

犀牛，其死亡数量已从2007年的13头上升至2011年的448头。而在2012年此文编写之时，南非已有28头犀牛遭到猎杀（SA DoEA, 2012）。2010年全球大象捕杀量继2002年之后，又创造了新的最高纪录（国际濒临绝种动植物贸易公约2011a），因而中非问题引起广泛关注。贫困、无效的管理和不断增加的象牙需求，仍然驱使人们进行捕猎。一头成年雄性大象的象牙的价值相当于一个非技术工人15年的工资（Wittemyer 等 2011）。

尽管我们就象牙贸易制定了相关的国际协议，在一些国家也取得了一定的进展，但是国内外贸易禁令的实施力度并没有能够保护这一物种。2011年的情况是几十年来最糟糕的一年，大量象牙被收缴。在13次大型象牙收缴活动中，大约扣留了23吨，这些象牙来自于大约2500头被猎杀的大象（TRAFFIC 2011）。据报告，大部分象牙将被运往亚洲。

非法交易包括，欺诈申请《濒临绝种野生动植物国际贸易公约》条例，滥用合法狩猎的权利和利用货运走私象牙等。2011年发起的非洲象行动计划旨在加强法律手段，抑制大象捕猎和非法象牙贸易活动，加大对大象的保护力度。国际反捕杀野生动物联盟在2011年开始实施一项计划，对捕猎野生动物犯罪者实施与之罪行相对应的严厉的处罚，这与当前犯罪侦查效率不高，处罚力度不大的现状形成了对比（CITES 2011b）。



2011年的3个月内，马来西亚收缴了3000多个象牙，足以证明马来西亚的法律实施能力显著提高。捕杀活动的不断攀升与象牙的价格密切相关。
来源：TRAFFIC Asia

处于食物链顶端的物种，诸如狼、狮子、鲨鱼等动物的数量急剧下降，是人类对大自然产生的普遍影响之一（Estes 等 2011）。由于捕猎活动和栖息地的破坏，这些“高级消费者”逐渐消失，因而引起了生态系统的一系列复杂变化。他们的消失引起了一连串相关的复杂生态系统变化。由于科学家很难证明食物链中位于顶端的动物对下端的影响，因此这种影响对生态系统的重塑将会达到何种程度难以估计。然而，随着环境变化的加剧，为了确保做出的每项决策都具有科学性，我们急需将科学和政策制定结合起来。

气候变化严重影响生物多样性，在未来有可能导致大规模动植物迁徙。这些变化可能进一步威胁物种的生存，严重的则会影响地球能源、碳、水和生物地球化学循环。到2100年，40%陆地，诸如草地或冻土之类，可能会移至另一个地方（Bergengren 等 2011）。科学家们从行为和基因两个角度，首次建立了一评估动物应对气候变化反应的模型（Coulson 等 2011）。该模型是基于对美国黄石公园的灰狼研究的纵向数据分析而建立起来的，目的是希望该模型能够帮助预测许多动物群种对于气候变化产生的反应。

展望未来

学家警告人们：环境已从过去12000年的文明稳定发展稳定期（全新世）迅速向一个具有完全不同特征的未来过渡（有人把它称作人类世）（Steffen 等2011）。随着人口的增长，过去采用的一些短期解决方法已不适用，迁徙移民是一个很好的例子，在过去，一旦环境遭到破坏或生产力下降，人们即迁徙其他地区。当今时代人类活动的影响已经不仅仅体现在对周边事物的影响，北极和海底的环境变化证实了这一点。

地球是一个复杂的生态系统，各种成分相互紧密联系，然而有些成分（如土壤）的重要性被大大地忽略。举例来说，在本年鉴第二章中提到的土壤中碳的多种益处，直到最近才开始受到非土壤领域科学家们的关注。地球系统科学还处于形成发展的初期，但是一些科学家声称，人类已经不能控制气候变化、生物多样性的减少，富营养化，尤其是氮磷的过度排放（Rockstrom 等 2009）。其它急需控制的问题包括，

同温臭氧层的消耗、海洋的酸化、全球淡水的消耗、农业用地的改变以及大气和化学污染。

由于新的通讯手段与观察方法的出现，我们越来越多地了解环境问题的复杂性。我们做出的许多决定影响着生态系统，有益于促进我们赖以生存的生命支持系统的形成。对未来的发展方案可以帮助我们展望未来并权衡我们做出的每一个选择，并考虑其有可能会带来的影响。例如，英国一项研究审查了城市发展的不同情景。（Eigenbrod 等 2011）。在密集型住房增长情景下，城市地区解决洪水问题的能力减弱——就已预测到的越来越频繁的严重极端气候所带来的气候变化影响来说，这是一项很重要的服务。如果是在低密度住宅情景下，就不会遭受这种影响，但是可耕地和土壤中的碳含量将会有减少，碳含量的多少对于不断增长的人口和抑制气候变化是极其重要的。只有在科学的指导下做出正确的

规划和明智的决定，才能在这两者之间取得最大化的利益。

我们需要从国际角度来权衡采取行动与否所带来的影响。从全球角度来看，对于是否采取措施的讨论将会成为2012年6月联合国可持续发展大会（里约峰会）的中心议题，。我们将集中全力构建可持续发展体制框架，并在可持续发展和消除贫困的背景目标下，发展绿色经济。

回顾过去一年中新的科学和发展，为了应对可持续发展带来的挑战，人口增长、资源利用、气候变化、大面积污染和生物多样性丧失，这些问题都呼吁我们从当地到全球开展行动。2011年9月，实际行动的倡导者，诺贝尔和平奖得主，肯尼亚绿带运动创始人，马塔伊去世了，但我们仍将她的环保工作继续下去。各地领导人、民间团体、全球企业和政策制定者们，在战胜环境可持续发展中面临的挑战时发挥着重大作用。

图为孟加拉国达卡一个拥挤的市场。世界人口在不断增长，为了满足人们对于食物和可持续发展的需求，采取怎样的措施应对环境挑战至关重要。
来源：IFPRI



2011

大事记



世界粮食价格连续第七个月达到历史最高。

联合国国际森林年始于联合国粮农组织发布的《2011年世界森林状况报告》，报告中强调了林业在绿色经济中发挥的重要作用。

在荷兰鹿特丹世界生物燃料市场大会举行期间，可持续生物燃料圆桌会议发起建立一个全球认证系统。人们希望这个系统能够推进全球生物燃料行业的可持续发展。



联合国关注土地利用及其可持续发展，并支持世界候鸟日的举行。

世界气象组织暨组织最高领导机构会议在日内瓦召开，就世界气象组织在2012年—2015年的战略方向进行讨论。

联合国正式宣布索马里存在两个饥荒地区，这是近30年来联合国第一次宣布饥荒区的存在。



诺贝尔和平奖获得者、肯尼亚绿带运动创始人旺加里·马塔伊教授在内罗毕逝世，享年71岁。

联合国环境规划署国际儿童青年会议以表示对《万隆宣言》的支持而落下帷幕，呼吁里约峰会参与者们多关注儿童和青年的需求。

118名巴塞尔公约代表一致同意解除修正案，该修正案禁止从经合组织向非经合组织国家出口危险废弃物。

联合国环境规划署宣布十亿植树运动已经达到了它的120亿里程碑。此次运动旨在通过植树带来的多种好处，改善社区生活质量。



阿联酋环境和水资源外交部、阿布扎比环境局与联合国环境规划署在阿布扎比市签署了《地球眼宣言》，此宣言强调了共享环境数据和借助该共享数据做出政策决定的重要性。

1月	1月
2月2日	2月
3月22日	3月
5月14日—15日	4月
5月16日至6月3日	5月
7月20日	6月
8月1日	7月
9月26日	8月
10月1日	9月
10月21日	10月
11月8日	11月
12月15日	12月

严重的地震和海啸致使日本福岛核电站一系列设备遭到破坏。

国际海洋废弃物第五次大会的参加者们同意“火奴鲁鲁承诺”，起草了几种减少海洋废弃物的方法，呼吁提高公众的认识。

第三次全球减少灾害风险平台会议承诺将改善灾害预防。

联合国安理会就其应对气候变化中的作用召开特别会议。联合国秘书长指出，气候变化威胁国际和平与安全。



世界水周的参加者发布斯德哥尔摩声明，呼吁全面提高水资源利用效率及其适用性。



联合国粮农组织发起全球土壤伙伴关系，旨在制定有利的政策从而为土壤保护和管理提供专业技术。

联合国生物多样性论坛，即政府间生物多样性和生态系统服务小组，在肯尼亚首都内罗毕举行第一次会议。

10月10日至21日 《联合国防治荒漠化公约》第十次会议在韩国举行，此次会议就如何推进对沙漠化、土地恶化和干旱的治理进行了讨论。

世界人口已达到70亿，人们愈发担心世界将来如何为日益增长的人口提供足够的食物和水。

世界自然保护联盟和生物多样性公约秘书处签署入侵物种协议，致力于识别入侵物种及其入侵的途径。

在南非德班举行的《联合国气候变化框架公约》第十七次缔约方/缔约方会议上，德班平台得到采纳。该平台扩展了《京都议定书》的意义，并建立绿色气候基金框架。





2012

大事记



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