 income, taking account of both between-coun-
 170 try and within-country income distribution; 171

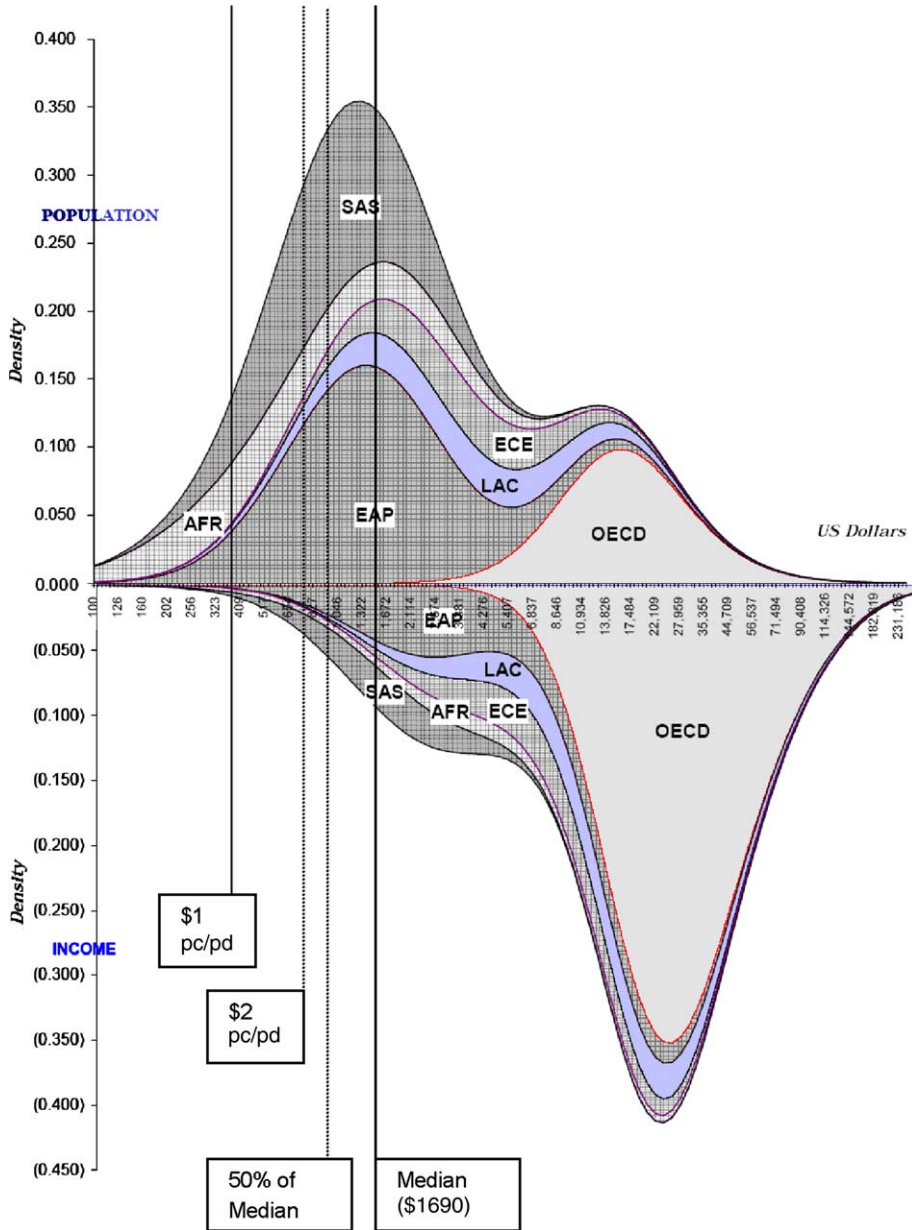


Figure 2. World income distribution, by region: top half, distribution of world population against income; bottom half, distribution of world income against income, 1999 (Source: Dikhanov & Ward, 2003).

172 and the breakdown by region. The bottom half
 173 shows the world's income plotted against
 174 income level, hence the share of income accru-
 175 ing to people at different income levels and in
 176 different regions. Residents of South Asia and
 177 East Asia predominate at income levels below

the median, and residents of the OECD coun- 178
 tries predominate at the top. 179

Finally, Figure 3 shows the movement in the 180
 bimodal shape of the overall PPP\$ income-to- 181
 population distribution during 1970–99. The 182
 1999 distribution has shifted forward compared 183

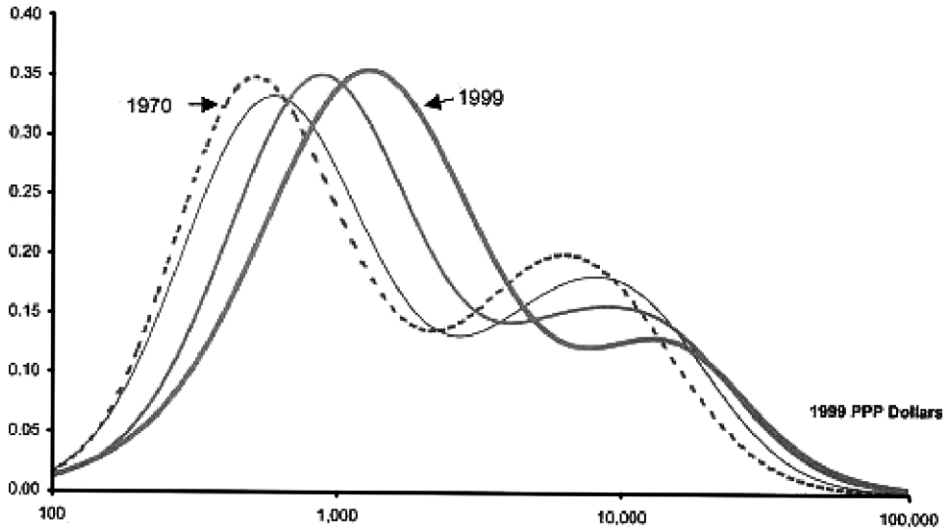


Figure 3. World income distribution, 1970, 1980, 1990, 1999 (Source: Dikhanov & Ward, 2003).

184 to the 1970 one, especially the lower of the two
 185 income humps, reflecting the arrival of large
 186 numbers of South and East Asians into the
 187 middle deciles of the world income distribution.
 188 How does the collage—positive world per
 189 capita growth and wide divergence of economic
 190 performance between developing regions—net
 191 out in terms of global trends in poverty and
 192 inequality?

193 3. POVERTY

194 Figure 2 shows the two standard interna-
 195 tional poverty lines, \$1 per day and \$2 per day;
 196 and also the line corresponding to an income of
 197 50% of the world's median income. Notice that
 198 even the higher \$2 per day absolute poverty line
 199 is below the conventional "minimum" relative
 200 poverty line of half of the median. Notice too
 201 how small a share of world income goes to
 202 those on less than \$1 per day, and how small a
 203 share of the income of the richest earners would
 204 be needed to double the income of the poorest.
 205 Figures 1–3 are based on a data set on
 206 income inequality compiled by the United
 207 Nation's World Institute for Development
 208 Economics Research (WIDER).⁷ But the
 209 standard poverty numbers—the ones normally
 210 used in discussions about the state of the
 211 world—come from the World Bank's data set.
 212 This is the source of the claims that, in the

words of President James Wolfensohn, "Over 213
 the past 20 years the number of people living on 214
 less than \$1 a day has fallen by 200 million, 215
 after rising steadily for 200 years"⁸ and "the 216
 proportion of people worldwide living in 217
 absolute poverty has dropped steadily in recent 218
 decades, from 29% in 1990 to a record low of 219
 23% in 1998."⁹ The opening sentence of the 220
 Bank's *World Development Indicators 2001* 221
 says, "Of the world's 6 billion people 1.2 billion 222
 live on less than \$1 a day," the same number in 223
 1987 and 1998.¹⁰ 224

No ifs or buts. I now show that the Bank's 225
 figures contain a large margin of error, and the 226
 errors *probably* flatter the result in one direc- 227
 tion.¹¹ 228

To get the world extreme poverty headcount 229
 the Bank first defines an international poverty 230
 line for a given base year by using purchasing 231
 power parity conversion factors (PPPs) to 232
 convert the purchasing power of an average of 233
 the official national poverty lines of a set of 234
 low-income countries into the US dollar 235
 amount needed to have the same notional 236
 purchasing power in the United States in the 237
 same year. In its first global poverty estimation 238
 this procedure yielded a conveniently under- 239
 standable US\$1 per day for the base year of 240
 1985.¹² Then the Bank uses PPP conversion 241
 factors to estimate the amount of local cur- 242
 rency, country by country, needed to have the 243
 same purchasing power in the same year as in 244

245 the US base case. This gives an international
 246 extreme poverty line equivalent to US\$1 per
 247 day, expressed in domestic currency. By way of
 248 illustration, Rs. 10 may have the same pur-
 249 chasing power in India in 1985 as US\$1 in the
 250 United States in the same year, in which case
 251 India's international extreme poverty line is Rs.
 252 10 per day. From household surveys the Bank
 253 then estimates the number of people in the
 254 country living on less than this figure. It sums
 255 the country totals to get the world total. It uses
 256 national consumer price indices to keep real
 257 purchasing power constant across time, and
 258 adjusts the international poverty line for each
 259 country upwards with inflation.

(a) *Large margin of error*

261 There are several reasons to expect a large
 262 margin of error, regardless of direction. First,
 263 the poverty headcount is very sensitive to the
 264 precise level of the international poverty lines.
 265 This is because the shape of income distribution
 266 near the poverty line is such that, in most
 267 developing countries, a given percentage
 268 change in the line brings a similar or larger
 269 percentage change in the number of people
 270 below it. Recent research on China suggests
 271 that a 10% increase in the line brings a roughly
 272 20% increase in the poverty headcount.

273 Second, the poverty headcount is very sensi-
 274 tive to the reliability of household surveys of
 275 income and expenditure. The available surveys
 276 are of widely varying quality, and many do not
 277 follow a standard template. Some sources of
 278 error are well known, such as the exclusion of
 279 most of the benefits that people receive from
 280 publicly provided goods and services. Others
 281 are less well known, such as the sensitivity of
 282 the poverty headcount to the survey design.
 283 For example, the length of the recall period
 284 makes a big difference to the rate of reported
 285 expenditure—the shorter the recall period the
 286 higher the expenditure. A recent study in India
 287 suggests that a switch from the standard 30-day
 288 reporting period to a seven-day reporting
 289 period lifts 175 million people from poverty, a
 290 nearly 50% drop. This is using the Indian offi-
 291 cial poverty line. Using the higher \$1/day
 292 international line the would be even greater.¹³
 293 The point here is not that household surveys
 294 are less reliable than other possible sources (for
 295 example, national income accounts); simply
 296 that they do contain large amounts of error.

297 Third, China and India, the two most
 298 important countries for the overall trend, have

PPP-adjusted income figures that contain an
 even bigger component of guess work than for
 most other significant countries. The main
 sources of PPP income figures (the Penn World
 Tables and the International Comparison Pro-
 ject) are based on two large-scale international
 price benchmarking exercises for calculating
 purchasing power parity exchange rates, one in
 1985 in 60 countries, the other in 1993 in 110
 countries. The government of China declined to
 participate in both. The purchasing power
 parity exchange rate for China is based on gu-
 estimates from small, *ad hoc* price surveys in a
 few cities, adjusted by rules of thumb to take
 account of the huge price differences between
 urban and rural areas and between eastern and
 western regions. The government of India
 declined to participate in the 1993 exercise. The
 price comparisons for India are extrapolations
 from 1985 qualified by later *ad hoc* price sur-
 veys. The lack of reliable price comparisons for
 China and India—hence the lack of reliable
 evidence on the purchasing power of incomes
 across their distributions—compromises any
 statement about levels and trends in world
 poverty.¹⁴

Fourth, the often-cited comparison between
 1980 and 1998—1.4 billion in extreme poverty
 in 1980, 1.2 billion in 1998—is not valid. The
 Bank introduced a new methodology in the late
 1990s which makes the figures noncomparable.
 The Bank has recalculated the poverty numbers
 with the new method only back to 1987.¹⁵

The change of method amounts to: (i) a
 change in the way the international poverty line
 was calculated from the official poverty lines of
 a sample of low- and middle-income countries
 (and a change in the sample countries), which
 resulted in, (ii) a change in the international
 poverty line from \$PPP 1 per day to \$PPP 1.08
 per day, and (iii) a change in the procedure for
 aggregating, country by country, the relative
 price changes over 1985–93 for a standard
 bundle of goods and services.

We do not know what the 1980 figure would
 be with the new method. We do know however
 that the new method caused a huge change in
 the poverty count even for the same country in
 the same year using the same survey data.¹⁶
 Table 2 shows the method-induced changes by
 regions for 1993. Angus Deaton, an expert on
 these statistics, comments that “Changes of this
 size risk swamping real changes... it seems
 impossible to make statements about changes
 in world poverty when the ground underneath
 one's feet is changing in this way.”¹⁷

Table 2. 1993 poverty rate, using old and new World Bank methodology^a

	Old poverty rate (%)	New poverty rate (%)
Subsaharan Africa	39.1	49.7
Latin America	23.5	15.3
Middle East/N Africa	4.1	1.9

Source: Deaton (2001).

^a The poverty rate is the proportion of the population living on less than \$1 a day.

(b) *Downward bias*

356 Further sources of error bias the results
357 downward, making the number of people in
358 poverty seem lower than it really is; and the
359 bias probably increases over time, making the
360 trend look rosier than it is. There are at least
361 three reasons.

362 First, the Bank's international poverty line
363 underestimates the income or expenditure
364 needed for an individual (or household) to
365 avoid periods of food-clothing-shelter
366 consumption too low to maintain health and well-
367 being. (Moreover, it avoids altogether the
368 problem that basic needs include unpriced
369 public goods such as clean water and access to
370 basic healthcare.) The Bank's line refers to an
371 "average consumption" bundle, not to a basket
372 of goods and services that makes sense for
373 measuring poverty (though "\$1 per day" does
374 have intuitive appeal to a Western audience
375 being asked to support aid). Suppose it costs
376 Rs. 30 to buy an equivalent bundle of food in
377 India (defined in terms of calories and micro-
378 nutrients) as can be bought in the United States
379 with \$1; and that it costs Rs. 3 to buy an
380 equivalent bundle of services (haircuts, mas-
381 sages) as \$1 in the United States, such services
382 being relatively very cheap in developing
383 countries.¹⁸ Current methods of calculating
384 purchasing power parity, based on an *average*
385 consumption bundle of food, services and other
386 things, may yield a PPP exchange rate of \$PPP
387 1 = Rs. 10, meaning that Rs. 10 in India buys
388 the equivalent average consumption bundle as
389 \$1 in the United States. But this is misleading
390 because the poor person, spending most income
391 on food, can buy with Rs. 10 only one-third of
392 the food purchasable with \$1 in the United
393 States. To take the international poverty line
394 for India as Rs. 10 therefore biases the number
395 of poor downward.

We have no way of knowing what proportion 396
of food-clothing-shelter needs the Bank's 397
international poverty line captures. But we can 398
be fairly sure that if the Bank used a basic needs 399
poverty line rather than its present artificial one 400
the number of absolute poor would rise, 401
because the national poverty lines equivalent to 402
a global basic needs poverty line would prob- 403
ably rise (perhaps by 30–40%).¹⁹ A 30–40% 404
increase in a basic-needs-based international 405
poverty line would increase the world total of 406
people in extreme poverty by at least 30–40%. 407
Indeed a recent study for Latin America shows 408
that national extreme poverty rates, using 409
poverty lines based on calorific and demo- 410
graphic characteristics, may be more than *twice* 411
as high as those based on the World Bank's \$1/ 412
day line. For example, the World Bank esti- 413
mates Brazil's extreme poverty rate (using its 414
international poverty line) at 5%, while the 415
Economic Commission for Latin America, 416
using a calories-and-demography poverty line, 417
estimates the rate at 14%.²⁰ 418

In short, we can be reasonably confident that 419
switching from the Bank's rather arbitrarily 420
derived international extreme poverty line to 421
one reflecting the purchasing power necessary 422
to achieve elementary human capabilities 423
would substantially raise the number of people 424
in extreme poverty. 425

The second reason is that the Bank's new 426
international poverty line of \$1.08/day proba- 427
bly increases the downward bias, leading the 428
Bank to exaggerate the decline in the poverty 429
headcount between the years covered by the old 430
methodology and those covered by the new 431
one. The new international poverty line of 432
\$PPP 1.08 *lowers* the equivalent national pov- 433
erty lines in most countries compared to the 434
earlier \$PPP 1 line. It lowers them in 77% of the 435
94 countries for which data are available, con- 436
taining 82% of their population. It lowers the 437
old international poverty line for China by 438
14%, for India, by 9%, for the whole sample by 439
an average of 13%.²¹ As noted, even a small 440
downward shift in the poverty line removes a 441
large number of people out of poverty. 442

Third, future "updating" of the international 443
poverty line will continue artificially to lower 444
the true numbers, because average consump- 445
tion patterns (on which the international pov- 446
erty line is based) are shifting toward services 447
whose prices relative to food and shelter are 448
lower in poor than in rich countries, giving the 449
false impression that the cost of the basic con- 450

451 sumption goods required by the poor is fall-
452 ing.²²

453 All these problems have to be resolved in one
454 way or another in any estimate of world pov-
455 erty, whoever makes it. But the fact that the
456 World Bank is the near-monopoly provider
457 introduces a further complication. The number
458 of poor people is politically sensitive. The
459 Bank's many critics like to use the poverty
460 numbers as one of many pointers to the con-
461 clusion that it has accomplished "precious
462 little," in the words of US Treasury Secretary
463 O'Neill; which then provides a rationale for
464 tighter US control of the Bank, as in the
465 statement by the head of the US Agency for
466 International Development, "Whether the US
467 way of doing things drives some multilateral
468 institutions, I think it should, because, frankly,
469 a lot of the multilateral institutions don't have
470 a good track record."²³

471 A comparison of two recent Bank publica-
472 tions suggests how the Bank's statements about
473 poverty are affected by its tactics and the
474 ideological predispositions of those in the
475 ideas-controlling positions. *The World Devel-*
476 *opment Report 2000/2001: Attacking Poverty*
477 says that the number of people living on less
478 than \$1 a day increased by 20 million from 1.18
479 billion in 1987 to 1.20 billion in 1998. When it
480 was being written in the late 1990s the key
481 ideas-controlling positions in the Bank were
482 held by Joe Stiglitz and Ravi Kanbur (respec-
483 tively, chief economist and director of the
484 *World Development Report 2000/2001*), not
485 noted champions of neoliberal economics.²⁴
486 At that time the Bank was trying to mobilize
487 support for making the Comprehensive Devel-
488 opment Framework the new template for all its
489 work, for which purpose lack of progress in
490 development helped. Then came the majority
491 report of the Meltzer Commission, for the US
492 Congress, which said the Bank was failing at its
493 central task of poverty reduction and therefore
494 should be sharply cut back—as shown by the
495 fact that the number of people in absolute
496 poverty remained constant at 1.2 billion during
497 1987–98.²⁵ Now the Bank needed to emphasize
498 progress. The next major Bank publication,
499 *Globalization, Growth, and Poverty: Building an*
500 *Inclusive World Economy*, claimed that the
501 number of people living in poverty decreased by
502 200 million in the 18 years over 1980–98.²⁶ By
503 this time Stiglitz and Kanbur were gone and
504 David Dollar, a prominent Bank economist,

was ascendant. He was chief author of *Global-*
*ization, Growth and Poverty.*²⁷ 505
506

(c) *Conclusions about poverty*

We can be fairly sure that the Bank's poverty 508
headcount has a large margin of error in all 509
years, in the sense that it may be significantly 510
different from the headcount that would result 511
from the use of PPP conversion factors based 512
more closely on the real costs of living of the 513
poor (defined in terms of income needed to buy 514
enough calories, micronutrients and other 515
necessities in order not to be poor). By the same 516
token we should question the Bank's confi- 517
dence that the trend is downward. 518

We do not know for sure how the late 1990s 519
revision of the method and the PPP numbers 520
alter the poverty headcount in any one year and 521
the trend. But it is likely that the Bank's num- 522
bers substantially underestimate the true num- 523
bers of the world's population living in extreme 524
poverty, and make the trend look brighter. 525

On the other hand, it is quite plausible that 526
the proportion of the world's population living 527
in extreme poverty has fallen over the past 20 528
years or so. For all the problems with Chinese 529
and Indian income figures we know enough 530
about trends in other variables—including life 531
expectancy, heights, and other nonincome 532
measures—to be confident that their poverty 533
headcounts have indeed dropped dramatically 534
over the past 20 years. If it is the case (as some 535
experts claim) that household surveys are more 536
likely to miss the rich than the poor, their 537
results may *overstate* the proportion of the 538
population in poverty. The magnitude of world 539
population increase over the past 20 years is so 540
large that the Bank's poverty numbers would 541
have to be *huge* underestimates for the world 542
poverty rate not to have fallen. Any more 543
precise statement about the absolute number of 544
the world's people living in extreme poverty 545
and the change over time currently rests on 546
quicksand. 547

4. INEQUALITY

World poverty headcount could move in one 549
direction while the world in equality moved in 550
the other. The neoliberal argument says that 551
they have both dropped.²⁸ But in the past 552
several years world income distribution has 553

554 become a hot topic of debate in international
555 economics and in sociology (much hotter than
556 trends in world poverty). Disagreements about
557 the overall inequality trend should not be sur-
558 prising given the variation in regional economic
559 performance—different ways of measuring
560 emphasize different parts of the collage.

561 The only valid short answer to the question,
562 “What is the trend of world income distribu-
563 tion?” is, “It depends on which combination
564 out of many plausible combinations of mea-
565 sures and countries we choose.”²⁹ Whereas we
566 *could* get better data on the poor to the extent
567 that the poverty headcount would command
568 general agreement, there is no single best mea-
569 sure of world income inequality.

570 The choices include: alternative measures of
571 income (GDP per capita converted to US dol-
572 lars using market exchange rates or GDP per
573 capita adjusted for differences in purchasing
574 power across countries); alternative weightings
575 of countries (each country weighted as one unit
576 or by population); alternative measures of dis-
577 tribution (including the Gini or some other
578 average coefficient, or ratios of the income of
579 the richer deciles of world population to that of
580 poorer deciles, or average income of a set of
581 developing countries to that of a set of devel-
582 oped countries); alternatives sources of data on
583 incomes (national income accounts or house-
584 hold surveys); alternative samples of countries
585 and time periods.

586 We can be reasonably confident of the fol-
587 lowing six propositions.

588 **Proposition 1.** *World income distribution has*
589 *become rapidly more unequal, when incomes are*
590 *measured at market exchange rates and expres-*
591 *sed in US dollars.*

592 No one disputes this. The dispute is about
593 what the figures mean. Most economists say
594 that exchange-rate-based income measures are
595 irrelevant, and hence would dismiss the data in
596 Table 1. GDP incomes should always be
597 adjusted by PPP exchange rates to take account
598 of differences in purchasing power, they say.³⁰
599 This makes a big difference to the size of the
600 gap between rich and poor. As noted, the PPP
601 adjustment is made by computing the relative
602 prices for an average bundle of goods and ser-
603 vices in different countries. The PPP adjustment
604 substantially raises the relative income of poor
605 countries. India’s PPP GDP, for example, is
606 about four times its market exchange rate

GDP. The PPP adjustment thus makes world 607
income distribution look much more equal 608
than the distribution of market-exchange-rate 609
incomes. 610

Market-exchange-rate-based income com- 611
parisons do suffer from all the ways in which 612
official exchange rates do not reflect the “real” 613
economy: from distortions in the official rates, 614
exclusion of goods and services that are not 615
traded, and sudden changes in the official 616
exchange rate driven more by capital than by 617
trade movements. Nevertheless, we should 618
reject the argument that incomes converted via 619
PPP exchange rates should always be used in 620
preference to incomes converted at market 621
exchange rates. 622

The practical reasons concern the weaknesses 623
of the PPP numbers. Plausibly constructed PPP 624
numbers for China differ by a factor of two. 625
Estimates for countries of the former Soviet 626
Union before the 1990s also differ by a wide 627
margin; and India’s differ too. So if incomes 628
converted via market exchange rates do not 629
give an accurate measure of relative purchasing 630
power, neither do the PPP numbers for coun- 631
tries that carry heavy weight in world trends. 632
Confidence in world PPP income distribution 633
should be correspondingly limited. 634

Practical problems aside, PPP-adjustment is 635
in principle preferable when one is interested in 636
domestic purchasing power or, more generally, 637
material well-being. We may however, be 638
interested in income not only as a measure of 639
material well-being. We may *also* be interested 640
in income as a proxy for the purchasing power 641
of residents of different countries over goods 642
and services produced in other countries—for 643
example, the purchasing power of residents of 644
developing countries over advanced country 645
products compared to the purchasing power of 646
residents of advanced countries over develop- 647
ing country products. If we are interested in 648
any of the questions about the economic and 649
geopolitical impact of one country (or region) 650
on the rest of the world—including the cost to 651
developing countries of repaying their debts, 652
importing capital goods, and participating in 653
international organizations—we should use 654
market exchange rates. 655

The reason why many poor small countries 656
are hardly represented in negotiations that 657
concern them directly is that they cannot afford 658
the cost of hotels, offices, and salaries in places 659
like Washington DC and Geneva, which must 660
be paid not in PPP dollars but in hard currency 661
bought with their own currency at market 662

663 exchange rates. In addition, the reason they
664 cannot afford to pay the foreign exchange costs
665 of living up to many of their international
666 commitments—hiring foreign experts to help
667 them exercise control over their banking sectors
668 so that they can implement their part of the
669 anti-money-laundering regime, for example—
670 likewise reflects their low market-exchange-rate
671 incomes. On the other hand, international
672 lenders have not been lining up to accept
673 repayment of developing country debts in PPP
674 dollars, which would reduce their debt repay-
675 ments by 75% or more in many cases.

676 These same “foreign” impacts feed back to
677 domestic state capacity. For example, we
678 should use market exchange rates to pick up
679 the key point that the long-run deterioration in
680 the exchange rates of most developing countries
681 is putting those countries under increasing
682 *internal* stress. When a rising amount of real
683 domestic resources has to go into acquiring a
684 given quantity of imports—say, of capital
685 goods—other domestic uses of those resources
686 are squeezed, including measures to reduce
687 poverty, to finance civil services and schools
688 and the like. This backwash effect is occluded in
689 PPP calculations.

690 Hence we do need to pay attention to what is
691 happening to market-exchange-rate world
692 income distribution. It is widening fast.

693 The next four propositions refer to inequality
694 of PPP-adjusted incomes, as an approximation
695 to domestic purchasing power.

696 **Proposition 2.** *World PPP-income polarization*
697 *has increased, with polarization measured as*
698 *richest to poorest decile.*

699 The broad result is hardly surprising: the top
700 10% is comprised almost entirely of people
701 living in the core countries of North America,
702 western Europe, and Japan, where incomes
703 have grown over the past 20–30 years, while a
704 large chunk of the bottom 10% is comprised of
705 African countries where incomes have stag-
706 nated or fallen. According to one study, the
707 trend of richest to poorest decile goes like this:
708 1970–92, 1980–109, 1990–104, 1999–
709 104.³¹ Another study finds a jump in the ratio
710 of 25% over 1988–93.³² The change is made
711 up of the top decile pulling sharply up from the
712 median and the bottom decile falling away
713 from the median. The polarizing trend would
714 be much sharper with the top 1% rather than
715 the top decile.

Proposition 3. *Between-country world PPP- 716*
income inequality has increased since at least 717
1980, using per capita GDPs, equal country 718
weights (China = Uganda), and a coefficient like 719
the Gini for the whole distribution. 720

Of course, we would not weight countries 721
equally if we were interested simply in relative 722
well-being. But we would weight them 723
equally—treat each country as a unit of 724
observation, analogous to a laboratory test 725
observation—if we were interested in growth 726
theory and the growth impacts of public poli- 727
cies, resource endowments, and the like. We 728
might, for example, arrange (unweighted) 729
countries by the openness of their trade regime 730
and see whether more open countries have 731
better economic performance. 732

The same inequality-widening trend is 733
obtained using a somewhat different measure of 734
inequality—the dispersion of per capita GDPs 735
across the world’s (equally weighted) countries. 736
Dispersion increased over the long period, 737
1950–98, and especially fast over the 1990s. 738
Moreover, the dispersion of per capita GDP 739
growth rates has also risen over time, suggest- 740
ing wider variation in performance among 741
countries at each income level. A study by the 742
Economic Commission for Latin America 743
using these dispersion measures concludes that 744
there is “no doubt as to the existence of a 745
definite trend toward distributive inequality 746
worldwide, both across and within coun- 747
tries.”³³ 748

Proposition 4. *Between-country world PPP- 749*
income inequality has been constant or falling 750
since around 1980, with countries weighted by 751
population. 752

This is the result that the neoliberal argument 753
celebrates. There are just two problems. First, 754
exclude China and even this measure shows a 755
widening since 1980; also exclude India and the 756
widening is pronounced. Therefore, *falling 757*
income inequality is not a general feature of the 758
world economy, even using the most favorable 759
*combination of measures.*³⁴ 760

Second, this measure—the average income of 761
each country weighted by population—is 762
interesting only as an approximation to what 763
we are really interested in, which is income 764
distribution among all the world’s people or 765
households regardless of which country they 766
reside in. We would not be interested in mea- 767

768 suring income inequality within the United
769 States by calculating the average income for
770 each state weighted by population if we had
771 data for all US households.

772 **Proposition 5.** *Several serious studies find that*
773 *world PPP-income inequality has increased over*
774 *a period within the past two to three decades,*
775 *taking account of both between- and within-*
776 *country distributions.*

777 Studies which attempt to measure income
778 distribution among all the world's people show
779 widely varying results, depending on things like
780 the precise measure of inequality, the sample of
781 countries, the time period, and the sources of
782 income data. But several studies, which use a
783 variety of data sources and methods, point to
784 widening inequality.

785 Steve Dowrick and Muhammad Akmal
786 make an approximation to the distribution of
787 income among all the world's people by com-
788 bining (population-weighted) between-country
789 inequality in PPP-adjusted average incomes
790 with within-country inequality. They find that
791 world inequality widened over 1980–93 using
792 *all of four* common measures of inequality over
793 the whole distribution.³⁵

794 Branko Milanovic uses the most compre-
795 hensive set of data drawn only from household
796 income and expenditure surveys (it does not
797 mix data from these surveys with data from
798 national income accounts). He finds a sharp
799 rise in world inequality over as short a time as
800 1988–93, using both the Gini coefficient and
801 ratio (or polarization) measures.³⁶ Some of his
802 findings are shown in Table 3. Preliminary
803 analysis of 1998 data suggests a slight drop in
804 inequality in 1993–98, leaving a large rise over
805 1988–98.

806 We have to be cautious about Milanovic's
807 results partly because household surveys have
808 the kind of weaknesses described above
809 (though these weaknesses do not make them
810 worse than the alternative, national income

accounts, which have their own problems), and 811
partly because even a 10-year interval, let alone 812
a five-year interval, is very short, suggesting 813
that some of the increase may be noise. 814

Yuri Dikhanov and Michael Ward combine 815
micro-level household survey data with 816
national income accounts, using the WIDER 817
data set, a different statistical technique to the 818
earlier authors, and a longer time period, 1970– 819
99. They find that the Gini coefficient increased 820
over this period from 0.668 to 0.683.³⁷ 821

Proposition 6. *Pay inequality within countries* 822
was stable or declining from the early 1960s to 823
1980–1982, then sharply and continuously 824
increased to the present. 1980–82 is a turning 825
point toward greater inequality in manufacturing 826
*pay worldwide.*³⁸ 827

Pay data have the great advantage over 828
income data that pay data are a much less 829
ambiguous variable, have been collected sys- 830
tematically by the United Nations Industrial 831
Development Organization (UNIDO) since the 832
early 1960s, and give many more observation 833
points for each country than any data set on 834
incomes. (The standard data set for world 835
poverty and inequality, the World Bank's 836
Deininger-Squire set, has few observation 837
points for most of Africa, West Asia and Latin 838
America during the 1980s and 1990s, requiring 839
the analyst to guess the intervening years.) The 840
disadvantage of pay data, of course, is that they 841
treat only a small part of the economy of many 842
developing countries, and provide only a proxy 843
for incomes and expenditure. They are of lim- 844
ited use if our interest is only in relative well- 845
being (though of more use if our interest is in 846
the effects of trade, manufacturing innovation, 847
etc.). But not as limited as may seem at first 848
sight, because what is happening to pay rates in 849
formal-sector manufacturing reflects larger 850
trends, including income differences between 851
countries and income differences within coun- 852
tries (since the pay of unskilled, entry-port jobs 853
in manufacturing is closely related to the 854
opportunity cost of time in the "informal" or 855
agricultural sectors).³⁹ 856

Table 3. *World income distribution by households (1988 and 1993)*

	1988	1993	% Change
Gini	0.63	0.67	+6
Richest decile/median	7.28	8.98	+23
Poorest decile/median	0.31	0.28	-10

Source: Milanovic (2002a).

(a) *China and India*

With 38% of the world's population, China 858
and India shape world trends in poverty and 859
inequality. They have grown very fast over the 860
past decade (India) or two (China), if the fig- 861

862 ures are taken at face value. China's average
863 purchasing power parity income rose from 0.3
864 of the world average in 1990 to 0.45 in 1998, or
865 15 percentage points in only eight years.

866 We can be sure that world poverty and
867 inequality are less than they would be had
868 China's and India grown more slowly. About
869 any stronger conclusion we have to be cautious.
870 First, recall that China's and India's purchasing
871 power parity numbers are even more ques-
872 tionable than those for the average developing
873 country, because of their nonparticipation in
874 the international price comparisons on which
875 the PPP calculations rest. Second, China's
876 growth in the 1990s is probably overstated.
877 Many analysts have recently been revising
878 China's growth statistics downward. Whereas
879 government figures show annual real GDP
880 growth of 7–8% in 1998 and 1999 one authority
881 on Chinese statistics estimates that the econ-
882 omy may not have grown at all.⁴⁰

883 Even the Chinese government says that the
884 World Bank has been overstating China's
885 average income, and the Bank has recently
886 revised its numbers down. Table 4 shows the
887 Bank's estimates for China's average GNP in
888 US\$ for 1997–99 and the corresponding growth
889 rates. The level of average (exchange rate-con-
890 verted) income *fell* sharply during 1997–98,
891 while the corresponding growth rate over 1997–
892 98 was +6.4%. The Bank reduced China's per
893 capita income partly because it believed that
894 China's fast growth campaign begun in 1998
895 had unleashed a torrent of statistical falsifica-
896 tion. In addition, the Chinese government arm-
897 twisted the World Bank (especially after the
898 allegedly accidental US bombing of the Chinese
899 embassy in Belgrade in May 1999) to lower
900 average income below the threshold of eligi-
901 bility for concessional IDA lending from the

Bank—not for cheap IDA loans but for the 902
privilege extended to companies of IDA-eligible 903
countries to add a 7.5% uplift on bids for 904
World Bank projects.⁴¹ 905

Over the 1990s China's annual growth rate is 906
more likely to have been around 6–8% than the 907
8–10% of the official statistics. This one change 908
lowers the probability that world interpersonal 909
distribution has become more equal.⁴² 910

We have to be cautious about going from 911
China's fast growth to falls in world income 912
inequality not only because China's growth 913
rates and income level may be overstated but 914
also because the rise in inequality within both 915
China and India partly offsets the reduction in 916
world income inequality that comes from their 917
relatively fast growth of average income— 918
though careful calculations of the relative 919
strength of the two contrary effects have yet to 920
be made.⁴³ China's surging inequality is now 921
greater than before the Communists won the 922
civil war in 1949, and inequality between 923
regions is probably higher than in any other 924
sizable country. The ratio of the average 925
income of the richest to poorest province 926
(Guangdong to Guizhou) rose from around 3.2 927
in 1991 (current yuan) to 4.8 in 1993, and 928
remained at 4.8 in 1998–2001.⁴⁴ The corre- 929
sponding figure for India in the late 1990s was 930
4.2, the United States, 1.9. 931

(b) *The United States and other Anglo political economies*

Canada excepted, all the countries of English 934
settlement, led by the United States, have 935
experienced big increases in income inequality 936
over the past 20–30 years. In the United States, 937
the top 1% of families enjoyed a growth of 938
after-tax income of almost 160% over 1979–97, 939
while families in the middle of the distribution 940
had a 10% increase.⁴⁵ Within the top 1% most 941
of the gains have been concentrated in the top 942
0.1%. This is not a matter of reward to educa- 943
tion. Inequality has expanded hugely among 944
the college-educated. Whatever the causes, the 945
fact is that the United States is now back to the 946
same level of inequality of income as in the 947
decades before 1929, the era of the “robber 948
barons” and the Great Gatsby. Income distri- 949
bution in the United Kingdom grew more 950
unequal more quickly than even in the United 951
States during the 1980s, and is now the most 952
unequal of the big European countries. 953

Table 4. *China's GNPPC and growth rate (1997–99)^a*

	1997	1998	1999
GNPPC/PPP (US\$)	3,070	3,050	3,550
GNPPC (US\$)	860	750	780
Annual growth rate of GNPPC (%)	7.4	6.4	6.1

Source: World Bank, *World Development Indicators* (1999–2001).

^a Note that each volume gives figures for only one year, so that the discrepancy can be seen only by compiling one's own table.

(c) *Country mobility*

955 How much do countries move in the income
 956 hierarchy? One study uses real GNP per capita
 957 data (GNP deflated in local currency to a
 958 common base year, then converted to dollars at
 959 the exchange rate for that base year), and finds
 960 a robustly trimodal distribution of world popu-
 961 lation against the log of GNP per capita
 962 during 1960–99.⁴⁶ The three income zones
 963 might be taken as empirical correlates of the
 964 conceptual zones of core, semi-periphery, and
 965 periphery. For the 100 countries in the sample,
 966 72 remained in the same income zone over the
 967 whole period sampled at five yearly intervals
 968 (e.g., Australia remained in zone 1, Brazil in
 969 zone 2, Bolivia in zone 3). The remaining 28
 970 countries moved at least once from one zone to
 971 another (e.g., Argentina from 1 to 2). No
 972 country moved more than one zone. (South
 973 Korea, Hong Kong and Singapore in 1960 were
 974 already in the middle, not low zone.) There are
 975 about as many cases of upward movement as
 976 downwards. Compared to the rate of potential
 977 mobility (each country moving one zone at
 978 each measurement date) the rate of actual
 979 mobility was 3%.

980 Of the 28 out of 100 countries that moved at
 981 least once between zones, about half had “sta-
 982 ble” moves in the sense that their position in
 983 1990 and 1999 was one zone above or below
 984 their position in 1960 and 1965. Greece moved
 985 stably up from 2 to 1, Argentina moved stably
 986 down from 1 to 2, El Salvador moved stably
 987 down from 2 to 3. As many countries moved
 988 stably up as down.

(d) *The absolute income gap*

990 Our measures of inequality refer to relative
 991 incomes, not absolute incomes. Inequality
 992 between developing countries as a group and
 993 developed countries as a group remains con-
 994 stant if the ratio of developing country income
 995 to developed country income remains at 5%.
 996 But this, of course, implies a big rise in the
 997 absolute size of the gap. The absolute gap
 998 between a country with average income of
 999 \$1,000 growing at 6% and a country with
 1000 average income \$30,000 growing at 1% con-
 1001 tinues to widen until after the 40th year!

1002 China and India are reducing the absolute
 1003 gap with the faltering middle-income states
 1004 such as Mexico, Brazil, Russia and Argentina,
 1005 but not with the countries of North America,
 1006 Western Europe and Japan. Dikhanov and

Ward’s figures show that, overall, the absolute
 gap between the average income of the top
 decile of world population and the bottom
 decile increased from \$PPP 18,690 in 1970 to
 \$PPP 28,902 in 1999.⁴⁷ We can be sure that—a
 seventh proposition—absolute gaps between
 people and countries are widening fast and will
 continue to widen for at least two generations.

(e) *Conclusions about inequality*

The evidence does support the liberal argu-
 ment when inequality is measured with popu-
 lation-weighted countries’ per capita PPP-
 adjusted incomes, plus a measure of average
 inequality, taking China’s income statistics at
 face value. On the other hand, polarization has
 clearly increased. Moreover, several studies
 that measure inequality over the whole distri-
 bution and use either cross-sectional household
 survey data or measures of combined inequality
 between countries and within countries show
 widening inequality since around 1980. The
 conclusion is that world inequality measured in
 plausible ways is probably rising, despite
 China’s and India’s fast growth. The conclu-
 sion is reinforced by evidence of a quite differ-
 ent kind. Dispersion in pay rates within
 manufacturing has become steadily wider since
 the early 1980s, having remained roughly con-
 stant from 1960 to the early 1980s. Meanwhile,
 absolute income gaps are widening fast.

5. GLOBALIZATION

I have raised doubts about the liberal argu-
 ment’s claim that (a) the number of people
 living in extreme poverty worldwide is currently
 about 1.2 billion, (b) it has fallen substantially
 since 1980, by about 200 million, and (c) that
 world income inequality has fallen over the
 same period, having risen for many decades
 before then. Let us consider the other end of
 the argument—that the allegedly positive
 trends in poverty and inequality have been
 driven by rising integration of poorer countries
 into the world economy, as seen in rising trade/
 GDP, foreign direct investment/GDP, and the
 like.

Clearly the proposition is not well supported
 at the world level if we agree that globalization
 has been rising while poverty and income
 inequality have not been falling. Indeed, it is
 striking that the pronounced convergence of
 economic policy toward “openness” world-
 wide

1058 over the past 20 years has gone with divergence
1059 of economic performance. But it might still be
1060 possible to argue that globalization explains
1061 differences between countries: that more open
1062 economies or ones that open faster have a
1063 better record than less open ones or ones that
1064 open more slowly.

1065 This is what World Bank studies claim. The
1066 best known, *Globalization, Growth and Pov-*
1067 *erty*,⁴⁸ distinguishes “newly globalizing”
1068 countries, also called “more globalized” coun-
1069 tries, from “nonglobalizing” countries or “less
1070 globalized” countries. It measures globalizing
1071 by *changes* in the ratio of trade to GDP over
1072 1977–97. Ranking developing countries by the
1073 amount of change, it calls the top third the
1074 more globalized countries, the bottom two-
1075 thirds, the less globalized countries. It finds that
1076 the former have had faster economic growth,
1077 no increase in inequality, and faster reduction
1078 of poverty than the latter. “Thus globalization
1079 clearly can be a force for poverty reduction,” it
1080 concludes.

1081 The conclusion does not follow. First, using
1082 “change in the trade/GDP ratio” as the mea-
1083 sure of globalization skews the results.⁴⁹ The
1084 globalizers then include China and India, as
1085 well as countries such as Nepal, Côte d’Ivoire,
1086 Rwanda, Haiti, and Argentina. It is quite pos-
1087 sible that “more globalized” countries are *less*
1088 open than many “less globalized” countries,
1089 both in terms of trade/GDP and in terms of the
1090 magnitude of tariffs and nontariff barriers. A
1091 country with high trade/GDP and very free
1092 trade policy would still be categorized as “less
1093 globalized” if its *increase* in trade/GDP over
1094 1977–97 put it in the bottom two-thirds of the
1095 sample. Many of the globalizing countries ini-
1096 tially had very *low* trade/GDP in 1977 and still
1097 had relatively low trade/GDP at the *end* of the
1098 period in 1997 (reflecting more than just the

1099 fact that larger economies tend to have lower
1100 ratios of trade/GDP). To call relatively closed
1101 economies “more globalized” or “globalizers”
1102 and to call countries with much higher ratios of
1103 trade/GDP and much freer trade regimes “less
1104 globalized” or even “nonglobalizers” is an
1105 audacious use of language.

1106 Excluding countries with high but not rising
1107 levels of trade to GDP from the category of
1108 more globalized eliminates many poor coun-
1109 tries dependent on a few natural resource
1110 commodity exports, which have had poor eco-
1111 nomic performance. The structure of their
1112 economy and the low skill endowment of the
1113 population make them dependent on trade. If
1114 they were included as globalized their poor
1115 economic performance would question the
1116 proposition that the more globalized countries
1117 do better. On the other hand, including China
1118 and India as globalizers—despite relatively low
1119 trade/GDP and relatively protective trade
1120 regimes—guarantees that the globalizers,
1121 weighted by population, show better perfor-
1122 mance than the nonglobalizers. Table 5 pro-
1123 vides an illustration.

1124 The second problem is that the argument
1125 fudges almost to vanishing point the distinction
1126 between trade quantities and trade policy, and
1127 implies, wrongly, that rising trade quantities—
1128 and the developmental benefits thereof—are
1129 the consequence of trade liberalization.

1130 Third, the argument assumes that fast trade
1131 growth is the major cause of good economic
1132 performance. It does not examine the reverse
1133 causation, from fast economic growth to fast
1134 trade growth. Nor does it consider that other
1135 variables correlated with trade growth may be
1136 important causes of economic performance:
1137 quality of government, for example. One reex-
1138 amination of the Bank’s study finds that the
1139 globalizer countries do indeed have higher

Table 5. *Trade-dependent nonglobalizers and less-trade-dependent globalizers*

	Exports/GDP			GNPRG 1988–99 (%)
	1990	1999	% Change	
Nonglobalizers				
Honduras	36	42	17	-1.2
Kenya	26	25	-0.04	0.5
Globalizers				
India	7	11	57	6.9
B'desh	6	14	133	3.3

Source: World Bank, *World Development Report 2000/01*, Tables 1 and 13.

1140 quality of government indicators than the
1141 nonglobalizer countries, on average.⁵⁰ Finally,
1142 trade does not capture important kinds of
1143 “openness,” including people flows and ideas
1144 flows. Imagine an economy with no foreign
1145 trade but high levels of inward and outward
1146 migration and a well-developed diaspora net-
1147 work. In a real sense this would be an open or
1148 globalized economy, though not classified as
1149 such.

1150 Certainly many countries—including China
1151 and India—have benefited from their more
1152 intensive engagement in international trade and
1153 investment over the past one or two decades.
1154 But this is not to say that their improved per-
1155 formance is largely due to their more intensive
1156 external integration. They began to open their
1157 own markets *after* building up industrial
1158 capacity and fast growth behind high barriers.
1159 ⁵¹ In addition, throughout their period of
1160 so-called openness they have maintained pro-
1161 tection and other market restrictions that
1162 would earn them a bad report card from the
1163 World Bank and IMF were they not growing
1164 fast. China began its fast growth with a high
1165 degree of equality of assets and income,
1166 brought about in distinctly nonglobalized con-
1167 ditions and unlikely to have been achieved in an
1168 open economy and democratic polity.⁵²

1169 Their experience—and that of Japan, South
1170 Korea and Taiwan earlier—shows that coun-
1171 tries do not have to adopt liberal trade policies
1172 in order to reap large benefits from trade.⁵³
1173 They all experienced relatively fast growth
1174 behind protective barriers; a significant part of
1175 their growth came from replacing imports of
1176 consumption goods with domestic production;
1177 and more and more of their rapidly growing
1178 imports consisted of capital goods and inter-
1179 mediate goods. As they became richer they
1180 tended to liberalize their trade—providing the
1181 basis for the misunderstanding that trade liberal-
1182 ization drove their growth. For all the Bank
1183 study’s qualifications (such as “We label the
1184 top third ‘more globalized’ without in any sense
1185 implying that they adopted pro-trade policies.
1186 The rise in trade may have been due to other
1187 policies or even to pure chance”), it concludes
1188 that trade liberalization has been the driving
1189 force of the increase in developing countries’
1190 trade. “The result of this trade liberalization in
1191 the developing world has been a large increase
1192 in both imports and exports,” it says. On this
1193 shaky basis the Bank rests its case that devel-
1194 oping countries must push hard toward near-
1195 free trade as a core ingredient of their devel-

1196 opment strategy, the better to enhance competi-
1197 tion in efficient, rent-free markets. Even when
1198 the Bank or other development agencies articu-
1199 late the softer principle—trade liberalization is
1200 the necessary direction of change but countries
1201 may do it at different speeds—all the attention
1202 remains focused on the liberalization part, none
1203 on how to make protective regimes more
1204 effective.

1205 In short, the Bank’s argument about the
1206 benign effects of globalization on growth,
1207 poverty and income distribution does not sur-
1208 vive scrutiny at either end. And a recent cross-
1209 country study of the relationship between
1210 openness and income distribution strikes
1211 another blow. It finds that among the subset of
1212 countries with low and middle levels of average
1213 income (below \$5,000 per capita in PPP terms,
1214 that of Chile and the Czech Republic), higher
1215 levels of trade openness are associated with
1216 *more* inequality, while among higher-income
1217 countries more openness goes with less
1218 inequality.⁵⁴

6. CONCLUSION

1220 It is plausible, and important, that the pro-
1221 portion of the world’s population living in
1222 extreme poverty has probably fallen over the
1223 past two decades or so, having been rising for
1224 decades before then. Beyond this we cannot be
1225 confident, because the World Bank’s poverty
1226 numbers are subject to a large margin of error,
1227 are probably biased downward, and probably
1228 make the trend look rosier than it really is. On
1229 income distribution, several studies suggest that
1230 world income inequality has been rising during
1231 the past two to three decades, and a study of
1232 manufacturing pay dispersions buttresses the
1233 same conclusion from another angle. The trend
1234 is sharpest when incomes are measured at
1235 market-exchange-rate incomes. This is less rel-
1236 evant to relative well-being than PPP-adjusted
1237 incomes, in principle; but it is highly relevant to
1238 state capacity, interstate power, and the
1239 dynamics of capitalism. One combination of
1240 inequality measures does yield the conclusion
1241 that income inequality has been falling—PPP-
1242 income per capita weighted by population,
1243 measured by an averaging coefficient such as
1244 the Gini. But take out China and even this
1245 measure shows widening inequality. Falling
1246 inequality is thus not a *generalized* feature of
1247 the world economy even by the most favorable
1248 measure. Finally, whatever we conclude about

1249 income inequality, absolute income gaps are
1250 widening and will continue to do so for
1251 decades.

1252 If the number of people in extreme poverty is
1253 not falling and if global inequality is widening,
1254 we cannot conclude that globalization in the
1255 context of the dollar-Wall Street regime is
1256 moving the world in the right direction, with
1257 Africa's poverty as a special case in need of
1258 international attention. The balance of proba-
1259 bility is that—like global warming—the world
1260 is moving in the wrong direction.

1261 The failure of the predicted effects aside, the
1262 studies that claim globalization as the driver are
1263 weakened by (a) the use of *changes* in the trade/
1264 GDP ratio or FDI/GDP ratio as the index of
1265 globalization or openness, irrespective of level
1266 (though using the level on its own is also
1267 problematic, the level of trade/GDP being
1268 determined mainly by country size); (b) the
1269 assumption that trade liberalization drives
1270 increases in trade/GDP; and (c) the assumption
1271 that increases in trade/GDP drive improved
1272 economic performance. The problems come
1273 together in the case of China and India, whose
1274 treatment dominates the overall results. They
1275 are classed as “globalizers,” their relatively
1276 good economic performance is attributed
1277 mainly to their “openness,” and the deviation
1278 between their economic policies—substantial
1279 trade protection and capital controls, for
1280 example—and the core economic policy pack-
1281 age of the World Bank and the other multilat-
1282 eral economic organizations is glossed.

1283 At the least, analysts have to separate out the
1284 effect of country size on trade/GDP levels from
1285 other factors determining trade/GDP, including
1286 trade policies, because the single best predictor
1287 of trade/GDP is country size (population and
1288 area). They must make a clear distinction
1289 between statements about (i) levels of trade, (ii)
1290 changes in levels, (iii) restrictiveness or open-
1291 ness of trade policy, (iv) changes in restrictive-
1292 ness of policy, and (v) the content of trade—
1293 whether a narrow range of commodity exports
1294 in return for a broad range of consumption
1295 imports, or a diverse range of exports (some of
1296 them replaced imports) in return for a diverse
1297 range of imports (some of them producer goods
1298 to assist further import replacement).

(a) *Should we worry about rising inequality?*

1300 The neoliberal argument says that inequality
1301 provides incentives for effort and risk-taking,
1302 and thereby raises efficiency. As Margaret

1303 Thatcher put it, “It is our job to glory in
1304 inequality and see that talents and abilities are
1305 given vent and expression for the benefit of us
1306 all.”⁵⁵ We should worry about rising inequal-
1307 ity only if it somehow makes the poor worse off
1308 than otherwise.

1309 The counterargument is that this productive
1310 incentive effect applies only at moderate, 1310
1311 Scandinavian, levels of inequality. At higher
1312 levels, such as in the United States over the past
1313 20 years, it is likely to be swamped by social
1314 costs. Aside from the moral case against it,
1315 inequality above a moderate level creates a kind
1316 of society that even crusty conservatives hate to
1317 live in, unsafe and unpleasant.

1318 Higher income inequality within countries
1319 goes with: (i) higher poverty (using World Bank
1320 data and the number of people below the
1321 Bank's international poverty line);⁵⁶ (ii) slower
1322 economic growth, especially in large countries
1323 such as China, because it constrains the growth
1324 of mass demand; (iii) higher unemployment;
1325 and (iv) higher crime.⁵⁷ The link to higher
1326 crime comes through the inability of unskilled
1327 men in high inequality societies to play tradi-
1328 tional male economic and social roles, includ-
1329 ing a plausible contribution to family income.
1330 But higher crime and violence is only the tip of
1331 a distribution of social relationships skewed
1332 toward the aggressive end of the spectrum, with
1333 low average levels of trust and social capital. In
1334 short, inequality at the national level should
1335 certainly be a target of public policy, even if just
1336 for the sake of the prosperous.

1337 The liberal argument is even less concerned
1338 about widening inequality between countries
1339 than it is about inequality within countries,
1340 because we cannot do much to lessen interna-
1341 tional inequality directly. But on the face of it,
1342 the more globalized the world becomes, the
1343 more that the reasons why we should be con-
1344 cerned about within-country inequalities also
1345 apply between countries. If globalization within
1346 the current framework actually increases
1347 inequality within and between countries, as
1348 some evidence suggests, increases in world
1349 inequality above moderate levels may cut world
1350 aggregate demand and thereby world economic
1351 growth, making a vicious circle of rising world
1352 inequality and slower world growth.

1353 Rising inequality between countries impacts
1354 directly the national political economy in the
1355 poorer states, as rich people who earlier com-
1356 pared themselves to others in their neighbor-
1357 hood now compare themselves to others in the
1358 United States or Western Europe, and feel

1359 deprived and perhaps angry. Inequality above
 1360 moderate levels may, for example, predispose
 1361 the elites to become more corrupt as they
 1362 compare themselves to elites in rich countries.
 1363 They may squeeze their own populations in
 1364 order to sustain a comparable living standard,
 1365 enfeebling whatever norms of citizenship have
 1366 emerged and preventing the transition from an
 1367 “oligarchic” elite, concerned to maximize
 1368 redistribution upward and contain protests by
 1369 repression, to an “establishment” elite, con-
 1370 cerned to protect its position by being seen to
 1371 operate fairly. Likewise, rapidly widening
 1372 between-country inequality in current exchange
 1373 rate terms feeds back into stress in public ser-
 1374 vices, as the increasing foreign exchange cost of
 1375 imports, debt repayment and the like has to be
 1376 offset by cuts in budgets for health, education,
 1377 and industrial policy.

1378 Migration is a function of inequality, since
 1379 the fastest way for a poor person to get richer is
 1380 to move from a poor country to a rich country.
 1381 Widening inequality may raise the incentive on
 1382 the educated people of poor countries to
 1383 migrate to the rich countries, and raise the
 1384 incentive of unskilled people to seek illegal
 1385 entry. Yet migration/refugees/asylum is the
 1386 single most emotional, most atavistic issue in
 1387 Western politics. Polls show that more than
 1388 two-thirds of respondents agree that there
 1389 should be fewer “foreigners” living in their
 1390 countries.⁵⁸

1391 Rising inequality may generate conflict
 1392 between states, and—because the *market-*
 1393 *exchange-rate* income gap is so big—make it
 1394 cheap for rich states to intervene to support one
 1395 side or the other in civil strife. Rising inequality
 1396 in market-exchange-rate terms—helped by a
 1397 high US dollar, a low (long-run) oil price, and
 1398 the WTO agreements on intellectual property
 1399 rights, investment, and trade in services—
 1400 allows the United States to finance the military
 1401 sinews of its postimperial empire more
 1402 cheaply.⁵⁹

1403 The effects of inequality within and between
 1404 countries depend on prevailing norms. Where
 1405 power hierarchy and income inequality are
 1406 thought to be the natural condition of man the
 1407 negative effects can be expected to be lighter
 1408 than where prevailing norms affirm equality.
 1409 Norms of equality and democracy are being
 1410 energetically internationalized by the Atlantic
 1411 states, at the same time as the lived experience
 1412 in much of the rest of the world is from another
 1413 planet.

1414 In the end, the interests of the rich and
 1415 powerful should, objectively, line up in favor of
 1416 greater equity in the world at large, because
 1417 some of the effects of widening inequality may
 1418 contaminate their lives and those of their chil-
 1419 dren. This fits the neoliberal argument. But the
 1420 route to greater equity goes not only through
 1421 the dismantling of market rules rigged in favor
 1422 of the rich—also consistent with the neoliberal
 1423 argument—but through more political (non-
 1424 market) influence on resource allocation in
 1425 order to counter the tendency of free markets
 1426 to concentrate incomes and power. This
 1427 requires international public policy well beyond
 1428 the boundaries of neoliberalism.

1429 The need for deliberate international redis-
 1430 tribution is underlined by the evidence that
 1431 world poverty may be higher in absolute
 1432 numbers than is generally thought, and quite
 1433 possibly rising rather than falling; and that
 1434 world income inequality is probably rising too.
 1435 This evidence suggests that the income and
 1436 prosperity gap between a small proportion of
 1437 the world’s population living mainly in the
 1438 North and a large proportion living entirely in
 1439 the South is a structural divide, not just a
 1440 matter of a lag in the South’s catch-up. Sus-
 1441 tained preferences for the South may be nec-
 1442 essary if the world is to move to a single-
 1443 humped and more narrowly dispersed distri-
 1444 bution over the next century.

(b) *The political economy of statistics*

1445 Concerns about global warming gave rise to
 1446 a coordinated worldwide project to get better
 1447 climatological data; the same is needed to get
 1448 better data on poverty and inequality. The
 1449 World Bank is one of the key actors. It has
 1450 moved from major to minor source of foreign
 1451 finance for most developing countries outside
 1452 of Africa. But it remains an important global
 1453 organization because it wields a dispropor-
 1454 tionate influence in setting the development
 1455 agenda, in offering an imprimatur of “sound
 1456 finance” that crowds in other resources, and in
 1457 providing finance at times when other finance is
 1458 not available. Its statistics and development
 1459 research are crucial to its legitimacy.⁶⁰ Other
 1460 regional development banks and aid agencies
 1461 have largely given up on statistics and research,
 1462 ceding the ground to the World Bank. Alter-
 1463 native views come only from a few “urban
 1464 guerrillas” in pockets of academia and the UN
 1465 system.⁶¹ Keynes’ dictum on practical men and
 1466 long-dead economists suggests that such intel-
 1467

1468 lectual monopolization can have a hugely neg- 1514
1469 ative impact. 1515

1470 Think of two models of a statistical organi- 1516
1471 zation that is part of a larger organization 1517
1472 working on politically sensitive themes. The 1518
1473 “exogenous” model says that the statistics are 1519
1474 produced by professionals exercising their best 1520
1475 judgment in the face of difficulties that have no 1521
1476 optimal solutions, who are managerially insu- 1522
1477 lated from the overall tactical goals of the 1523
1478 organization. The “endogenous” model says 1524
1479 that the statistics are produced by staff who act 1525
1480 as agents of the senior managers (the princi- 1526
1481 pals), the senior managers expect them to help 1527
1482 advance the tactical goals of the organization 1528
1483 just like other staff, and the statistics staff 1529
1484 therefore have to massage the data beyond the 1530
1485 limits of professional integrity, or quit. 1531

1486 Certainly the simple endogenous model does 1532
1487 not fit the Bank; but nor does the other. The 1533
1488 Bank is committed to an Official View of how 1534
1489 countries should seek poverty reduction, rooted 1535
1490 in the neoliberal agenda of trade opening, 1536
1491 financial opening, privatization, deregulation, 1537
1492 with some good governance, civil society and 1538
1493 environmental protection thrown in; it is 1539
1494 exposed to arm-twisting by the G7 member 1540
1495 states and international nongovernmental 1541
1496 organizations (NGOs); it must secure their 1542
1497 support and defend itself against criticism.⁶² It 1543
1498 seeks to advance its broad market opening 1544
1499 agenda not through coercion but mainly by 1545
1500 establishing a sense that the agenda is right and 1546
1501 fitting. Without this it would lose the support 1547
1502 of the G7 states, Wall Street, and fractions of 1548
1503 developing country elites. The units of the Bank 1549
1504 that produce the statistics are partly insulated 1550
1505 from the resulting pressures, especially by their 1551
1506 membership in “epistemic communities” of 1552
1507 professionals inside and outside the Bank; but 1553
1508 not wholly insulated. To say otherwise is to 1554
1509 deny that the Bank is subject to the Chinese 1555
1510 proverb, “Officials make the figures, and the 1556
1511 figures make the officials;” or to Goodhart’s 1557
1512 law, which states that an indicator’s measure-
1513 ment will be distorted if it is used as a target.

(Charles Goodhart was thinking of monetary 1514
policy, but the point also applies to variables 1515
used to make overall evaluations of the per- 1516
formance of multilateral economic organiza- 1517
tions.) To say otherwise is equally to deny that 1518
the Bank is affected by the same pressures as 1519
the Fund, about which a former Fund official 1520
said, “The managing director makes the big 1521
decisions, and the staff then puts together the 1522
numbers to justify them.”⁶³ But little is known 1523
about the balance between autonomy and 1524
compliance in the two organizations, or the 1525
latitude of their statisticians to adjust the 1526
country numbers provided by colleagues else- 1527
where in the organization which they believe to 1528
be fiddled (as in the China case, above).⁶⁴ 1529

Some of the Bank’s statistics are also pro- 1530
vided by independent sources, which provide a 1531
check. Others, including the poverty numbers, 1532
are produced only by the Bank, and these are 1533
more subject to Goodhart’s law. The Bank 1534
should appoint an independent auditor to ver- 1535
ify its main development statistics or cede the 1536
work to an independent agency, perhaps under 1537
UN auspices (but if done by, say, UNCTAD, 1538
the opposite bias might be introduced). And it 1539
would help if the Bank’s figures on poverty and 1540
inequality made clearer than they do the pos- 1541
sible biases and the likely margins of error. 1542

All this, of course, only takes us to the 1543
starting point of an enquiry into the causes of 1544
the probable poverty and inequality trends,⁶⁵ 1545
their likely consequences, and public policy 1546
responses; but at least we are now ready to ask 1547
the right questions. Above all, we have to go 1548
back to a distinction that has all but dropped 1549
out of development studies, between increasing 1550
returns and decreasing returns or, more gener- 1551
ally, between positive and negative feedback 1552
mechanisms. The central question is why, at the 1553
level of the whole, the increasing returns of the 1554
Matthew effect—“To him who hath shall be 1555
given”—continues to dominate decreasing 1556
returns in the third wave of globalization. 1557

NOTES

1560 1. Gowan (1999).

1561 2. Mazur (2000).

1562 3. Wolf (2000).

4. International Monetary Fund (2003). The trend is, 1563
however, highly sensitive to the dollar’s strong depreci- 1564
ation in the 1970s and appreciation in the 1990s. When 1565
this is allowed for, the world growth rate may be closer 1566
to trendless. 1567

- 1568 5. In more concrete terms the number of hours of work
1569 it took for an entry-level adult male employee of
1570 McDonalds to earn the equivalent of one BigMac
1571 around 2000 ranged from: Holland/Australia/NZ/UK/
1572 US, 0.26–0.53 h; Hong Kong, 0.68 h; Malaysia/South
1573 Korea, 1.43–1.46 h; Philippines/Thailand, 2.32–2.2.66 h;
1574 China, 3.96 h; India, 8 h.
- 1575 6. Purchasing power parity is a method of adjusting
1576 relative incomes in different countries to take account of
1577 the fact that market exchange rates do not accurately
1578 reflect purchasing power—as in the common observa-
1579 tion that poor Americans feel rich in India and rich
1580 Indians feel poor in the United States.
- 1581 7. The WIDER data set marries consumption from
1582 household surveys with consumption from national
1583 income accounts, and makes an allowance for (nonpub-
1584 lic sector) nonpriced goods and services.
- 1585 8. World Bank (2002a) and World Bank (2002b, p. 30).
- 1586 9. Wolfensohn (2001).
- 1587 10. World Bank (2001b, p. 3). The \$1 a day is
1588 measured in purchasing power parity. See also World
1589 Bank (2002c).
- 1590 11. I am indebted to Sanjay Reddy for discussions
1591 about the Bank's poverty numbers (Reddy & Pogge,
1592 2003a). See also Ravallion (2003), and Reddy and Pogge
1593 (2003b). In this paper I do not consider the additional
1594 problems that arise when estimating the impact of
1595 economic growth on poverty. See Deaton (2003).
- 1596 12. The Bank also calculates a poverty headcount with
1597 \$2/day, which suffers from the same limitations as the \$1/
1598 day line.
- 1599 13. Reported in Deaton (2001).
- 1600 14. See Reddy and Pogge (2003a).
- 1601 15. Also "[Since 1980] the most rapid growth has
1602 occurred in poor locations. Consequently the number of
1603 poor has declined by 200 million since 1980" (Dollar &
1604 Kraay, 2002, p. 125).
- 1605 16. The new results were published in World Devel-
1606 opment Report 2000/2001 (World Bank, 2001a).
- 1607 17. Deaton (2001, p. 128).
18. I take this example from Pogge and Reddy (2003). 1608
19. The 25–40% figure is Reddy and Pogge's estimate, 1609
the range reflecting calculations based on PPP conver- 1610
sion factors for 1985 and 1993, and for "all-food" and 1611
"bread-and-cereals" indices. 1612
20. Also, Bolivia's extreme poverty rate according to 1613
the World Bank line was 11%, according to the ECLA 1614
line, 23%; Chile, 4%, 8%; Colombia, 11%, 24%; Mexico, 1615
18%, 21% (ECLA, 2001, p. 51). 1616
21. Reddy and Pogge (2003a). 1617
22. This effect is amplified by the widespread removal 1618
of price controls on "necessities" and the lowering of 1619
tariffs on luxuries. 1620
23. Gopinath (2002). 1621
24. See Wade (2002a). It uses Stiglitz's firing and 1622
Kanbur's resignation to illuminate the US role in the 1623
Bank's generation of knowledge. 1624
25. Meltzer Commission (2000). Meltzer later 1625
described the drop in the proportion of the world's 1626
population in poverty from 28% in 1987 to 24% in 1998 1627
as a "modest" decline, the better to hammer the Bank 1628
(Meltzer, 2001). 1629
26. World Bank (2002c). See Deaton (2002). 1630
27. Dollar was ascendant not in terms of bureaucratic 1631
position but in terms of epistemic influence, as seen in 1632
the Human Resource department's use of him as a 1633
"metric" for judging the stature of other economists. 1634
When reporters started contacting the Bank to ask why 1635
it was saying different things about the poverty num- 1636
bers—specifically why two papers on the Development 1637
Research Complex's web site gave different pictures of 1638
the trends—the response was not, "We are a research 1639
complex, we let 100 flowers bloom," but rather an 1640
assertion of central control. Chief economist Nick Stern 1641
gave one manager "special responsibility" for making 1642
sure the Bank's poverty numbers were all "coherent" 1643
(Stern to research managers, email, April 4, 2002). 1644
28. Non-World Bank champions of the idea that 1645
globalization improves global income distribution 1646
include Martin Wolf of The Financial Times (Wolf, 1647
2002b; source of the epigraph; Wolf, 2000, 2001a, 1648
2001b); also Giddens, described by some as a leading 1649
social theorist of his generation (2002, p. 72), and Ian 1650
Castles, former Australian Statistician, who claims that 1651

- 1652 “most studies suggest that the past 25 years have seen a
1653 reversal in the trend towards widening global inequal-
1654 ities which had been proceeding for two centuries”
1655 (Castles, 2001).
- 1656 29. In addition to the studies referenced elsewhere I
1657 draw on: Firebaugh (1999), Jones (1997), Pritchett
1658 (1997), Quah (1997), UNDP (1999), Kanbur (2002),
1659 Korzeniewicz and Moran (1997, 2000).
- 1660 30. A reviewer comments, “The idea of using market
1661 exchange rates to calculate international inequality is
1662 unbelievably stupid, and it is amazing that it still makes
1663 an appearance here. The UN had a commission of
1664 enquiry on this, which concluded unambiguously that
1665 using market exchange rates was wrong.” But, the
1666 World Bank continues to use market exchange rates,
1667 adjusted by the “Atlas” methodology, to calculate the
1668 per capita incomes that it then uses to rank countries by
1669 their degree of development; and hence as a criterion for
1670 its lending decisions. Member countries’ voting shares in
1671 the Bank are based largely on their Fund quotas, which
1672 in turn are based largely on relative GDP at market
1673 exchange rates. So the Bank’s practice does imply that it
1674 thinks that relative per capita incomes calculated
1675 through market exchange rates are meaningful proxies
1676 for well-being (and the practice has the benefit of
1677 holding down the voting share of developing countries).
1678 Moreover, as the text explains, incomes converted at
1679 market exchange rates do give meaningful measures of
1680 international purchasing power. Businesses making
1681 exporting and FDI decisions (auto makers, for example)
1682 pay more attention to relative incomes at market
1683 exchange rates than to PPP incomes.
- 1684 31. Dikhanov and Ward (2003).
- 1685 32. Milanovic (2002b).
- 1686 33. ECLA (2002, p. 85). The dispersion of per capita
1687 GDP/PPP is measured as the average logarithmic
1688 deviation, the dispersion of growth rates as the standard
1689 deviation.
- 1690 34. In an earlier debate with Martin Wolf I wrongly
1691 said that the result depends on both China and India.
1692 Wolf commented, “Here you argue that if we exclude
1693 China and India, there is no obvious trend in inequality.
1694 But why would one want to exclude two countries that
1695 contained about 60% of the world’s poorest people two
1696 decades ago and still contain almost 40% of the world’s
1697 population today? To fail to give these giants their due
1698 weight in a discussion of global poverty alleviation or
income distribution would be Hamlet without the princ.” (Wolf, 2002a). This misconstrues my argument.
35. Dowrick and Akmal (2001). They find that world
inequality increased over 1980–93 using Gini, Theil,
coefficient of variation, and the variance of log income.
36. Milanovic’s (2002a) preliminary analysis of 1998
data and an associated reworking of 1988 and 1993 data
has produced the following Gini coefficients (and stan-
dard deviations): 1988: 61.9 (1.8), 1993: 65.2 (1.8), 1998:
64.2 (1.9). The trend for the Theil coefficient is similar
(personal communication, June 9, 2003). Sala-i-Martin
(2002) finds a drop in both extreme poverty and
inequality. His findings have been rejected in Milanovic
(2002c) and Nye and Reddy (2003).
37. Dikhanov and Ward (2003).
38. See the work of James Galbraith and collaborators
in the University of Texas Inequality Project, [http://
utip.gov.utexas.edu](http://utip.gov.utexas.edu). Also, Galbraith (2002).
39. This is the answer to a reviewer’s remark, “The
work of Galbraith and his collaborators at Texas is
essentially worthless for the purposes currently being
discussed. We are interested in people’s command over
resources, not the earnings of people in work in the
formal sector. The latter is transparently irrelevant in
most of the poor countries of the world, including India
and China.”
40. See Kyngé (2002) and Rawski (2002). As another
example from Rawski’s analysis, Chinese government
figures show total real GDP growth of 25% during 1997–
2000, whereas energy consumption figures show a drop
of 13% (not all of which is likely to be due to
replacement of inefficient coal-fired furnaces.) Rawski
estimates the growth rate since 2000 has been about half
the official rate. See further Waldron (2002).
41. World Bank sources who request anonymity.
During negotiations for China’s joining the WTO
Chinese economists argued against the insistence of the
United States and other rich countries that its average
income be expressed in terms of purchasing power
party—and hence that China should be under the same
obligations as “middle-income” countries, tougher than
those on “low-income” countries. This is another
example of the politics of statistics.
42. In addition, taking account of even just the
obviously big and roughly measurable environmental

- 1744 costs lowers China's official GDP by roughly 8%,
1745 India's, by 5%. See Hommann and Brandon (1995).
- 1746 43. Evidence for rising inequality in India over the past
1747 two decades is set out in Jha (2000). Deaton agrees that
1748 inequality in India has been increasing "in recent years,"
1749 and that consumption by the poor did not rise as fast as
1750 average consumption (Deaton, 2002).
- 1751 44. Some sources give ratios of 7:1 in the early 1990s to
1752 11:1 in the late 1990s. But these figures take Shanghai as
1753 the richest province. With Shanghai province = city as
1754 the numerator the ratio reflects not only regional
1755 disparity but also rural-urban disparity, and more
1756 specifically, the growth of a new Hong Kong within
1757 China (one whose average income is exaggerated
1758 because nonpermanent residents are not included in its
1759 population). For these points I thank Andrew Fischer,
1760 PhD candidate, Development Studies Institute, LSE.
- 1761 45. Krugman (2002).
- 1762 46. Babones (2002).
- 1763 47. Dikhanov and Ward (2003).
- 1764 48. World Bank (2002c).
- 1765 49. In this Section I draw on the arguments of Rodrik
1766 (1999, 2001).
- 1767 50. Besley (2002). Besley uses indicators such as press
1768 freedom, democratic accountability, corruption, civil
1769 rights.
- 1770 51. Cf. "As they reformed and integrated with the
1771 world market, the 'more globalized' developing coun-
1772 tries started to grow rapidly, accelerating steadily from
1773 2.9% in the 1970s to 5% through the 1990s" (World
1774 Bank, 2002c, p. 36, emphasis added).
52. Rodrik (1999). 1775
53. Wade (2003a [1990]). 1776
54. Milanovic (2002b). Milanovic finds that in coun- 1777
tries below the average income of about \$PPP 5,000, 1778
higher levels of openness (imports plus exports/GDP) 1779
are associated with lower income shares of the bottom 1780
80% of the population. 1781
55. Quoted in George (1997). 1782
56. Besley and Burgess (2003). 1783
57. Lee and Bankston (1999), Hsieh and Pugh (1993), 1784
Fajnzylber, Lederman, and Loayza (1998) and Freeman 1785
(1996). 1786
58. Demeny (2003). 1787
59. Wade (2003b, 2003c). 1788
60. Kapur (2002). 1789
61. For a good example of a heterodox book from a 1790
corner of the UN system, see UNDP (2003). The WTO 1791
lobbied to prevent its publication. 1792
62. Wade (2003d). 1793
63. Gopinath (1999). 1794
64. Key experts in the relevant statistical unit thought 1795
that colleagues had fiddled the China income numbers 1796
reported in Table 4, but their boss ignored their 1797
objections. 1798
65. For discussion of causes see Wade (2002b, in 1799
press). 1800

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