Contents

Executive summary	1
Agriculture and forestry	2
Natural terrestrial ecosystems	3
Hydrology and water resources	4
Human settlements, energy, transport, and industrial sectors, human health and	
air quality	4
Oceans and coastal zones	5
Seasonal snow cover, ice and permafrost	5
Future action	6
Scenarios	8
	10
Summary of findings	12
Potential impacts of climate change on agriculture, land use and forestry	12
Potential impacts on agriculture	12
Major findings	12
Principal issues	12
Magnitudes of possible dislocation	12
Most vulnerable regions and sectors	12
Effect of altered climate extremes	13
Effects on crop growth potential, land degradation, pests and	
diseases	13
Regional impacts	14
Adaptation in agriculture	14
Recommendations for action	14
Potential impacts on managed forests and the forest sector	15
Biophysical effects on forest ecosystems	16
Socioeconomic implications	17
Adaptation	17
Recommendations for action	18
Description of discussions and the	
Potential impacts of climate change on natural terrestrial ecosystems and the	19
socioeconomic consequences	19
Major findings	20
Principal issues	20
Particularly sensitive species	
Changes in the boundaries of vegetation zones	20
Changes within ecosystems	21
Recommendations for action	23
Potential impacts of climate change on hydrology and water resources	23
Major findings	23
Principal issues	24
Regional impacts	24
Continental/national	24
River basins and critical environments	25
Large lakes/seas	26
Laige lakes/ seas	~0