Semantic Glossar

Team NextGen Books

Co-Site

Co-Kreation in der Region – Systemisch und innovativ Transfer entwickeln

Technology Arts Sciences TH Köln

> NextGen Book Services Open Science Lab, TIB

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Über dieses Projekt

Dies ist eine laufende Demonstration eines Workflows für die Erstellung von Glossaren, die Speicherung von Linked Open Data, die Ausgabe in mehreren Formaten und die Verwendung von Glossaren für die Datenanalyse - zum Beispiel für die Suche in Open-Literature-Beständen.

Weitere Informationen über die Entwicklung des Workflows finden Sie hier.

Ein in Bearbeitung befindliches Beispiel (semantisches Glossar) ist ebenfalls enthalten. Bei dieser Demonstration handelt es sich um ein Glossar, das mit Hilfe einer verknüpften offenen Datenspeicherung verwaltet wird.

Als Maßstab wurde das Glossar Climate Change Terms der US Environmental Protection Agency, EPA (2013), verwendet. Die EPA verwendet einen Terminologieservice und Leitfaden zur Erstellung und Speicherung ihrer Webglossare.

Co-Site

360-Grad-Video Video, das in alle Richtungen gleichzeitig aufgenommen wird, sodass sich die Zuschauer:innen in jede Richtung umsehen können. Diese Videos bieten ein immersives Erlebnis, bei dem Betrachter:innen das Gefühl haben, mitten im Geschehen zu sein, wenn sie das Video auf einem Bildschirm oder mit einer VR-Brillen betrachten. Verwandt: VR-Brille, Immersion XR
Agenda 2030 siehe Sustainable Development Goals Verwandt: sustainable development goals, SDG
Transformation
Agilität Agilität ist die Fähigkeit einer Organisation, sich schnell an Veränderungen und Ereignisse anzupassen. Dies beinhaltet Flexibilität in Strukturen, Prozessen und Arbeitsweisen, um auf neue Anforderungen und Ressourcenverfügbarkeit zu reagieren. Dadurch können kontinuierliche Verbesserungen erzielt, Herausforderungen bewältigt und das gemeinsame Zielverständnis reflektiert und angepasst werden. Projekt
Akteur:innen Proaktiv oder aktiv handelnde Personen, Institutionen oder Organisationen im Wirkungsfeld des Reallabors oder eines Teilbereichs (Thema, Standort etc.) davon. Projekt

Akteursnetzwerkanalyse Eine Analyse der Beziehungen der Interessens- und Anspruchsgruppen. Sie dient als Arbeitsgrundlage zur Erfassung und Einbindung relevanter Akteur:innen, zur Erstellung von Wissen, das gesellschaftlich akzeptiert und tragfähig ist, sowie zur Akzeptanz der entwickelten Lösungsansätze. Projekt
Allgemeine Weiterbildung Allgemeine Weiterbildung bezeichnet Bildungsmaßnahmen, die sich nicht direkt auf berufliche Anforderungen beziehen, sondern darauf abzielen, die allgemeinen Kenntnisse, Fähigkeiten und das Wissen von Menschen zu erweitern. Diese Art der Weiterbildung fördert sowohl die persönliche als auch die gesellschaftliche Entwicklung und richtet sich an eine breite Zielgruppe. Weiterbildung
Ambiguität Mehrdeutigkeit eines Begriffs oder Sachverhalts. Beinhaltet auch situative Unsicherheiten und entscheidungsrelevante Uneindeutigkeiten, wenn verschiedene Möglichkeiten offenstehen und eine eindeutige Antwort oder ideale Lösung nicht offensichtlich ist. Kommunikation
Anfälligkeit siehe Vulnerabilität Synonyme: Vulnerabilität Risikomanagement

Anpassungsfähigkeit

bezieht sich auf die Fähigkeit, verfügbare Ressourcen und Strategien, die Schäden von stressauslösenden Rahmenbedingungen und Entwicklungen zu bewältigen.

Gefahr, KRITIS			

AR-Brille

Eine AR-Brille (Augmented Reality-Brille) ist ein tragbares Gerät (HMD), das wie eine Brille getragen wird und digitale Informationen in die reale Welt einblendet. Diese Brillen projizieren virtuelle Ele-

mente, wie Bilder oder Texte, in das Sichtfeld des Benutzers und ermöglichen so interaktive und erweiterte Erfahrungen.

Verwandt: Augmented Reality

Unterbegriff von: Head-Mounted Display

XR

Augmented Reality

(AR)

Virtuelle Inhalte (z.B. starre oder bewegte Objekte), die mit der realen Umgebung überlagert werden (dt. augmentierte Realität, auch erweiterte Realität genannt). Diese überlagerte Zusatzinformation wird in Echtzeit von einem Gerät wie einem Smartphone, Tablet oder speziellen AR-Brillen angezeigt.

Verwandt: Virtual Reality

XR

Augmented Virtuality

(AV)

Augmented Virtuality (dt. augmentierte Virtualität) bezeichnet eine teils virtuelle Umgebung, in der reale Inhalte eingefügt werden. Dabei werden Informationen aus der realen Welt, wie zum Beispiel Objekte oder Personen, in eine virtuelle Welt integriert.

Unterbegriff von: Extended Reality

XR

Balanced Scorecard (BSC)

Die Balanced Scorecard ist ein Konzept zur Messung, Dokumentation und Steuerung der Aktivitäten einer Organisation in Bezug auf ihre Vision und Strategie. Sie kombiniert Indikatoren aus verschiedenen Perspektiven und fördert dadurch die Transparenz sowie die strategische Ausrichtung der Unternehmungen.

Wirkung

Bedarfsanalyse

Eine Bedarfsanalyse ermittelt systematisch Lücken und künftige Handlungsfelder in einem Themenfeld, einer Organisation oder Ziel- bzw. Dialoggruppe. Ziel ist es, basierend darauf, ziel- und themenorientierte Maßnahmen zu entwickeln und diese nachfrageorientiert anzubieten.

Verwandt: Prospektive Evaluation Wirkung
Begleitforschung
Synonym für formative Evaluation.
Synonyme: Formative Evaluation Wirkung
Berufliche Weiterbildung Berufliche Weiterbildung bedeutet, dass eine Person nach ihrer Ausbildung zusätzliche Fähigkeiten erwirbt. Entweder, um bestehendes Wissen zu vertiefen (Fortbildung), sich auf eine höhere Position vorzubereiten (Aufstiegsweiterbildung) oder eine neue berufliche Richtung einzuschlagen (Umschulung). Weiterbildung
Best Practices Praktiken, Methoden und Verhaltensweisen, die in der Praxis zum Einsatz kommen und erprobt, verbreitet und (besonders) positiv evaluiert sind. Einfache Beschreibung: In der Praxis erprobte, verbreitete und positiv evaluierte Praktiken, Me-
thoden und Verhaltensweisen.
Unterbegriff von: Practices
Projekt
Betriebliche Weiterbildung Bei betrieblicher Weiterbildung handelt es sich um organisierte und vollständig oder teilweise vom Arbeitsgeber finanzierte Weiterbildungsmaßnahmen in unterschiedlichen Lernformaten (Lernvideos, digitale oder analoge Workshops, Hackathons, Barcamps)
Weiterbildung

Bevölkerungsschutz
Der Bevölkerungsschutz beschreibt als Oberbegriff alle Aufgaben und Maßnahmen der Kommunen und der Länder im Katastrophenschutz sowie des Bundes im Zivilschutz.
Risikomanagement

Bildung für Nachhaltige Entwicklung (BNE)

Bildung, die Menschen zu zukunftsfähigem Denken und Handeln befähigt, indem sie ermöglicht die Auswirkungen des eigenen Handelns auf die Welt zu verstehen. Sie berücksichtigt dabei explizit planetare Grenzen. Abkürzung: BNE

iranstormation		
Blackout Ungeplanter, großflächig <i>KRITIS</i>	ger und langanhaltender Stromausfall.	

Blaue Infrastruktur

Netzwerk aus wassergeprägten Flächen und Elementen, die strategisch zur Bewältigung von Problemen im Wasserkreislauf (z.B. Wasseraufbereitung, Dürren, Regenwasserbewirtschaftung) angelegt werden. Natürliche Systeme sind u.a. Seen oder Flüsse; geplante Systeme umfassen Retentionsflächen, oder Flussrenaturierungen. Oft Schnittstellen zur grünen Infrastruktur.

Einfache Beschreibung:	Wasserbezogene Infrastruktur
GBI	
_	

Blau-grüne Infrastruktur (BGI)

Strategisch geplantes Netzwerk natürlicher und naturnaher Flächen bei besonderer Berücksichtigung der Wechselwirkungen mit dem natürlichen und technischen Wasserkreislauf (Wasserspeicherung, Hochwasser, Dürren, Wasseraufbereitung, Regenwasserbewirtschaftung). Primäre Elemente sind u.a. Retentionssysteme, Zisternen, Rigolen und urbane Gewässer; sekundäre Elemente sind u.a. Regengärten, Gründächer.

Einfache Beschreibung: Dieses Konzept kombiniert Wasserbewirtschaftung (blau) mit Vegetation (grün), um nachhaltige und resiliente städtische und ländliche Umgebungen zu schaffen.

Unterbegriff von:	Infrastruktur
GBI	

Change Agents Personen(-gruppen), die aktiv Transformation im Wirkbereich des Reallabors initiieren oder bestehende Prozesse voran bringen und als Vorreiter:innen und Transformationsbeschleuniger:innen für Stakeholder des Reallabors fungieren Transformation
Citizen Science Direkte Beteiligung von Bürger:innen am Forschungsprozess, beispielsweise beim Daten sammeln, auswerten und aufbereiten. Der Fokus liegt hierbei auf der aktiven Wissenschaftsgestaltung und -durchführung von Bürger:innen. Partizipation
Co-Design aktive und methodengeleitete Einbindung relevanter Stakeholdergruppen in den Forschungs- und Entwicklungsprozess
Einfache Beschreibung: Sinnvolle Einbindung verschiedener Stakeholder in Prozesse. Dies passiert methodengeleitet und bewusst, unterstützt durch schrittweise Reevaluation und Anpassung gemeinsam mit relevanten Personen(-gruppen). Um seinem Anspruch gemäß sinnvoll zu sein, muss Co-Design stark kontext-angepasst vorgehen: Einzelne Elemente variieren je nach Stakeholder, Situation, Ort, Ressourcen, etc
Unterbegriff von: Co-Kreation Partizipation
Co-Kreation Gemeinschaftliche Gestaltung eines End- oder Zwischenprodukts unter Einbezug verschiedener Interessensgruppen Partizipation
Co-kreative Wissenschaftskommunikation Anhand der Kommunikationsbedürfnisse gesellschaftlicher Gruppen, wie Bürger:innen, werden

Anhand der Kommunikationsbedürfnisse gesellschaftlicher Gruppen, wie Bürger:innen, werden gemeinsam Inhalte sowie Formate der Wissenschaftskommunikation erdacht, produziert und entwickelt.

Kommunikation		

Co-kreativer Workshop

Ein methodisch strukturiertes Setting der Zusammenarbeit mehrerer Personen, welches zumeist von einer Moderation geleitet wird. Ziel ist die gemeinschaftliche Erarbeitung, Gestaltung und Entwicklung eines oder mehrer Outputs, welche sowohl abstrakter als auch gestalterischer Natur sein können.

Partizipation
Controller Ein Controller ist ein Eingabegerät, das Nutzer:innen ermöglicht, Befehle und Aktionen an ein elektronisches System, beispielsweise einen Computer, zu senden. Beispiele sind Gamepads, Joysticks oder VR-Controller. Digitale Technologien
Co-Site Forschungsprojekt "Co-Kreation in der Region – Systematisch und innovativ Transfer entwickeln" (Kurzform: Co-Site) der TH Köln, gefördert vom Bundesministerium für Bildung und Forschung (BMBF) innerhalb der Initiative Innovative Hochschule <i>Projekt</i>
Co-Site-Glossar Das Glossar des Projekts Co-Site erklärt zentrale Begriffe und Konzepte des Projekts Co-Site verständlich für alle Beteiligten. Es stellt die gemeinsame Basis der Kommunikation und das Verständnisses innerhalb des Projekts und darüber hinaus dar. Einfache Beschreibung: Das Glossar des Projekts Co-Site. Unterbegriff von: Glossar Projekt
Dachbegrünung Dachbegrünung beinhaltet die Bepflanzung von Dächern und bietet ökologische, ästhetische und funktionale Vorteile. Es gibt zwei Haupttypen: extensive Begrünung und intensive Begrünung. Die Hauptvorteile sind die Verbesserung des Stadtklimas, des Wassermanagements, der Energieeffizienz und der Biodiversität sowie die Steigerung der ästhetischen Qualität und der Lebensqualität in urbanen Räumen. GBI

Vom Inhalt (Text, Bild, etc.) der Datei abhängige Struktur einer Datei. Es zeigt an zu welcher Art von Datei es gehört (z.B. Systemdatei oder Textdatei). Beispiele für Dateiformaten sind: DOCX, DOC, XLSX, XLS, PPTX, PPT, TXT, RTF, JPEG, PNG, TIFF und BMP Informationssystem, Daten
Datenerfassung Ein Prozess der Sammlung und Messung von Informationen über bestimmte Variablen in einem etablierten System, der es ermöglicht, relevante Fragen zu beantworten und Ergebnisse zu bewerten. InfoTool
Dateninteroperabilität Fähigkeit, die Daten sinnvoll zu kombinieren und zu formatieren, so dass sie von einem System in ein anderes übertragen werden können. Daten
Datenkatalog Verzeichnis, welches Daten und Metadaten enthält und dazu dient, die in einem Unternehmen oder einem Projekt verfügbaren Datenquellen zu beschreiben und zu organisieren. Ein Datenkatalog erleichtert das Auffinden, Verstehen und Verwalten von Daten durch Dokumentation und Suchfunktionen. Daten
Datenvisualisierung Die grafische Darstellung von Informationen und Daten unter Verwendung visueller Elemente wie Diagramme, Grafiken und Karten zum Verständnis von Mustern, Trends und Ausreißern in einem Datensatz InfoTool, Co-Site
Dezentrale Regenwasserversickerung Versickerung von anfallendem Niederschlagswasser direkt vor Ort. Dies dient dem Erhalt des natür-

lichen Wasserkreislaufs sowie der Entlastung des Kanalnetzes und der Kläranlagen.

GBI

Dialoggruppe

Eine Person oder Gruppe von Menschen, die in den Entwicklungsprozess durch aktive Teilhabe integriert werden, und die durch die Maßnahmen des Reallabors angesprochen werden sollen.

Verwandt: Zielgruppe
Kommunikation

Didaktisches Design

Didaktisches Design bezeichnet den systematischen Planungs- und Gestaltungsprozess von Lernumgebungen und Weiterbildungsangeboten. Ziel ist es, Lernziele, Lerninhalte und ggf. Prüfungen so aufeinander zu beziehen, dass sie kompetenzorientiert ausgerichtet sind und den Lernenden optimale Bedingungen für den Lernerfolg bieten.

Weiterbildung

Digitaler Zwilling

Ein Digitaler Zwilling ist ein virtuelles Modell eines physischen Objekts oder Systems, welcher dessen Merkmale und Verhalten wie bspw. physikalische Eigenschaften in Echtzeit widerspiegelt. Diese digitale Repräsentation ermöglicht Analysen, Simulationen und Optimierungen, wodurch die Leistung und Effizienz des realen Gegenstücks verbessert werden können.

Verwandt: Simulationen, Urbaner Digitaler Zwilling

Digitale Technologien

Dürre

Eine durch geringeren Niederschlag und/oder hohe Evapotranspiration verursachte Trockenheit, die stark (statistisch signifikant) von dem Normalzustand in einer gegebenen Periode abweicht . Man unterscheidet meteorologische (v.a. Niederschlag), landwirtschaftliche (v.a. Bodenfeuchtigkeit), hydrologische (v.a. Abfluss). und sozio-ökonomische Dürren (v.a Auswirkungen auf Wirtschaft und Gesundheit).

Einfache Beschreibung: Meint eine Trockenheit, welche aufgrund von weniger Regen und/oder die Verdunstung von Wasser durch Pflanzen und den Boden hoch ist, was zu einem deutlich trockeneren Zustand führt als üblich.

GBI ______

Dürreindex

Wert, der das Ausmaß, die Dauer und die Intensität von Dürrebedingungen angibt. Dürreindizes basieren in der Regel auf Niederschlags-, Verdunstungs-, und Bodenfeuchtigkeitsdaten einer Regi-

on. Geläufige Beispiele sind der Standardized Precipitation Evaporation Index (SPEI) oder Palmer Drought Severity Index (PDSI).
Naturgefahren, Risikomanagement
Entsiegelung Rückgängigmachen einer Flächenversiegelung. Zumeist im Zusammenhang mit der Schaffung von Grünland und Flächen zur Versickerung von Regenwasser und der Wiederherstellung der Bodenfunktion in und um Städte. GBI
Entwicklungsteam Besteht aus Expert:innen verschiedener Disziplinen mit unterschiedlichen Fähigkeiten, die ein Produkt planen, gestalten und umsetzen. Ziel ist es, effizient zusammenzuarbeiten, um Lösungen zu entwickeln, Anforderungen zu erfüllen und Projektdokumentationen zu erstellen. Sie nutzen oft agile Methoden zur Organisation und kontinuierlichen Verbesserung ihres Arbeitsauftrags und ihrer Zusammenarbeit. Projekt
Erweiterte Realität Siehe Augmented Reality XR
Evaluation Evaluation stellt die systematische und empirische Analyse von Konzepten, Bedingungen, Prozessen und Wirkungen zielgerichteter Aktivitäten dar (siehe Hager, Patry & Brezing, 2000). Ziel ist es, Wirkungen zu planen sowie Erkenntnisse über Wirksamkeiten zu gewinnen und aus diesen zu lernen. Wirkung
Evapotranspiration Gesamtwasserverlust einer Fläche an die Atmosphäre über eine bestimmte Zeit. Sie setzt sich aus der Evaporation (Verdunstung) von Oberflächenwasser und der Transpiration von Wasser durch Lebewesen (v. a. Pflanzen) zusammen.

11

Einfache Beschreibung: Verdunstung aus Wasser- und Landoberflächen sowie aus der Tier- und

Pflanzenwelt. *Ökosystem*

Eine Expertisegruppe ist ein Team von Fachleuten und Expert:innen, die über spezifisches Wissen und Erfahrung in einem bestimmten Bereich verfügen. Diese Gruppe findet sich zusammen, um tiefgehende Analysen, Bewertungen oder Entwicklungen zu einem bestimmten Thema durchzuführen. Expertisegruppen werden eingesetzt, um fundierte Entscheidungen zu unterstützen und komplexe Probleme zu lösen. Projekt
Exposition Die Situation von Personen, Infrastruktur, Gebäude, Industrie und anderen essentiellen Dienstleistungen in gefährdeten Bereichen. KRITIS
Exposition Exposition beschreibt die Verortung einer Person, eines Gebäudes, einer Stadt oder eines Ökosytsems gegenüber einer Gefahr. Eine hohe Exponiertheit begünstigt das Risiko. Naturgefahr, Risikomanagement
Extended Reality (XR) Extended Reality (XR) umfasst alle Technologien, die die reale mit der digitalen Welt verschmelzen, einschließlich der folgenden: VR - Virtuelle Realität, AR - Erweiterte Realität, MR - Gemischte Realität. XR
Externe Wissenschaftskommunikation Kommunikation über wissenschaftliche Inhalte und Ergebnisse zwischen der Wissenschaft und anderen gesellschaftlicher Akteur:innen. Verwandt: Interne Wissenschaftskommunikation Unterbegriff von: Wissenschaftskommunikation Kommunikation

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Ein außergewöhnliches Ereignis, das sehr selten ist und in seiner Ausprägung deutlich vom bisherigen Mittelwert abweicht. Kann zu hohen Schäden führen (z.B. Hitzewelle, Starkregen oder Blackout).

Einfache Beschreibung: Naturgefahren	Ein außergewöhnliches Ereignis, das zu hohen Schäden führen kann.
erkennen, wohin eine Pers	nologie, die die Bewegungen und Positionen der Augen erfasst, um zu son schaut. Dies kann in VR-Systemen verwendet werden, um das System bassen und eine natürlichere Interaktion zu ermöglichen, sowie Messda-
erreichen. Hauptarten sind besserung des Mikroklima und Fassadenschutz sowie	J ng von Fassaden, um ökologische, ästhetische und funktionale Vorteile zu d die direkte und indirekte Fassadenbegrünung. Hauptvorteile sind: Ver- s, Energieeffizienz, Schallschutz, Förderung von Artenvielfalt, Gebäude- e das Erscheinungsbild und die Lebensqualität in urbanen Räumen. denbegrünung, Indirekte Fassadenbegrünung
	ruck remote sensing abgeleitete Begriff Fernerkundung umschreibt die n, die das kontaktlose wissenschaftliche Beobachten und Erkunden eines uben.
sen durch einen gesättigte	gebnis von starken Niederschlägen. Können die anfallenden Wassermas- en, gefrorenen oder versiegelten Boden nicht aufgenommen werden, Isgebiet in den Fluss. Fließen die Wassermassen dort nicht schnell genug ie Ufer.

Fluviale Überflutung

Gewässerzustand, bei dem der Wasserstand deutlich über dem normalen Pegelstand liegt und meist zu Überflutungen führt.

Einfache Beschreibung: Überflutung durch überlaufende Gewässer *Naturgefahren*

Formative Evaluation

Formative Evaluation findet prozessbegleitend statt, d.h. sie ist wichtiger Bestandteil der Projektumsetzung. Durch den kontinuierlichen Vergleich aktueller Entwicklungen mit der ursprünglichen Zielsetzung ermöglicht sie die frühzeitige Entdeckung von Fehlentwicklungen und damit die Anpassungsfähigkeit an (veränderte) Bedarfe. Auch als Synonym für Begleitforschung und Wirkungsmonitoring

Unterbegriff von: EvaluationSynonyme: Wirkungsmonitoring

Wirkung

Fortbildung

Fortbildungen sind berufsbezogene Weiterbildungsangebote, die dazu dienen, die Fähigkeiten und Kenntnisse im aktuell ausgeübten Beruf zu erweitern (Anpassungsfortbildung) oder den beruflichen Aufstieg innerhalb desselben beruflichen Feldes zu fördern (Aufstiegsfortbildung).

Weiterbildung

Fühlbarer Wärmestrom

Fluss von thermischer Energie, der als Änderung von Temperaturen direkt gemessen (gefühlt) werden kann (z.B. Erhitzung der Luft über einer heißen Asphaltoberfläche).

Daten

Future Skills

Future Skills sind Zukunftskompetenzen, die für aktuelle und künftige berufliche, gesellschaftliche und persönliche Herausforderungen bedeutend sind. Dazu zählen u. a. Kompetenzen, um Zukunft zu gestalten, mutig Neues anzugehen, Veränderungen zu bewirken, neue Lösungen zu entwickeln.

Weiterbildung

Game-Based Learning (GBL)

"Game-Based Learning" (dt. "spielebasiertes Lernen") steht für das Lernen mit Spielen, sowohl mit Lernspielen als auch mit "normalen" Spielen. Durch interaktive Elemente können komplexe Themen auf spielerische Weise verständlich gemacht werden. GBL fördert aktive Teilnahme und kann in verschiedenen Bildungskontexten, von Schulen bis zur beruflichen Weiterbildung, eingesetzt werden.

WCIGCII.	
Digitale Technologien	
Gamification	
Gamification beschreibt die Handlung, Spielmethoden o gen, Umgebungen oder Prozessen einzubinden. Digitale Technologien	der -elemente in spielfremden Anwendun-
Gefahr	
Zustand, Umstand oder Vorgang, durch dessen Einwirku stehen kann.	ng ein Schaden an einem Schutzgut ent-
Naturgefahren 	
Gefahrenabwehr	
Staatliche Maßnahmen zur Abwehr von Gefahren für die arbeiten Polizei, Feuerwehr, Katastrophenschutz und and und Gefährdungen von Menschen, Sachgütern und Umv	dere Behörden zusammen, um Schaden
Risikomanagement	
Gefahrenkarte (GK)	
Beschreibt die räumliche Ausdehnung eines Events oder fahr, das mögliche negative Auswirkungen auf das gezei Naturgefahren	

Gemeinwohlorientierung

Gemeinwohlorientierung fokussiert darauf, Entscheidungen und Maßnahmen zu treffen, die das Wohl der gesamten Gesellschaft im Fokus haben. Dabei steht nicht der individuelle oder wirtschaft-

sondere, aber nicht ausschließlich, die Stärkung von benachteiligten Gruppen bedeuten.
Verwandt: Impact Projekt
Geodaten Alle Daten mit direkten oder indirekten Bezug zu einem bestimmten Standort auf der Erdoberfläche. Daten, Informationssystem
Geodatenbank Eine Datenbank, die das Speichern, Abfragen und Analysieren von Geodaten (Punkt, Linie, Polygon) ermöglicht. <i>InfoTool</i>
Geodatendienste Dienste, die den Zugang zu und die Verarbeitung von Geodaten über das Netz ermöglichen (Karte, Web Map Service, Web Feature Service). InfoTool
Geodatenformat Standard für die Kodierung geografischer Informationen in einer Computerdatei als spezielles Dateiformat (.shp,.tif,.geojson) zur Verwendung in geografischen Informationssystemen (GIS) und anderen raumbezogenen Anwendungen. Informationssystem, Daten
Geodateninfrastruktur Infrastruktur, bestehend aus Geodaten, Metadaten, Geodiensten, gemeinsamen Vereinbarungen, Netzdiensten und Technologien, die den Zugang zu Geoinformationen und deren Verwaltung er- leichtern Informationssystem, Daten
Geodatensatz eine Sammlung von Daten, die verwandten geografischen Merkmalen entsprechen

InfoTool

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Geodatenverarbeitu Verwendung eines Rahme ein abgeleitetes Geodater <i>InfoTool</i>	ens oder einer Reihe von Werkzeugen zur Bearbei	tung von Geodaten, um
Geoinformationssys (GIS)	item	
	fassung, Speicherung, Verarbeitung, Visualisierur umlichen Verknüpfung nicht-räumlicher Datensä	
Geokodierung Der Prozess der Umwandli ten (z.B. Breiten- und Läng GIS, InfoTool	ung von Adressen (z.B. einer Straßenadresse) in g gengrad).	geografische Koordina-
die Verwaltung und Veröft	und Geospatial Content Management System (CI fentlichung von Geodaten. Es ermöglicht nicht sp zen und interaktive Visualisierungen (Karten, Geo	ezialisierten Nutzern,
•	ient, geografische Informationen und damit verb erarbeitung, Analyse usw.) über das Internet zu fir	5 5
Georeferenzierung Der Prozess der Verknüpfu Koordinatenreferenzsyster GIS, InfoTool	ung eines digitalen Rasterbildes oder einer Vektor m.	datenbank mit einem

GeoServer Ein Open Source-Webserver auf Java-Basis, der es Benutzern ermöglicht, Geodaten unter Verwendung der vom Open Geospatial Consortium (OGC) definierten offenen Standards zu visualisieren und zu bearbeiten. <i>InfoTool</i>
Geostories Ein Tool in GeoNode, das dem Benutzer die Möglichkeit bietet, durch die Kombination von Text, interaktiven Karten und anderen multimedialen Inhalten wie Bildern und Videos oder anderen Inhalten von Drittanbietern fesselnde Geschichten zu erstellen. Informationssystem
Global Change Anthropogen ausgelöste, umfassende und langfristige Veränderungen des Erdsystems. Dies umfasst Klimawandel, Landnutzungsänderungen, Urbanisierung, Verlust der Biodiversität und Verschmutzung. Die Auswirkungen sind global und betreffen Umwelt, Gesellschaft und Wirtschaft. Einfache Beschreibung: Weltweite Veränderungen der natürlichen Prozesse (z.B. Klimawandel, Wüstenbildung), die durch die Aktivität des Menschen auf der Erde hervorgerufen wurden bzw. werden, und ihre wechselseitigen Einflüsse auf den Menschen. Transformation
Glossar Eine strukturierte Sammlung von Begriffen mit Bedeutungserklärungen, die im Kontext des Glossars Gültigkeit haben und für alle Beteiligten verständlich sind. Ein Glossar wird kooperativ erstellt und fortlaufend gepflegt. Einfache Beschreibung: Eine strukturierte Sammlung von Begriffen mit Bedeutungserklärungen. Projekt
Green Skills Green Skills umfasst Handlungswissen und -kompetenzen sowie Werte, die für die Gestaltung einer nachhaltigen Gesellschaft und Wirtschaft erforderlich sind, um ressourceneffiziente, nachhaltige

Wirtschafts- und Arbeitswelten sowie lebenswerte Umgebungen zukunftsfähig zu gestalten.

Weiterbildung

Grün-blaue Infrastruktur (GBI)

Netzwerk aus Vegetationselementen (grün) in einem Flächenplan, das auch Wasserkomponenten (blau) integrieren kann. Die Flächen sind naturnah angelegt oder bereits natürlich vorhanden. Grüne Elemente wie Parkanlagen fördern die Biodiversität, den Erhalt von Ökosystemdienstleistungen. Blaue Elemente wie Überflutungs- und Retentionsflächen betreffen eher den Wasserkreislauf.

GBI

Grundhochwasser

Bei normalen Wasserstand fließt Grundwasser in Richtung von Flüssen ab. Bei Flusshochwasser strömt jedoch Flusswasser in Richtung des Landes, weshalb das Grundwasser nicht mehr abfließen kann. Das nicht abfließende Grundwasser seigt an und führt zu Überflutungen durch Grundhochwasser.

Naturgefahren

Grüne Infrastruktur

(GI)

Netzwerk aus strategisch geplanten angelegten Strukturen von natürlichen und naturnahen Flächen. Sie fokussieren sich meist auf städtische Bereiche einer Landschaft und dienen zur Erhaltung oder Erstellung von Biodiversitätskorridoren und bieten Ökosystemleistungen. Darunter fallen Maßnahmen wie Dach-/Fassadenbegrünung, Stadtbäume, Alleen, Parks und Stadtwälder.

Verwandt: Blau-grüne Infrastruktur

GBI

Hand-Tracking

Hand-Tracking im VR/AR-Bereich bezieht sich auf die Technologie, die es ermöglicht, die Bewegungen und Positionen der Hände eines Benutzers in Echtzeit zu erfassen und in der virtuellen oder erweiterten Umgebung darzustellen. Dies erfolgt meist durch Kameras, welche Handgesten und deren Position präzise erkennen, um Interaktionen ohne physische Controller zu ermöglichen.

Verwandt: Eye-Tracking Digitale Technologien

Härtung

Durch Härtung können Organisationen und Institutionen ihre Infrastrukturen, Systeme und Prozesse widerstandsfähiger gegen Bedrohungen machen. Es werden die Auswirkungen von Risiken

verringert sowie die Fähigkeit auf Zwischenfälle oder negative Ereignisse zu reagieren und sich davon zu erholen verbessert. KRITIS, Risikomanagment
Head-Mounted Display (HMD)
Ein Head-Mounted Display ist ein tragbares visuelles Anzeigesystem, das vor den Augen des Benutzers positioniert wird und visuelle Informationen direkt in das Sichtfeld projiziert. Oft in Form einer Brille oder eines Helms genutzt, ermöglichen HMDs immersive Erlebnisse in Virtual Reality (VR) und Augmented Reality (AR). Sie enthalten kleine Displays oder Projektoren zur Darstellung der Inhalte. XR
Hochwasser
Hochwasser ist eine zeitlich beschränkte Überschwemmung von normalerweise nicht mit Wasser bedecktem Land, insbesondere durch oberirdische Gewässer oder durch in Küstengebiete eindringendes Meerwasser. Davon ausgenommen sind Überschwemmungen aus Abwasseranlagen. Einfache Beschreibung: Hochwasser ist eine zeitlich beschränkte Überschwemmung von normalerweise nicht mit Wasser bedecktem Land. Naturgefahren
Hochwassergefahrenkarte (HWGK)
Informiert über die mögliche Ausdehnung und Tiefe einer Überflutung, durch Pegelanstieg von i.d.R. Oberflächengewässern und der zu erwartenden Fließgeschwindigkeit; informiert allein über die mögliche Gefahr
Naturgefahren, Risikomanagement
Hochwasserrisikokarte (HWRK)
Zeigt, wo Schäden durch ein Hochwasser entstehen können, also jene Gebiete, die von einer Hochwassergefahr betroffen sind unter Berücksichtigung von Einwohnerzahl, Schutzgebieten, Industrie anlagen und Kulturstätten
Risikomanagement, Naturgefahren

Immersion Immersion bezeichnet das Erleben des Eintauchens in eine virtuelle oder künstlich geschaffene Umgebung. In diesem Zustand fühlen sich die Benutzenden so, als wären sie tatsächlich Teil dieser Umgebung, was durch Technologien wie bspw. VR-Brillen, hochwertige Grafiken und räumlichen Sound erreicht wird. XR
Impact Impact bezeichnet Veränderungen auf gesellschaftlicher Ebene, die durch Projektaktivitäten erreicht wurden. Impact ist die vierte von vier Stufen des IOOI-Wirkungsmodells. Wirkung
InfoTool Eine webbasierte Plattform zur Speicherung, Visualisierung, Analyse und gemeinsamen Nutzung von räumlichen und nicht-räumlichen Daten zur Unterstützung der Klimaanpassung auf kommuna ler Ebene im Rahmen des CoSite-Projekts. <i>GIS, GeoNode</i>
Infrastruktur Materielles, institutionelles und personelles Fundament einer funktionierenden Gesellschaft oder eines funktionierenden Systems. Unterschieden wird häufig zudem in technische und soziale Infrastruktur. Einfache Beschreibung: Materielles, institutionelles und personelles Fundament einer funktionierenden Gesellschaft. GBI, KRITIS
Input Ressourcen, wie z.B. Arbeitskräfte, Sach- und Finanzmittel, die im Projekt eingebacht werden können. Input ist die erste von vier Stufen des IOOI-Wirkungsmodells. Wirkung
Interdependenz

Interaktion oder gegenseitige Beeinflussung zwischen verschiedenen kritischen Infrastrukturen.

KRITIS

Interne Wissenschaftskommunikation
Kommunikation über wissenschaftliche Inhalte und Ergebnisse, die zwischen Wissenschaft-
ler:innen stattfindet.
Kommunikation
Kapazität
Die Kombination aller Stärken, Eigenschaften und Ressourcen, die innerhalb einer Organisation, Gemeinschaft oder Gesellschaft vorhanden sind, um Katastrophenrisiken zu bewältigen und zu verringern und die Widerstandsfähigkeit zu stärken.
Verwandt: Katastrophe
Risikomanagement
Kartenprojektion
ist ein mathematisches Verfahren, welches genutzt wird, um die dreidimensionale Erdoberfläche als zweidimensionale (ebene Fläche) darstellen zu können. Da es verschiedene Kartenprojektionen gibt, wie z.B. winkel- oder flächentreue Projektionen, kommt es zu Verzerrungen. Die Auswahl einer Projektion hängt daher vom Zweck und der Region ab. <i>GBI, Daten</i>
Kaskadeneffekt
Ein kaskadierender Ausfall liegt vor, wenn eine Störung in einer Infrastruktur den Ausfall einer Komponente in einer zweiten Infrastruktur verursacht, was wiederum zu einer Störung in der zweiten Infrastruktur führt. Verstärkt wird dieser Effekt, wenn es sich dabei um Kritische Infrastrukturen mit gegenseitiger Abhängigkeit handelt. KRITIS
Katastrophe
Eine schwerwiegende Störung des Funktionierens eines Gemeinwesens oder einer Gesellschaft auf beliebiger Ebene aufgrund von gefährlichen Ereignissen in Wechselwirkung mit den Bedingungen der Exposition, Anfälligkeit und Kapazität, die zu einem oder mehreren der folgenden Punkte führt: menschliche, materielle, wirtschaftliche und ökologische Verluste und Auswirkungen.
Einfache Beschreibung: Eine Katastrophe ist ein großes Unglück, das das normale Leben stark stört. Es verursacht Schäden bei Menschen, Gebäuden, der Wirtschaft und der Umwelt. Katastrophen können zum Beispiel durch Naturereignisse wie Erdbeben oder durch menschliche Aktivitäten wie Unfälle passieren.

Naturgefahren, Risikomanagement

Katastrophenschutz

(KatS)

Eine landesrechtliche Organisationsform zur Gefahrenabwehr bei Katastrophen, bei der alle beteiligten Behörden und Organisationen unter einheitlicher Führung zusammenarbeiten. Er umfasst koordiniertes Vorgehen zur Vermeidung, Bewältigung und Minimierung von Katastrophen, um Menschenleben zu schützen, Sachschäden zu begrenzen und die Funktionsfähigkeit kritischer Infrastrukturen aufrechtzuerhalten.

Klimarisiko Das physische Risiko, welches aus den Auswirkungen des Klimawandels resultiert. Das Klimarisiko setzt sich aus den Elementen Naturgefahr, Exposition, Sensitivität und Anpassungskapazität eines betrachteten Systems zusammen. Klima
Klimaschutz Maßnahmen, die dem Klimawandel entgegenwirken; zielen darauf ab das Klima in einem für den Menschen bewohnbaren Bereich zu stabilisieren. Im Fokus steht die Minimierung des anthropogenen Treibhauseffektes durch Verhindern oder Abmindern der Ursachen (z.B. mineralische Abscheidung von CO2). Klimaschutz hat auch positive Nebeneffekte auf Ökosysteme, z.B. wirkt er der Versauerung der Meere entgegen. Einfache Beschreibung: Maßnahmen, die dem Klimawandel entgegenwirken. Klima
Klimawandelanpassung Die Anpassung eines Systems (z.B. Kommune, Haushalt, Landwirtschaft) an die zu erwartenden klimatischen Änderungen und Folgen des anthropogenen Klimawandels der Gegenwart und Zukunft Berücksichtigt werden negative und positive Folgen. Aktivitäten sind technisch, infrastrukturell, sozial, kulturell, wirtschaftlich, ökologisch oder administrativ. Wird oft synonym zu Klimaanpassung verwendet. Transformation, Klima
Kollaborativ zusammenarbeitend; gemeinsam im Team Probleme lösen und Ideen entwickeln, sodass verschiedene Sichtweisen integriert werden können Partizipation
Kommunikation Der Austausch oder die Übertragung von Informationen, die sowohl direkt als auch indirekt über verbale und nonverbale Signale (Sprache, Tonfall, Gesten) sowie über Medien (Schrift, Bilder) digita und analog vermittelt werden können. Einfache Beschreibung: Der Austausch oder die Übertragung von Informationen über Personen oder vermittelt durch Medien

Kommunikation

Koordinatensystem
Ein Referenzsystem, um die Position eines Objekts im Raum mit Hilfe von Zahlen, den Koordinaten, zu definieren.
GIS, InfoTool
Krise
Vom Normalzustand abweichende Situation mit dem Potenzial für oder mit bereits eingetretenen Schäden an Schutzgütern, die mit der normalen Aufbau- und Ablauforganisation nicht mehr bewältigt werden kann, sodass eine Besondere Aufbauorganisation (BAO) erforderlich ist.
Einfache Beschreibung: Eine außerordentliche und nicht vorhersagbare Situation, die nicht mit herkömmlichen Mittlen zu bewältigen ist und reputationsschädigend sein kann.
Risikomanagement
Krisenmanagement
Prozess, um Risiken zu identifizieren, zu bewerten und zu steuern. Ziel ist es, potenzielle Gefahren oder Schäden frühzeitig zu erkennen, deren Auswirkungen abzuschätzen und geeignete Maßnah-
men zu ergreifen, um diese Risiken zu minimieren oder zu kontrollieren.
Risikomanagment
KRITIS-Branche
Die Untergliederung in einem der KRITIS-Sektoren. Der KRITIS-Sektor Energie umfasst beispielsweise die KRITIS-Branchen Elektrizität, Gas, Mineralöl und Fermwärme.
Unterbegriff von: KRITIS-Sektoren
KRITIS
Kritische Infrastrukturen (KRITIS)
Kritische Infrastrukturen sind Organisationen und Einrichtungen mit wichtiger Bedeutung für das staatliche Gemeinwesen, bei deren Ausfall oder Beeinträchtigung nachhaltig wirkende Versorgungsengpässe, erhebliche Störungen der öffentlichen Sicherheit oder andere dramatische Folgen eintreten würden. (Bundesministerium des Inneren 2009)
Einfache Beschreibung: Kritische Infrastrukturen sind wichtige Einrichtungen und Organisationen. Wenn sie ausfallen oder Probleme haben, kann dies zu längeren Versorgungsengpässen,
donen wern sie dasianen oder i fosierrie haberi, karin dies zu langeren versorgungsengpassen,

großen Störungen der öffentlichen Sicherheit oder anderen ernsthaften Folgen führen.

KRITIS

KRITIS-Sektoren
Die Gesamtheit aller Sektoren, die laut Bundesamt für Bevölkerungsschutz und Katastrophenhilfe als kritische Infrastrukturen eingeordnet werden, z.B. Wasser, Energie, Ernährung, Finanz- & Versicherungswesen, Gesundheit, Informationstechnik & Telekommunikation, Siedlungsabfallentsorgung, Medien & Kultur, Stadt & Verwaltung, Transport & Verkehr.
Einfache Beschreibung: Die Gesamtheit der KRITIS-Sektoren.
KRITIS

Latenter Wärmestrom

Fluss von thermischer Energie, der nicht direkt proportional durch eine Änderung der Temperatur gemessen werden kann (z.B. thermische Verdunstung von Wasser aus einem Pflanzenblatt). Auch: Verborgener Wärmestrom.

GBI, Daten			

Lernsettings

Lernsettings regen Lernende darin an, sich Handlungswissen und -kompetenzen anzueignen. Beispiele gibt es viele, wie z. B.: Workshops, Barcamps, E-Learningformate, Blended Learning (Kombination aus Präsenzphasen und Online-Lernen), immersive Lernwelten, Reallabore.

Weiterbildung

Makroebene

Ebene der Wissenschaftskommunikation mit dem Ziel der Kommunikation über das Gesamtsystem wissenschaftlicher Funktionen und Leistungen für die Gesellschaft.

Kommunikation			

Megatrends

Tiefgreifende, langfristige Entwicklungen, die globale Auswirkungen auf Gesellschaft, Wirtschaft, Technologie und Umwelt haben. Sie beeinflussen verschiedene Lebensbereiche nachhaltig und verändern grundlegende Strukturen und Verhaltensweisen über Jahrzehnte hinweg. Beispiele für Megatrends sind Klimawandel, Digitalisierung und demografischer Wandel.

Iransformation			

Mesoebene

Ebene der Wissenschaftskommunikation mit dem Fokus auf die Kommunikation wissenschaftlicher Einrichtungen zu eigenen Aufgaben und Leistungen.

Kommunikation

-		
Metadaten strukturierte Daten, die Ir Daten	nformationen über andere Daten und Datenquelle	n enthalten
	kommunikation mit dem Fokus auf die Kommunik ungsthemen sowie Projekten (Vorhaben und Ergel	
•	ereiche zwischen realer Umgebung und vollständi AV, und ermöglicht Interaktionen in beiden Richtu ten.	
Modellregionen Räumlich abgegrenzte Beerprobt und evaluiert wir Projekt	ereiche, in denen Transformation exemplarisch im i d.	regionalen Kontext
Monitoring Synoym zu formativer Eva Wirkung	aluation.	
heutigen Gesellschaft so im besten Fall nutzt. Die o	anden im Sinne einer nachhaltigen Entwicklung, ir befriedigt werden, dass es zukünftigen Generatior drei Dimensionen wirtschaftlich effizient, sozial gei lleichberechtigt betrachtet.	nen nicht schadet oder

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Umfasst die Entwicklung von Strategien, Maßnahmen und Konzepten hinsichtlich der nachhaltigen Entwicklung sowie das Hinwirken auf deren Umsetzung. Ziel ist es ökonomische, ökologische und soziale Bedürfnisse in Einklang zu bringen und dabei eine intergenerationale Gerechtigkeit zu fördern.

Transformation
Nachhaltigkeitsstrategie Konzept, welches einen strategischen und methodischen Umsetzungsplan in Richtung einer nachhaltigen Entwicklung vorweist. Die Umsetzung kann auf nationaler, regionaler und kommunaler
Ebene erfolgen. Transformation
Naturbasierte Lösung sind Maßnahmen, die von der Natur inspiriert und durch sie unterstützt werden, sie gehen(gesellschaftliche) Herausforderungen an, bieten viele Ökosystemleistungen, einschließlich des Gewinns an biologischer Vielfalt, haben eine hohe Effektivität und weisen eine hohe wirtschaftliche Effizienz auf. GBI
Nature-based Solution siehe Naturbasierte Lösung Verwandt: Naturbasierte Lösung GBI
Naturgefahren Ein spezifisches, plötzlich eintretendes Ereignis, das die latente Gefahr tatsächlich realisiert und zu schädlichen Folgen führt. Gefahr

		-		
N	ΔVŤ	Pra	ctic	ΔC

Im Gegensatz zu Best Practices sind Next Practices bisher noch nicht erprobte Praktiken, Methoden und Vorgehensweisen. Sie sind zukunftsorientiert und lösen sich von bisherigen Best Practices um neues auszuprobieren und entweder zu scheitern oder neue Best Practices zu finden.

Einfache Beschreibung: Next Practices sind zukunftsorientierte Praktiken, Methoden und Vorgehensweisen, die ausprobiert werden, um neue Best Practices zu finden.

Projekt _____

Ökosystemdienstleistungen

Leistungen, die ein Ökosystem dem Menschen bereitstellt. Entscheidend für das menschliche Wohlbefinden und die nachhaltige Entwicklung. Können regulierender (z.B. Klimaregulierung, Bestäubung), unterstützender (z.B. Bodenbildung, Nährstoffkreislauf), kultureller (z.B. Erholung, Tourismus) und versorgender (z.B. Nahrung, Wasser) Natur sein.

Ökosystem

Ökosystemfunktion

Umfasst alle physikalischen, chemischen und biologischen Prozesse, die in einem Ökosystem stattfinden und dessen Selbsterhaltung und Entwicklung sicherstellen.

Ökosystem

Open Geospatial Consortium (OGC)

Ein globales Konsortium von Experten, das sich für die Verbesserung des Zugangs zu Geodaten oder Standortinformationen einsetzt.

GIS, InfoTool

Open Science

Offene Wissenschaft, die sich durch Grundsätze und Praktiken auszeichnet, die die Zugänglichkeit, Nutzbarmachung, Transparenz und Weiterverwertbarkeit von wissenschaftlichen Ergebnissen, Erkenntnissen, Forschungsdaten und Publikationen ermöglichen sowie den offenen Dialog mit anderen Wissenssystemen und die Einbindung gesellschaftlicher Akteure fördern.

Wissensmanagement _____

Outcome
Outcomes bezeichnen Veränderungen im direkten Projektkontext und in der Zielgruppe, die durch das Projekt bewirkt wurden. Outcome ist die dritte von vier Stufen des IOOI-Wirkungsmodells.
Wirkung
Output Outputs sind Leistungen, wie z.B. Workshops, Konzepte etc., die durch Projektaktivitäten erstehen, um Wirkungsziele zu erreichen. Ouput ist die zweite von vier Stufen des IOOI-Wirkungsmodells. Wirkung
Partizipation Beteiligung von Personen(-gruppen) an Entscheidungen bzw. Entscheidungsprozessen, welche die Gemeinschaft betreffen <i>Partizipation</i>
Partizipative Wissenschaftskommunikation Formate der Wissenschaftskommunikation, die interaktiv und partizipativ ausgerichtet sind und die Beteiligung von gesellschaftlichen Akteur:innen in den Prozess der Forschung unterstützen. Sie unterscheidet sich dadurch von der rein informierenden und wissensvermittelnden Wissenschaftskommunikation. Kommunikation, Partizipation
Partner:innen Als Partner:innen werden zum einen Unterstützer:innen des Projektantrages durch einen Letter of Intent bezeichnet und zum anderen ⊠Akteur:innen, die als Teil des ⊠Transformationsnetzwerks neu als Partner:innen gewonnen wurden und aktiv im Projekt mitwirken. Partner:innen können Institu- tionen, Unternehmen und Einzelpersonen aus Zivilgesellschaft, Wirtschaft, Politik und Verwaltung sein. Einfache Beschreibung: Akteur:innen, die das Projekt unterstützen und aktiv mitwirken Verwandt: Akteur:innen Projekt

Permeable Oberflächen Durchlässige Oberflächen versickern, behandeln und/oder speichern Regenwasser dort, wo es fällt. Sie können aus durchlässigem Beton, offenporigem Asphalt, durchlässigen Verbundpflastersteinen oder offenen Wiesen/Flächen bestehen. GBI
PET-Wert Der PET-Wert (physiologisch äquivalente Temperatur) ist ein Maß zur Bewertung des thermischen Komforts und Wohlbefindens des Menschen unter verschiedenen Umgebungsbedingungen. Die PET berücksichtigt dabei nicht nur die Lufttemperatur, sondern auch andere meteorologische Größen wie Luftfeuchtigkeit, Windgeschwindigkeit und Strahlungstemperatur sowie die physiologischen Reaktionen des Körpers. Naturgefahren

Pluviale Überflutung

Überflutung durch Sturzfluten aus Starkregen weit ab vom Gewässer **Einfache Beschreibung:** Überflutung von Flächen durch Starkregen

Verwandt: Fluviale Überflutung

GBI

Practices

Praktiken, Methoden und Verhaltensweisen, die in der Praxis zum Einsatz kommen und mehr oder weniger erprobt, verbreitet und evaluiert sind.

Einfache Beschreibung: Praktiken, Methoden und Verhaltensweisen, die in der Praxis zum Einsatz kommen.

Projekt

		<i>'</i> e		

Maßnahmen zur Vermeidung und Verringerung von Risiken.

Verwandt: Risiko *Risikomanagement*

Projektkommunikation

ist die interne und externe Kommunikation beispielsweise über Ziele, Inhalte und Aktivitäten des Projekts. Ziel ist die Einbindung von Partner:innen, dem Team und externen Dialoggruppen des

Projekts. Außerdem leistet die Projektkommunikation einen Beitrag zur \boxtimes Wissenschaftskommunikation.
Verwandt: Projektmarketing
Kommunikation
Projektmarketing
Die externe Kommunikation beispielsweise über Ziele, Inhalte und Aktivitäten des Projekts. Ziel ist die Präsentation des Projekts durch eine werbende Darstellung, um z.B. neue Partner:innen oder Fördergeber:innen zu gewinnen.
Verwandt: Projektkommunikation
Kommunikation
Prospektive Evaluation
Eine prospektive Evaluation findet ex-ante statt, d.h. auf Grundlage erster Ideen und Konzepte und vor deren Implemetierung. Sie umfasst v.a. Bedarfs- und Konzeptanalysen und hat das Ziel potentielle Wirkungen abzuschätzen und mit den Ergebnissen Entscheidungen zur Ausgestaltung der Interventionen zu stützen.
Verwandt: Bedarfsanalyse
Wirkung
Prototyp
Ein Prototyp im Kontext von Reallaboren ist eine vorläufige, experimentelle Version eines neuen Ansatzes oder Produkts. Er dient dazu, innovative Ansätze und Konzepte in einer realitätsnahen Umgebung zu testen und weiter zu optimieren. Partizipation
Qualifikation
Qualifikation bezeichnet die Summe an Wissen, Fähigkeiten und Erfahrungen, die eine Person in einem bestimmten Bereich erworben hat und die sie befähigt, bestimmte Aufgaben und Tätigkeiten kompetent auszuführen. Sie kann durch formale Bildung, Berufserfahrung oder spezifische Weiterbildung erworben werden und dient als Nachweis der Eignung für bestimmte Berufe oder Positionen. Weiterbildung

Qualifizierungsbedarf beschreibt den Bedarf an Weiterbildung, der notwendig ist, um Handlungswissen und -kompetenzen einer Person oder einer Gruppe von Personen an die aktuellen Anforderungen und Herausforderungen in ihrem Berufsfeld oder Tätigkeitsbereich anzupassen bzw. zu erweitern.
Weiterbildung
Rasterdaten eine Darstellung von Geodaten unter Verwendung einer Matrix von Zellen (oder Pixeln), die in Zeilen und Spalten (oder einem Gitter) organisiert sind, wobei jede Zelle einen Wert enthält, der Informationen darstellt. GIS, InfoTool
Räumliche Analyse Geoinformationssystem (GIS) Techniken zur Lösung von ortsspezifischen Problemen, zur Erkennung von Mustern und zur Bewertung von Raumdaten für die Entscheidungsfindung. GIS, InfoTool
Räumliche Auflösung Größe der Erdoberfläche, die in einem Pixelwert eines Datenprodukts (z.B. Satellitenbild) erfasst und abgebildet wird
Daten, Informationssystem
Realexperiment

Reallabor

Projekt

kontext des Reallabors bei. **Unterbegriff von:** Reallabor

Qualifizierungsbedarf

Ein Reallabor ist ein instutionell-struktureller Rahmen, der zeitliche und räumliche Komponenten hat. Dadurch wird ein Rahmen erzeugt, in dem Akteur:innen aus Wissenschaft, Gesellschaft, Politik und Verwaltung gemeinsam Lösungen, Praktiken und Methoden für reale Probleme entwickeln

Zeitlich und räumlich abgeschlossene Untersuchung, die mit und ohne Co-Kreation im Reallabor durchgeführt wird. Es trägt zur Wissensproduktion und zum vielschichtigen Transfer im Themen-

und diese in deren realen Kontext erproben, um zur sozial-ökologischen Transformation beizutragen.
Einfache Beschreibung: Ein zeitlich und räumlich abgesteckter Rahmen in dem Akteur:innen aus Wissenschaft und Gesellschaft gemeinsam Lösungen für reale Probleme entwickeln und erproben. <i>Projekt</i>
Regenwasserbewirtschaftung bezeichnet das Abführen (Versickerung, Zwischenspeicherung, Verdunstung, Behandlung) und Nutzen von anfallendem Niederschlagswasser. Ziel ist die Rückführung des Niederschlagswassers in den natürlichen Wasserkreislauf. GBI
Rückführung eines Landschaftsraumes in einen nutzbaren Zustand, der zuvor durch wirtschaftliche Aktivitäten des Menschen unnutzbar bzw. geschädigt wurde. Ziel ist die Wiederherstellung eines wirtschaftlich nutzbaren Ökosystems, im Gegensatz zur Renaturierung, die ausschließlich zur Schaffung neuer Lebensräume dient. GBI
Renaturierung Wiederherstellung eines naturnahen Zustandes von Flächen (oft Gewässer oder landwirtschaftliche Flächen). Im Gegensatz zur Rekultivierung hat die Fläche danach keine ökonomischen Funktionen mehr (Einschränkung: Tourismus), sondern es werden naturnahe Lebensräume geschaffen in dem Nutzung und Eingriffe durch den Menschen rückgängig gemacht werden. Verwandt: Revitalisierung GBI
Resilienz Fähigkeit von Systemen und Lebewesen, Ereignissen zu überstehen beziehungsweise sich daran anzupassen und dabei Funktionsfähigkeiten zu erhalten und das Überleben zu sichern. Ökosystem, Risikomanagement

Responsive Wissenschaftskommunikation

Beteiligung von gesellschaftlichen Gruppen, wie Bürger:innen, an der Themenfindung für von Expert:innen der Wissenschaftskommunikation entwickelte Formate. Im nächsten Schritt werden diese Formate von der angesprochenen Gruppe selbst inhaltlich bespielt. Kommunikation
Retentionsfläche Natürliche oder künstlich angelegte Fläche, die bei Hochwasser oder anderen hydrologischen Spit zenbelastungen Wasser temporär speichert. Im Kontext von Fließgewässern dienen sie als Überflutungsflächen und tragen zu einer Abflussverzögerung bei, indem sie den Flussquerschnitt erweitern. GBI
Revitalisierung Wiederbelebung eines Naturraums, der durch den Menschen beeinträchtigt ist. Verwandt: Renaturierung Ökosystem
Risiko Kombination aus der Eintrittswahrscheinlichkeit eines Ereignisses und den potenziellen, negativer Folgen des Ereignisses auf ein System <i>Risikomanagement</i>
Risikokarte Ist eine Karte, welche die Auswirkung einer Gefahr auf eine angegebene Fläche beschreibt. Dabei wird die Anzahl der betroffenen Bevölkerung, die Art der wirtschaftlichen Tätigkeiten sowie das vorhanden sein von Kulturstätten betrachtet. Risikomanagement, Naturgefahren
Risikomanagement Ist der Prozess um Risiken zu identifizieren, zu bewerten und zu steuern. Ziel ist es, potenzielle Gefahren oder Schäden frühzeitig zu erkennen, deren Auswirkungen abzuschätzen und geeignete

Maßnahmen zu ergreifen, um diese Risiken zu minimieren oder zu kontrollieren.

Risikomanagement

Rückhaltevolumen Kapazität des maximalen Wasservolumens, welches in einer technischen oder natürlichen Retentionsanlage zurückgehalten werden kann.
urbaner Retentionsraum, GBI
Schaden Negativ bewertete Auswirkung auf ein Schutzgut. Der Schaden kann sowohl materiell als auch ideell sein.
Einfache Beschreibung: Negative Auswirkungen auf ein Schutzgut. <i>Risikomanagement</i>
Schutzgut Alles, was aufgrund seines ideellen oder materiellen Wertes vor Schaden bewahrt werden soll. Risikomanagement
Schwammstadt Urbanes Konzept für das Regenwassermanagement. Durch entsiegelte Flächen und Retentionsräume wird die Stadt widerstandsfähiger gegenüber extremen Wetterereignissen, verbessert die Wasserqualität und Lebensqualität. Regenwasser wird zurückgehalten, gespeichert, versickert, ver dunstet, wiederverwendet oder gedrosselt und gereinigt abgeleitet. Dies wird durch grüne und blaue Infrastruktur erreicht. GBI
Das Ausmaß, in dem ein System oder eine Art durch Klimaschwankungen oder -veränderungen beeinflusst wird. Die Auswirkung kann direkt (z. B. eine Änderung der Ernteerträge als Reaktion auf eine Änderung des Mittelwerts, der Spanne oder der Variabilität der Temperatur) oder indirekt (z. B. Schäden durch eine Zunahme der Häufigkeit von Küstenüberschwemmungen aufgrund des Meeresspiegelanstiegs) sein. KRITIS
Serious Games

Serious Games sind eine Unterkategorie von Spielen, wie Videospiele, Karten- oder Brettspiele. Sie verfolgen gezielt Bildungs- und Lernziele, anstatt ausschließlich der Unterhaltung zu dienen und

nutzen spielerische Elemente und wissenschaftliche Konzepte, um den Lernprozess zu fördern und die Motivation der Nutzer zu steigern. XR
Simulationen Nachbildungen der realen Welt und ihrer physikalischen Eigenschaften mit hoher Immersion (auch Simulation Games). Sie werden für Lern- und Lehrzwecke, Trainings sowie computerbasierte Experimente genutzt. Technische Simulationen nutzen mathematische Methoden, um zukünftige Entwicklungen und Folgen vorherzusagen und darzustellen. XR, Digitale Technologien
Sites Partnerkommunen des Projekts Co-Site, derzeit Stadt Leverkusen (als Großstadt), Kolpingstadt Kerpen (als Mittelstadt), Erftstadt (Mittelstadt), Rhein-Erft-Kreis (als Kreis). Einfache Beschreibung: Modellregionen des Projekts Co-Site Projekt
Stakeholder Zu berücksichtigende Personen oder (organisiertierte) Personengruppen im Rahmen eines Projekts Dabei handelt es sich um alle von den Auswirkungen und der Durchführung des Projekts betroffene Gruppen oder Entitäten. Verwandt: Dialoggruppe, Zielgruppe Projekt
Starkregen Sehr große Niederschlagsmengen, die oftmals nur auf kleinen Gebieten und in kurzer Zeit fallen. Sie können Kanäle und Gewässer überlasten, was zu Überschwemmungen und Überflutungen führen kann. Naturgefahren
Starkregengefahrenkarte (SRGK) Zeigt Gefahrenbereiche außerhalb von Fließgewässern auf, die bei einem Starkregenereignis überschwemmt werden. Naturgefahren Bisikomanggement
Naturgefahren, Risikomanagement

Starkregenindex (SRI)
Dient der Charakterisierung von Starkregenereignissen und wird auf einer Skala von 1 (niedrig) bis 12 (hoch) angegeben. Die Starkregenindices geben das Gefahrenrisiko bei Überflutungen wider.
Naturgefahr
Starkregenrisikokarte
Zeigt, wo Schäden durch Überschwemmungen durch Starkregen entstehen können. Aufgezeigt werden die Gebiete, die von einer Starkregengefahr betroffen sind unter Berücksichtigung von Einwohnerzahl, Schutzgebieten, Industrieanlagen und Kulturstätten.
Risikomanagement, Naturgefahren
Staudamm Kernelement einer Stauanlage im Wasserbau und kommt zum Bau einer Talsperre oder einer Flusssperre bzw. Staustufe zur Ausführung. <i>GBI</i>
Sturmflut Sturmfluten entstehen, wenn starke Winde Wasser von Meeren, Tiedenflüssen oder großen Seen an die Küste oder das Ufer treiben. Infolgedessen steigt der Wasser-stand und das Land wird überflutet. Naturgefahren
Summative Evaluation Die summative Evaluation findet ex-post nach der Programmmplementierung statt. Sie soll einen Gesamtüberblick über Qualität, Wirksamkeit und Effizienz des Programms geben. Wirkung
Sustainable Development Goals (SDG)
Die Sustainable Development Goals / Ziele für Nachhaltige Entwicklung bestehen aus 17 Zielen, die 2015 von den Vereinten Nationen verabschiedet wurden und global als Agenda für eine nach-

haltige Entwicklung dienen. Sie richten sich an Regierungen, die Zivilgesellschaft, Wirtschaft und Wissenschaft.
Verwandt: Agenda 2030
Synonyme: SDG
Transformation
System Ein System ist ein strukturiertes Ganzes, das aus miteinander verbundenen und interagierenden Komponenten besteht. Diese Komponenten arbeiten zusammen, um eine bestimmte Funktion oder ein Ziel zu erfüllen. Systeme können natürlich oder menschlich geschaffen sein und variieren in ihrer Komplexität, z.B. technische Systeme, ökologische Systeme oder soziale Systeme. <i>GBI, KRITIS, Projekt</i>
Systemwissen Beobachtungswissen über den Ist-Zustand eines Systems Wissensmanagement
Teilentsiegelung ist die anteilige Entsiegelung einer Fläche. Nur Teile der gesamten Fläche werden Entsiegelt oder durch permeable Oberflächen ersetzt und somit teilentsiegelt. Teilentsiegelte Bodenbeläge lassen viel bis mäßige Versickerung von Oberflächenabflüssen zu. GBI
test111 test111
Thermische Ausgleichsfunktion Bewertungskategorie des Freiraums. Flächen mit einer thermischen Ausgleichsfunktion sind in der Regel Grün- und Freiflächen, welche besonders nachts Kaltluft produzieren oder durch ihre spezielle Lage Kaltluftströme ermöglichen. Sie tragen somit zur Minderung der Hitzebelastung bei. Naturgefahren
Thermische Belastung

wird anhand des PET-Wertes dargestellt, der das thermische Empfinden in verschiedenen Umgebungsbedingungen beschreibt. Sie kann durch Hitze oder Kälte verursacht werden und wird von

Lufttemperatur, Luftfeuchtigkeit, Windgeschwindigkeit und Sonnenstrahlung beeinflusst. Thermische Belastung hat direkte Auswirkungen auf das körperliche Wohlbefinden (z.B. Hitzestress). Naturgefahren
Transdisziplinäres Arbeiten Ziel ist die Zusammenarbeit von Wissenschaft und Akteur:innen aus der Praxis (Gesellschaft, Wirtschaft, Politik) auf Augenhöhe im Themenfeld Reallabor. Zeichnet sich insbesondere durch die Verknüpfung unterschiedlicher Sichtweisen und Fachdisziplinen der jeweiligen Akteur:innen aus. **Projekt**
Transfer Anwendung und Übertragung von wissenschaftlichem und praktischem Wissen in unterschiedlichen und insbesondere anderen Kontexten Verwandt: Wissenstransfer Wissensmanagement
Transferbeirat Der Transferbeirat besteht zum einen aus Vertreter:innen aus der Region, um die Transformation der Region voranzutreiben und die Zusammenarbeit verschiedener Akteure zu gewährleisten. Zum anderen aus wissenschaftlichen Expert:innen aus der Reallaborpraxis, die das Team bei der praktischen Umsetzung von Projekten in der Region als Teil des Reallabors sowie der Messbarkeit der Ergebnisse beraten. Projekt
Transfermodus 1 Wissens- und Technologietransfer für die Gesellschaft - Adressiert den linearen Transfer von Wissen und Technologie aus der Hochschule in die Gesellschaft. Die Forschungsergebnisse werden für zivilgesellschaftlichen und wirtschaftlichen Nutzen angewandt und verwertet. Der Fokus liegt dabei auf Aktivitäten mit Verwertungs- oder Kommerzialisierungsabsicht. Unterbegriff von: Transfer Wissensmanagement

Transfermodus 2a

Ideen- Wissens- und Technologietransfer mit der und für die Gesellschaft. Hochschulexterne aus mindestens einem gesellschaftlichen Teilsystem werden an einem Teil der Wissenserzeugung beteiligt. Der Fokus liegt dabei auf nutzungsorientierten Aktivitäten.

Unterbegriff von: Transfer, Wissenserzeugung Wissensmanagement
Transfermodus 2b Ideen-, Wissens- und Technologietransfer in der, mit der und für die Gesellschaft. Am gesamten Prozess der Wissenserzeugung werden Hochschulexterne aus verschiedenen gesellschaftlichen Teilsystemen und der organisierten Zivilgesellschaft beteiligt. Der Fokus liegt dabei auf gemeinwohlorientierten Aktivitäten. In Co-Site findet der Transfermodus 2b statt. Unterbegriff von: Transfer Wissensmanagement
Transformation Verstanden als sozial-ökologische Transformation beschreibt der Begriff den tiefgreifenden strukturellen Wandel hin zu einer ressourcenschonenden Lebensweise und einer nachhaltigen Entwick lung. Transformation
Transformation Skills Transformation Skills sind Fähigkeiten, um Veränderungen aktiv zu gestalten. Dazu gehören systemisches Denken und Handeln, Innovationsfähigkeit, emotionale Intelligenz und kollaborative Problemlösung. Diese Kompetenzen ermöglichen es Individuen und Organisationen, sich an neue Herausforderungen anzupassen. Weiterbildung
Transformationsnetzwerk Im Transformationsnetzwerk wirken verschiedene regionale Vetreter:innen aus Kommunen und Kreise, Wirtschaftsförderung, Wirtschaft und weitere Partner:innen der Teilvorhaben mit. Das Transformationsnetzwerk kommt zusammen, um Bedarfe aufzunehmen und fördert den Austausch sowie die (Weiter-)Entwicklung der Region im Sinne der Nachhaltigkeit. Projekt

Transformationswissen

Wissen, wie man ein System vom Ist-Zustand zu eir	em gemeinsam definierten wünschenswerterer
Zustand in der Zukunft bewegen kann.	

Verwandt: Systemwissen

Wissensmanagement

Transformative Wissenschaft

Transformative Wissenschaft bezeichnet einen Forschungsansatz, der darauf abzielt, gesellschaftliche, ökologische und technologische Herausforderungen in wechselseitigen Austauschbezie-

liche, ökologische und technologische Herausforderungen in wechselseitigen Austauschbeziehungen zwischen Wissenschaft, Politik, Wirtschaft und Gesellschaft zu erforschen, um nachhaltige Veränderungen und Innovationen zu initiieren und zu unterstützen.

Transformation

Transformatives Lernen

Transformatives Lernen bewirkt tiefgreifende Veränderungen in Denken und Verhalten. Es führt zu neuen Perspektiven und erweitertem Verständnis, indem bisherige Annahmen und Überzeugungen kritisch hinterfragt werden. Dies fördert eine nachhaltige Entwicklung persönlicher und beruflicher Fähigkeiten und erleichtert die Anpassung an komplexe Herausforderungen.

Weiterbildung, Transformation

Urbane Hitzeinsel (UHI)

beschreibt die überdurchschnittliche Erwärmung von Innenstädten im Vergleich zu ihrem Umland. Besonders nachts kühlen Städte nicht ab, da die dicht bebauten und versiegelten Flächen die tagsüber gespeicherte Hitze in der Nacht wieder abgeben. Zudem verhindern verbaute Luftbahnen, dass kühle Luft aus dem Umland in die Stadt gelangt. Dadurch können Temperaturdifferenzen bis zu 10°C entstehen.

Naturgefahren

Urbane Resilienz

beschreibt die Fähigkeit eines städtischen Systems und seiner Bevölkerung, bei Krisen oder Katastrophen widerstandsfähig zu reagieren. Berücksichtig wird dabei zugleich die Anpassungsfähigkeit und Entwicklung hin zu einer robusten, adaptiven und zukunftsfähigen Stadt.

Transformation

Urbane Retentionsräume

Natürliche oder künstlich geschaffene Retentionsräume im Stadtgebiet die bei Hochwasser und/
oder Starkregen Wassermassen zurückhalten, versickern, verdunsten oder verzögert in die Kanalisa-
tion abgeben. Urbane Retentionsflächen dienen somit sowohl dem Überschwemmungsschutz als
auch der Verbesserung des Stadtklimas.

auch der Verbesserung des Stadtklimas.
Jrbaner Digitaler Zwilling
in Urbaner Digitaler Zwilling ist eine virtuelle Nachbildung einer städtischen Umgebung, welche
Daten aus verschiedenen Quellen nutzt, um das Leben, die Dynamik und bspw. die physikalischen Eigenschaften der Stadt zu simulieren. Anwendungen finden sich in Bereichen wie Verkehrsmanagement, Umweltschutz und Stadtentwicklung.
/erwandt: Digitaler Zwilling
Digitale Technologien
/ektordaten eine Darstellung der Erdobjekte (Datenmodell) durch Punkte, Linien und Polygone. GIS, InfoTool
/erletzlichkeit
iiehe Vulnerabilität
Risikomanagement
/erwundbarkeit iehe Vulnerabilität
Synonyme: Vulnerabilität, Anfälligkeit
Risikomanagement

Virtual Reality

(VR)

Eine computergenerierte virtuelle Umgebung, die die nutzende Person visuell und auditiv mittels VR-Brille erleben kann und in der die reale Welt visuell nicht erfasst werden kann (dt. virtuelle Welt).

XR		

Virtuelle Realität (VR) Siehe Virtual Reality. XR	
Vision Ein Zielbild, welches ein angestrebtes Szenario in der Zukunft beschreibt. <i>Transformation</i>	
VR-Brille Virtual Reality-Brille, ein tragbares Gerät (HMD), welches wie eine Brille oder wird und den Benutzer vollständig in eine computergenerierte, dreidimensic bung eintauchen lässt. Diese Brillen besitzen integrierte Bildschirme und Ser gungen zu verfolgen und eine immersive visuelle und oft auch auditive Erfal XR	onale virtuelle Umge- nsoren, um Kopfbewe-
VR-Laufband Ein VR-Laufband, auch Omnidirectional Treadmill (dt. omnidirektionales Lauspezielles Gerät, das es Nutzer:innen ermöglicht, sich in alle Richtungen inne bewegen, ohne physisch den Ort zu wechseln, und erhöht so die Immersion XR	erhalb einer VR-Welt zu
VUCA (VUCA) VUCA setzt sich aus <i>volatility</i> (Unbeständigkeit), <i>uncertainty</i> (Unsicherheit), <i>c</i> tät) und <i>ambiguity</i> (Mehrdeutigkeit) zusammen und beschreibt die Herausfoniken, welchen Organisationen oder Personen in der Arbeitswelt begegnen Verwandt: Ambiguität Projekt	orderungen und Dyma

Vulnerabilität

Der Begriff beschreibt den Zustand der Verletzbarkeit oder Verwundbarkeit und ist das Maß für die anzunehmende Schadensanfälligkeit eines Schutzgutes in Bezug auf ein bestimmtes (Schadens-

Vulnerabilität wird durch ökonomische, ökologische und soziale Faktoren bestimmt.	
Synonyme: Anfälligkeit	
Risikomanagement	
Vulnerable Personengruppen	
Personengruppen, die als besonders vulnerabel gelten sind zum Beispiel: Kinder, Jugendliche,	
flüchtende und geflüchtete Menschen, Frauen, ältere Menschen, Menschen mit Behinderung,	
LGBTQIA+-Personen, sowie religiöse Minderheiten. Sie leiden besonders unter Krisen und ihren	
Folgen und sind diesen in vielen Fällen in höherem Maße ausgesetzt.	
Risikomanagement	
Wassersensible Stadt	
Stadt, die Wasser nachhaltig nutzt, Überflutungsrisiken minimiert und die Wasserqualität urbane	
Wasserkörper verbessert. Integration von natürlichen Wasserzyklen und nachhaltiges Manageme	nt
von Wasserressourcen. Hauptmerkmale sind Regenwasserbewirtschaftung, grüne Infrastruktur, Flussrenaturierung, wassereffiziente Gebäude, Sensibilisierung der Bevölkerung und integriertes	
Wassermanagement.	
Einfache Beschreibung: Ziel einer wassersensiblen Stadt ist es, Wasser nachhaltig zu nutzen,	
Überflutungsrisiken zu minimieren und die Wasserqualität zu verbessern.	
Verwandt: Renaturierung, Schwammstadt, Grüne Infrastruktur, Regenwasserbewirtschaftung	
GBI	
Web Feature Service	
(WFS)	
Ein standardisierter OGC-Geodienst für die Bereitstellung von geografischen Informationen im	
Vektorformat über das Internet.	
GIS, InfoTool	
Web Map Service	
(WMS)	
Ein standardisierter OGC-Geodienst für die Bereitstellung georeferenzierter Kartenbilder über das	;
Internet.	
InfoTool, GIS	

) Ereignis. Sie bezieht sich auf Personen, Objekte, Infrastruktursysteme oder räumliche Bereiche.

Weiterbildung ist ein Sammelbegriff für allgemeine, betriebliche, berufliche sowie politische Weiterbildung. Sie zielt darauf ab, Wissen und Fähigkeiten zu erweitern, sowohl für persönliche Entwicklung als auch zur Erfüllung beruflicher Anforderungen, und trägt zur Förderung der gesellschaftlichen Teilhabe und Erreichung organisationaler Ziele bei. Weiterbildung
Wirkung Wirkung beschreibt Veränderungen und Ergebnisse, die als Resultat von Projektaktivitäten entstehen. Es können positive und negative sowie intendierte und unintendierte Wirkungen unterschieden werden. Wirkung
Wirkungsanalyse Wirkungsanalyse stellt Evaluation bezogen auf die Gesamtheit eines Projekts dar. Sie umfasst die Entwicklung von Wirkungslogiken sowie die Planung, Beschreibung und Bewertung von Auswirkungen und Wechselwirkungen des Projekts auf relevante Faktoren und Stakeholder. Wirkung
Wirkungsmodell Ein Wirkungsmodell ist eine systematische, visuelle Darstellung die beschreibt welche Veränderungen und Ergebnissen durch das Projekt erzielt werden sollen und wie diese Zielreichung umgesetzt werden soll. Dabei werden Ressourcen, Rahmenbedingungen, Maßnahmen sowie direkte und indirekte Wirkungen berücksichtigt und miteinander in Verbindung gesetzt. Sie basieren oft auf dem IOOI-Modell von Phineo. Wirkung
Wirkungsorientierung Wirkungsorientierung bedeutet, dass ein Projekt darauf abzielt, gesellschaftliche Veränderungen zu bewirken, und dass es dementsprechend geplant und umgesetzt wird. Der Begriff wird im Feld der Wirkungsanalyse u.a. gerne genutzt, um zu verdeutlichen, dass Wirkung nicht wirklich messbar ist. <i>Wirkung</i>

Wissenschaftliche Weiterbildung

Weiterbildung

Wissenschaftliche Weiterbildung sind Maßnahmen, die auf wissenschaftlichen Erkenntnissen und Methoden basieren, für Personen mit berufsqualifizierendem oder akademischem Abschluss. Die

Lernformate sind handlungsorientiert und zielen darauf ab, Fach- und Handlungskompetenzen in spezifischen Bereichen zu vertiefen oder zu erweitern. Weiterbildung
Wissenschaftskommunikation (WissKomm)
Umfasst alle Aspekte der Kommunikation über wissenschaftliches Arbeiten, wissenschaftliche Aktivitäten und wissenschaftliche Ergebnisse, sowohl innerhalb der Wissenschaft als auch (im besonderen) darüber hinaus. Kommunikation
Wissenserzeugung
Prozess, mit dem neues Wissen generiert wird. Wissen kann auf verschiedenen Wegen erzeugt werden, zum Beispiel durch Forschung und Austausch. Im Kontext von Reallaborarbeit bedeutet dies u.a. die Verknüpfung von vorhandenem Wissen verschiedener relevanter Stakeholder und die dadurch erzeugte ganzheitliche Erweiterung, Ergänzung und Entwicklung neuen Wissens. Wissensmanagement
Wissenstransfer Übertragung von (wissenschaftlichem) Wissen an weitere Personen oder Institutionen in Gesellschaft, Wirtschaft oder Politik Wissensmanagement
Workshop Ein methodisch strukturiertes Setting der Zusammenarbeit mehrerer Personen, welches zumeist von einer Moderation geleitet wird. Ziele sind die begleitete Wissensaneignung oder gemeinsame Produktion von Inhalten sowie Prototypen. Partizipation
Zeitliche Auflösung Zeitliche Abstände zwischen einzelnen Aufnahmen des gleichen Gebietes in einem Datensatz. Daten

Zeitreihe Zeitlich geordnete Messdaten, die regelmäßig erfasst wurden. Daten
Zielgruppe Eine Person oder Gruppe von Menschen, die durch die Maßnahmen des Reallabors angesprocher werden sollen.
Verwandt: Dialoggruppe Projekt
Zielwissen Gemeinsam generiertes Wissen über gewünschte zukünftige Entwicklungen eines Systems Wissensmanagement
Zivilschutz Beschreibt den Schutz der Bevölkerung durch nicht militärische Maßnahmen im Falle von militärischen Auseinandersetzungen. Zum Zivilschutz gehören insbesondere der Selbstschutz, die Warnung der Bevölkerung, der Schutzbau, die Aufenthaltsregelung, der Katastrophenschutz nach Maßgabe des § 11 ZSKG, Maßnahmen zum Schutz der Gesundheit, Maßnahmen zum Schutz von Kulturgut. Verwandt: Bevölkerungsschutz <i>Risikomanagment</i>

IPCC Begriffe

ablation The process of removing snow, ice, or rock from a glacier or other frozen body tion, or calving.	/ by melting, sublima
abrupt change A significant change that happens in a relatively short time period, often affect gical systems suddenly and dramatically.	cting climate or ecolo
abrupt climate change A rapid and significant change in the climate system that occurs over a short process of the stantial impacts on natural and human systems.	period, causing sub-
acceptability of policy or system change The degree to which proposed policies or changes in systems are considered ble by stakeholders and the general public.	favorable or accepta-
access to modern energy services The ability to obtain modern energy services, including electricity and clean c which are essential for economic development and well-being.	cooking facilities,
acclimatisation The physiological or behavioral adjustments that organisms make in response environment to maintain performance across a range of environmental condi	_

accumulation The accumulation of substances such as snow, ice, or sediment in a natural environment.
active layer The layer of ground that is subject to annual freeze-thaw cycles in permafrost regions, affecting soi structure and ecosystem processes.
acute food insecurity A condition where food availability is severely reduced, leading to an urgent need for food aid to prevent hunger and malnutrition.
adaptation The process of adjusting to actual or expected climate and its effects, in order to moderate harm or exploit beneficial opportunities.
adaptation behaviour The ways in which individuals or communities change their behaviors to cope with or benefit from climate impacts.
adaptation deficit The gap between the level of adaptation that is currently achieved and the level that is needed to avert or minimize the negative impacts of climate change.
adaptation fund A fund established to finance adaptation projects and programs in developing countries that are particularly vulnerable to the adverse effects of climate change.
adaptation gap The difference between the current level of adaptation and the level required to adequately address the impacts of climate change.

adaptation limits

The limitations that prevent effective adaptation, which may be physical, economic, social, or technological.

adaptation needs The specific requirements nerabilities and enhancing	s that must be met for effective adaptation to take ng resilience.	place, addressing vul-
adaptation opportu The potential benefits or	anity opportunities that arise from taking action to adap	ot to climate change.
adaptation options The various actions or stransilience.	ategies available to mitigate the impacts of climate	e change and enhance
adaptation pathwa The sequences of actions climatic conditions.	ys or strategies that can be implemented over time t	o adapt to changing
adaptive capacity The capacity of individua of opportunities, or response	ls, communities, or systems to adjust to potential cond to consequences.	damage, take advantage
adaptive governance A governance approach tevels of government and	hat emphasizes flexibility, learning, and collaborat	ion across different
adaptive managem A management strategy tainties.	ent that allows for learning and adaptation in response	e to changes and uncer-
added value The additional benefits oves.	r improvements that a project or policy brings bey	ond its primary objecti-

additionality The concept that a project or without it.	rintervention should provide benefits that wou	uld not have occurred
adjustments The changes or modifications outcomes.	s made to policies, practices, or systems to imp	rove performance or
advection The horizontal movement of	air or water due to atmospheric or oceanic cor	nditions.
adverse side-effect An unintended negative considifferent benefit.	sequence that arises from a policy or action int	ended to produce a
aerosol Tiny solid or liquid particles s health.	suspended in the atmosphere, which can affect	climate and human
aerosol effective radia The net change in the energy	Itive forcing y balance of the Earth's atmosphere due to aero	osols, affecting climate.
aerosol optical depth A measure of the extent to w	rhich aerosols prevent sunlight from reaching t	he Earth's surface.
aerosol–cloud interact The interactions between aer climate.	tion rosols and cloud formation, which can influenc	e weather patterns and
aerosol-radiation inte The interactions between aer bing sunlight.	eraction rosols and radiation, influencing climate through	gh scattering or absor-

afforestation The establishment of forests in areas where there were no previous tree cover, as a method of carbon sequestration and environmental restoration.
agreement A formal arrangement between two or more parties, often to achieve mutual goals or resolve issues.
agricultural and ecological drought Drought conditions that affect agricultural productivity and ecological health, leading to food and water shortages.
agriculture forestry and other land use Land use practices involving agriculture, forestry, and other land uses that can impact the environment and climate.
agroecology A sustainable farming approach that integrates ecological principles with agricultural practices.
agroforestry A land management practice that integrates trees and shrubs into agricultural systems for environmental and economic benefits.
air mass A large body of air with uniform temperature and humidity characteristics.
air pollution The presence of pollutants in the air, which can harm human health and the environment.
airborne fraction The proportion of emitted CO2 that remains in the atmosphere rather than being absorbed by oceans or land.

albedo The reflectivity of a surface, with high albedo surfaces reflecting more sunlight and low albedo surfaces absorbing more.
alkalinity The capacity of a solution to neutralize acids, often used to measure the buffering capacity of seawater against ocean acidification.
altimetry The measurement of changes in surface height, often used in monitoring sea level and ice sheet dynamics.
annular modes Climate patterns characterized by large-scale high-pressure systems that influence weather patterns over weeks to months.
anomaly A deviation from the long-term average value of a climate variable, such as temperature or precipitation.
antarctic ice sheet A massive ice sheet covering Antarctica, containing the majority of the Earth's fresh water.
anthropocene A proposed geological epoch that highlights the significant global impact of human activities on the Earth's geology and ecosystems.
anthropogenic Originating from human activity, such as emissions from fossil fuel combustion, deforestation, and industrial processes.

anthropogenic emissions

Emissions of greenhouse gases or other pollutants that result from human activities.

anthropogenic removal The process by which human a	s ctivities remove greenhouse gases from the	atmosphere, often th-
rough land use practices like re		'
anthropogenic subsider The gradual sinking of land due	nce e to human activities such as groundwater e	xtraction or oil drilling.
apparent hydrological s	ensitivity	
The apparent sensitivity of a hy conditions.	drological system to changes in climate or o	ther environmental
arctic oscillation		
A climate pattern characterized Arctic, affecting global weather	d by shifting atmospheric pressure and temp r.	erature patterns in the
arid zone		
A climate zone characterized by desert-like conditions.	y very low precipitation and high evaporatio	n rates, leading to
aridity		
A measure of the dryness of an	environment, often used to assess drought	conditions.
artificial ocean upwellin	ng	
A geoengineering technique the to stimulate marine productivite ————————————————————————————————————	nat involves bringing nutrient-rich deep ocea ty and carbon sequestration.	an water to the surface
assets		
The valuable resources, capabil an individual, community, or or	lities, and attributes that contribute to the wrganization.	ealth and well-being of

atlantic meridional mode
A climate pattern characterized by temperature and precipitation variations in the Atlantic Ocean, affecting weather and climate globally.
atlantic meridional overturning circulation A large-scale ocean circulation system in the Atlantic Ocean that plays a key role in regulating climate.
atlantic multi-decadal oscillation A climate pattern in the Atlantic Ocean that oscillates over several decades, influencing global weather patterns.
atlantic multi-decadal variability Long-term variations in the climate of the Atlantic Ocean that affect global weather and climate.
atlantic zonal mode A climate pattern in the Atlantic Ocean characterized by variations in sea surface temperature and atmospheric pressure.
atmosphere The layer of gases surrounding the Earth, essential for weather, climate, and supporting life.
atmospheric boundary layer The lowest part of the atmosphere, where most weather phenomena occur, influenced by the Earth's surface.
atmospheric rivers Narrow regions in the atmosphere that transport large amounts of water vapor from the tropics to higher latitudes, influencing precipitation patterns.

attribution

The process of establishing the causes of observed changes or events, often in the context of climate science.

A monsoon system affecting A in wind and precipitation patter	ustralia and surrounding regions, characteriz	red by seasonal changes
autonomous adaptation Adaptation that occurs natural evolutionary processes.	n ly within systems without directed intervent	ion, often as a result of
autotrophic respiration The respiration by autotrophs photosynthesis.	(plants and algae) that releases CO2 into the	atmosphere during
avalanche A mass of snow, ice, and debris conditions or human activity.	s that rapidly descends a mountainside, ofter	n triggered by weather
avoid The action of preventing or mi climate change.	nimizing undesirable outcomes, such as envi	ironmental damage or
basal lubrication The reduction of friction at the loss.	base of a glacier, which can enhance its flow	and contribute to ice
baseline period A period used as a reference period	oint for comparison with current conditions,	often in climate studies.
baseline scenario A hypothetical scenario used a tions.	s a benchmark to assess the impact of poten	tial changes or interven

baseline/reference		
The reference point or period ag sis.	ainst which changes are measured, provid	ing a baseline for analy-
behavioural change Changes in individual or collectitors.	ve behavior in response to environmental,	social, or economic fac-
benthic Organisms living on or in the sea	a floor, often used to indicate the health of	marine ecosystems.
benthos		
beta diversity The variety of species within a re	egion, reflecting the ecological health and I	resilience of an area.
biochar A charcoal-like substance produ questration.	ced from biomass, used as a soil amendme	nt and for carbon se-
biochemical oxygen dem The amount of oxygen required lity.	nand to decompose organic material in water, an	n indicator of water qua
biodiversity The variety of life forms within a sity.	n ecosystem, encompassing genetic, speci	es, and ecosystem diver
biodiversity hotspots Regions with exceptionally high	levels of biodiversity that are under threat	from human activities.

bioenergy Energy derived from biological sources, such as plants, which can be used as a renewable fuel
bioenergy with carbon dioxide capture and storage A technology that combines bioenergy production with the capture and storage of carbon dioxide emissions.
bioethanol A type of biofuel produced from fermented biomass, often used as an alternative to gasoline.
biofuel Fuel derived from biological materials, offering a renewable alternative to fossil fuels
biogenic carbon emissions Carbon emissions resulting from biological processes, such as plant respiration and decomposition.
biogenic volatile organic compounds Organic compounds released by plants that can contribute to atmospheric chemistry and pollution.
biogeophysical potential The potential of biological and physical processes to influence the climate and environment.
biological pump The process by which marine organisms, such as phytoplankton, transport carbon from the surface to the deep ocean.
biomass The total mass of living organisms in a given area, often used as a measure of ecosystem productivity.

biomes Large naturally occurring communities of flora and fauna occupying a major habitat.
biosphere The global ecological system integrating all living beings and their relationships with the atmosphere, hydrosphere, and geosphere.
bipolar seesaw A climate pattern characterized by opposing temperature changes in the Northern and Southern Hemispheres.
black carbon Fine particulate matter emitted from incomplete combustion of carbon-based fuels, affecting climate and health.
blocking Atmospheric conditions where high-pressure systems block the progression of weather patterns, leading to prolonged extreme events.
blue carbon Carbon stored in coastal and marine ecosystems, such as mangroves and seagrasses, contributing to climate mitigation.
blue infrastructure Infrastructure that incorporates natural processes and ecosystems to provide services such as water management and climate resilience.
brewer–dobson circulation A large-scale atmospheric circulation pattern that influences the distribution of ozone and other trace gases.
burden biennial update report

business as usual A scenario where current trends continue without significant change or intervention, often used in planning and forecasting.
calcification The process by which marine organisms, such as corals and mollusks, build calcium carbonate structures.
calving The process where chunks of ice break off from the edge of a glacier or ice shelf, forming icebergs.
canopy temperature The temperature within the layer formed by the leaves and branches of trees or plants, which can differ from air temperature due to shading and transpiration effects.
capacity building The process of developing skills, knowledge, and abilities within individuals, organizations, or soci ties to effectively address challenges and opportunities.
carbon budget The balance of carbon dioxide emissions and removals (e.g., through sinks like forests) in a specified region or system.
carbon cycle The natural process by which carbon is exchanged between the atmosphere, oceans, soil, and living organisms.
carbon dioxide A greenhouse gas that is a primary contributor to global warming, emitted through human activities such as fossil fuel combustion and deforestation.

carbon dioxide fertilisation The stimulation of plant growth due to increased atmospheric carbon dioxide levels.	
carbon dioxide capture and storage Technologies and methods for capturing carbon dioxide emissions from industrial propower plants and storing it underground to prevent its release into the atmosphere.	ocesses or
carbon dioxide capture and utilisation Technologies and processes that capture carbon dioxide emissions and convert them products or chemicals.	into useful
carbon dioxide removal Techniques and approaches to remove carbon dioxide from the atmosphere, such as to forestation or direct air capture technologies.	through af-
carbon feedback The process where changes in the carbon cycle, such as carbon dioxide release or uptoclimate variables like temperature and precipitation.	ake, affect
carbon footprint The amount of greenhouse gases, particularly carbon dioxide, emitted directly or indi man activities.	rectly by hu-
Carbon intensity The amount of carbon dioxide emitted per unit of economic output or activity.	
carbon neutrality Achieving a balance between emitted carbon dioxide and carbon dioxide removed from sphere, often through carbon offsets or carbon removal technologies.	om the atmo-

carbon price

The cost imposed on carbon emissions to incentivize reductions and fund climate mitigation efforts.

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carbon sequestration	on	
•	and storing atmospheric carbon dioxide to mitigat	e global warming and
carbon sink Natural or artificial reserv	oirs that absorb and store carbon dioxide from the	atmosphere.
carbon stock The amount of carbon sto	ored in vegetation, soil, oceans, and geological forr	nations, which can in-
fluence atmospheric carb	on dioxide levels.	
carbonaceous aeros Tiny airborne particles cosolar radiation.	sol mposed of carbon, which can influence climate by	absorbing or reflecting
carbonate pump The process by which maring carbon in deep ocean	rine organisms use carbonate ions to form calcium n layers.	carbonate, sequeste-
carbon–climate fee The interactions between can amplify or dampen cl	carbon dioxide levels in the atmosphere and clim	ate processes, which
cascading impacts The wide-ranging impact	s triggered by a single event or change, affecting i	nterconnected systems.
catchment The area of land that colle	ects and channels rainfall or snowmelt into streams	s, rivers, and lakes.

cenozoic era The geological era spanning fron nance of mammals and birds.	om 66 million years ago to the present, chara	acterized by the domi-
central pacific el ni%C3 ^o A type of El Niño event centere patterns.	%B1o ed in the central Pacific Ocean, which can infl	uence global weather
chaotic Describes a system that is high cult.	ly sensitive to initial conditions, making long	ı-term predictions diffi-
charcoal A form of carbon formed from and filtration.	the incomplete combustion of biomass, used	d in soil amendments
chlorofluorocarbons Chemical compounds once use ozone layer.	ed widely as refrigerants and propellants, kno	own for depleting the
choice architecture The design of environments to cularly in sustainability.	influence people's behavior towards more b	eneficial choices, parti-
chronology The arrangement of events or o	dates in the order of their occurrence.	
circular economy An economic system designed production and consumption.	to minimize waste and maximize resources,	aiming for sustainable

cirrus cloud thinning

The process of reducing cirrus cloud cover to counteract global warming by increasing Earth's albedo.

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cities Urban areas characterized	by dense populations, infrastructure, and econor	mic activities.
citizen science Scientific research conduct in collaboration with profe	ed, in whole or in part, by amateur or non-professional scientists.	ssional scientists, often
city region A geographical area consis social, and environmental t	ting of a core city and surrounding municipalitie	s linked by economic,
clathrate Ice-like compounds compoin permafrost and deep occ	osed of gas molecules trapped within a lattice of ean sediments.	water molecules, found
	equation/relationship emperature of a phase change to the change in v	apor pressure with tem-
climate The long-term average of vion, and wind patterns.	veather patterns in a particular region, including	temperature, precipita-
climate change Changes in global climate process the form of greenhouse ga	patterns attributed directly or indirectly to huma s emissions.	n activity, particularly ir
climate change comr A commitment to future er trajectories.	nitment missions reductions or climate actions, based on	current policies and

climate extreme Extreme weather or climate events, such as heatwaves, floods, or hurricanes, that significantly de-
viate from historical norms.
climate feedback The response of the climate system to changes or disturbances, which can amplify or mitigate the initial change.
climate feedback parameter A parameter describing the strength and direction of feedback loops within the climate system.
climate finance Financial mechanisms and resources mobilized to address climate change mitigation, adaptation, and resilience.
climate forecast Predictions or projections of future climate conditions based on models and data
climate governance The governance structures and processes that influence climate policy, decisions, and actions at various levels.
climate index A measure or indicator used to assess climate conditions or trends over time.
climate indicator Data, knowledge, and assessments related to past, current, and future climate conditions and impacts.
climate information

climate justice The concept of addressing climate change impacts and solutions in terms of fairness, equity, and justice.
climate literacy The understanding and knowledge of climate science, its impacts, and the actions needed to address them.
climate metrics Metrics and indicators used to measure and evaluate climate-related factors, impacts, and responses.
climate model Mathematical models used to simulate and predict climate behavior based on physical, chemical, and biological processes.
climate pattern Patterns or recurring sequences in climate variables such as temperature, precipitation, and atmospheric circulation.
climate prediction The process of predicting future climate conditions based on current knowledge, models, and scenarios.
climate projection The projection of future climate conditions based on scenarios of greenhouse gas emissions and other factors.
climate refugium A geographic area that remains relatively stable and conducive to species survival during periods of climate change.

limate resilient development Pevelopment pathways that integrate climate change adaptation and resilience into planning and olicy.
limate resilient development pathways trategies and actions aimed at ensuring development can withstand and adapt to climate change npacts.
limate response he overall response of the climate system to changes in greenhouse gas concentrations, emission r other factors.
limate sensitivity he sensitivity of the climate system to changes or disturbances, measured by how much the system responds to a given forcing.
limate services ervices that provide climate information, predictions, and assessments to support decision- naking and planning.
limate simulation ensemble collection of climate model simulations used to account for uncertainties and variability in future limate projections.
limate system he interconnected components and processes of the Earth's atmosphere, oceans, land surfaces, and ice masses.
limate threshold critical threshold beyond which abrupt or significant changes in the climate system are expected

climate variability

The variability in climate conditions over time and space, encompassing short-term fluctuations and long-term trends.

climate velocity The rate at which climate es distributions.	zones shift in response to climate change, affectir	ng ecosystems and speci
climate-carbon cyc The reciprocal interaction other's dynamics.	le feedback ns between carbon dioxide levels and climate proc	esses, influencing each
climate-resilient pa Pathways and strategies	thways designed to enhance resilience and adaptation to	climate change impacts.
climate-smart agric Agricultural practices tha emissions and adapting t	t aim to sustainably increase productivity while red	ducing greenhouse gas
climatic driver Factors or phenomena th or solar radiation.	at drive changes in climate conditions, such as gre	enhouse gas emissions
climatic impact-driv Factors or phenomena th climate system.	ver at are influenced by climate change and in turn af	fect other aspects of the
cloud condensation Microscopic particles upo ties and climate.	n nuclei on which water vapor condenses to form clouds, in	fluencing cloud proper-
cloud feedback The feedback loop in whi altering the Earth's radiat	ch clouds can either amplify or dampen the effect ion balance.	s of climate change by

community-based adaptation

Adaptation strategies that involve local communities in planning and decision-making processes to reduce vulnerability to climate change impacts.

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compatible emissio Emissions that are compa and adaptation efforts.	ns Itible with a specific global temperature goal, cons	sidering both mitigation
compound risks Risks resulting from the s exacerbating impacts.	imultaneous occurrence of multiple climate or we	ather-related events,
compound weather Events where multiple we conditions.	r/climate events eather or climate phenomena interact to produce	more severe or unusual
concentrations scer Scenarios describing futu tances, used in climate m	re concentrations of greenhouse gases and other	radiatively active subs-
•	arties re countries that are parties to the United Nations tiate and implement agreements.	Framework Convention
confidence The level of certainty or rements.	eliability associated with climate projections, obse	rvations, or assess-
conservation agricu Agricultural practices tha climate resilience.	Ilture t conserve soil, water, and biodiversity while enha	ncing productivity and
constant compositions to prevent further clin	e the composition of the atmosphere by reducing	greenhouse gas emissi-

constant emissions A commitment to maintaincreases.	commitment ain current levels of greenhouse gas emissions inde	efinitely, without further
consumption-base Emissions associated wit stically and international	h the consumption of goods and services, includin	g those produced dome
convection The transfer of heat throu and temperature.	ugh the movement of fluids (liquids or gases) due	to differences in density
coping capacity The ability of individuals, changes.	communities, or systems to cope with and adapt	to adverse conditions or
coral bleaching The phenomenon where temperatures, leading to	coral colonies expel symbiotic algae due to stress their whitening.	ors like increased sea
coral reef Diverse ecosystems built nerable to climate chang	from calcium carbonate secreted by coral polyps, e impacts.	which are highly vul-
	otopes duced by cosmic rays interacting with the atmosp al and archaeological materials.	here or other substances
cost-benefit analys An economic analysis eva	sis aluating the costs and benefits of a decision, proje	ct, or policy related to

cost-effectiveness analysis An economic analysis evaluating the efficiency of achieving objectives or outcomes in relation to
costs incurred, particularly in addressing climate change.
coupled model intercomparison project An international effort to coordinate and compare climate model simulations to improve understanding and predictions of climate change.
cryosphere The regions of Earth where water exists in solid form, including glaciers, ice caps, and permafrost.
cultural impacts The impacts of climate change on cultural heritage, practices, beliefs, and traditions.
cumulative emissions The total amount of greenhouse gases emitted over time, which contributes to global climate change.
dansgaard-oeschger events Abrupt climate events characterized by rapid temperature changes during the last glacial period.
data assimilation The process of incorporating observational data into numerical models to improve predictions and understanding.
dead zones Oxygen-depleted zones in oceans, caused by excessive nutrient pollution, leading to marine life depletion.
decadal predictability The predictability of climate variations and changes over a decade-long period.

decadal prediction Predictions of climate conditions ov ———————————————————————————————————	ver a decade-long period.	
decadal variability Variations in climate patterns occur	ring over a decade-long period.	
decarbonisation The process of reducing the carbon	intensity of energy systems or economi	ies.
decent living standard A standard of living that ensures ba	sic human needs are met sustainably ar	nd equitably.
decoupling The separation of economic growth pollution.	from environmental impact, aiming to	reduce resource use and
deep uncertainty Uncertainty that cannot be fully cha	aracterized, understood, or quantified.	
deforestation The clearing of forests for agricultur carbon dioxide emissions.	re, urban development, or logging, lead	ing to habitat loss and
deglacial or deglaciation or The process of ice sheets or glaciers bal warming.	glacial termination melting, contributing to rising sea leve	ls during periods of glo-
deliberate transformations Planned and intentional changes or	r shifts in societal, economic, or environ	mental systems.

deliberative governance A form of governance that emphasizes dialogue, engagement, and participation in decision-making processes.
demand- and supply-side measures Policies or measures targeting both consumer behavior and production methods to reduce energy consumption and emissions.
demand-side measures Policies or measures targeting consumer behavior to reduce energy consumption and emissions.
desertification The degradation of land in arid, semi-arid, and dry sub-humid areas due to various factors including climate change.
detection The process of identifying changes in climate variables over time.
detection and attribution The process of identifying changes in climate variables and attributing these changes to specific causes.
developed/developing countries Categories based on economic development levels and income per capita, often used in global economic and climate discussions.
development pathways Trajectories or strategies for achieving development goals while considering sustainability and climate impacts.
diatoms Microscopic algae that play a crucial role in aquatic ecosystems and carbon cycling.

diet The types and quantities of food consumed by individuals or populations.
dimensions of integration The integration of different aspects or components into a unified whole, particularly in complex systems.
direct air capture The process of capturing carbon dioxide directly from the atmosphere and storing it, aiming to reduce greenhouse gas levels.
direct air carbon dioxide capture and storage The process of capturing carbon dioxide from the atmosphere and storing it underground to mitigate climate change.
direct and indirect services Services that have a direct impact on human well-being and quality of life.
direct emissions Greenhouse gas emissions released directly into the atmosphere from sources like industrial processes and transportation.
disaster A sudden, extreme event causing significant damage or loss, often due to natural hazards.
disaster management The process of preparing for, responding to, and recovering from disasters to minimize their impacts.
disaster risk The potential adverse effects of hazards on vulnerable elements, including people, property, infrastructure, and ecosystems.

isaster risk management rategies and actions to manage disaster risks, aiming to reduce vulnerabilities and enhance resonce.	sili
isaster risk reduction ong-term reduction of disaster risks through policies, strategies, and actions.	
ischarge se volume of water flowing through a river or stream at a given point.	
i scounting be practice of adjusting future costs and benefits to reflect their present value, often used in eco omic assessments.	0-
isplacement e evaluation of potential impacts, positive or negative, of a project or policy.	
isruptive innovation novations that significantly alter existing markets or industries.	
issolved inorganic carbon arbon arbon arbon dioxide dissolved in seawater as bicarbonate and carbonate ions, affecting ocean acidity and marine life.	
i stributive equity irness in the distribution of resources, benefits, and costs among different groups or individual	s.
iurnal temperature range se difference between the highest and lowest temperatures recorded in a day.	

dobson unit

A unit measuring the thickness of the ozone layer, used in atmospheric and climate research.

downscaling The process of generating mate models.	g detailed climate information at a local or regiona	l scale from global cli-
drainage The natural or artificial re	moval of surface water from an area, affecting hyd	rology and ecosystems.
driver Factors or phenomena th	at drive changes in environmental or climatic conc	litions.
drought A prolonged period of ab stress.	normally low precipitation leading to water shorta	ges and environmental
dynamic global veg Models that simulate the and climate.	etation model dynamics of vegetation and its interactions with the	he atmosphere, soil,
dynamical system A system whose state evo	olves over time according to established rules and eliction.	equations, used in cli-
early eocene climat A warm period during the reduced polar ice.	ic optimum e early Eocene epoch, characterized by elevated glo	obal temperatures and
early warning syste Systems designed to dete	ms ect and provide early warnings for impending natu	ral hazards or disasters.

earth system feedbacks

Interactions within Earth's climate system that can amplify or dampen climate change impacts.

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earth system model Models that simulate interstudy climate dynamics.	ractions between Earth's atmosphere, oceans, land	d, and biosphere to
· · · · · · · · · · · · · · · · · · ·	of intermediate complexity odels that balance complexity and computationa	l feasibility.
earth system sensiti Earth's sensitivity to change	vity ges in greenhouse gas concentrations, influencing	ı climate response.
earth%E2%80%99s The balance between incoback into space.	energy budget oming solar radiation absorbed by Earth and outgo	oing radiation emitted
earth's energy flows The pathways and transfel	rs of energy within Earth's atmosphere, oceans, ar	nd surface.
earth's energy imba The disparity between inco back into space.	lance oming solar radiation absorbed by Earth and outo	going radiation emitted
earth's radiative res Earth's response to change	ponse es in radiative forcing, affecting temperature and	climate.
east asian monsoon The seasonal wind pattern mate.	n affecting East Asia, bringing heavy rainfall and in	ofluencing regional cli-

eastern boundary upwelling systems

Oceanic systems that bring nutrient-rich waters to the surface along coastal areas, supporting marine ecosystems.

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eastern pacific el nig A climate phenomenon in	%C3%B1o the Pacific Ocean, characterized by warmer water	rs in the eastern Pacific
economic potential The potential economic be adaptation efforts.	enefits or opportunities associated with climate cl	hange mitigation and
ecosystem A community of living org	anisms and their physical environment interacting	g as an ecological unit.
ecosystem health The overall condition and and functions.	resilience of ecosystems, indicating their ability to	o sustain biodiversity
ecosystem services The benefits humans deriv	ve from ecosystems, including provisioning, regula	ating, cultural, and sup
ecosystem-based ad Adaptation strategies that vulnerability to climate ch	integrate ecosystem services and biodiversity co	nservation to reduce
effective equilibrium The equilibrium climate se	n climate sensitivity ensitivity considering the effects of feedback mecl	nanisms over time.
	orcing due to aerosol–cloud interaction de balance due to interactions between aerosols a	
	orcing due to aerosol–radiation interactions between aerosols a	

Ekman transport The horizontal transport of ocean water by wind, influencing marine ecosystems and climate paterns.
el niño–southern oscillation A coupled ocean-atmosphere phenomenon influencing global weather patterns.
electromagnetic spectrum The distribution of electromagnetic radiation across a range of wavelengths, including visible light and radio waves.
elevation-dependent warming The phenomenon where higher elevations warm faster than lower elevations due to climate change.
embodied %5Bemissions Emissions associated with the production and transport of goods and services.
emergence The appearance of new properties or behaviors in a complex system that emerge from interactions among its components.
emergent constraint A limiting factor or prediction used to constrain uncertainty in climate models or projections.
emission and socio-economic scenario ensemble A collection of scenarios or projections describing future greenhouse gas emissions and socio-economic developments.
emission factor/emissions intensity The amount of greenhouse gas emissions per unit of economic activity or product output.

energy balance model

A model that calculates energy exchanges within Earth's climate system to study energy flows and feedbacks.

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energy budget The quantitative representem.	ntation of energy transfers and transformations wi	thin Earth's climate sys-
energy efficiency The efficient use of energ and waste.	y to achieve desired outcomes or services, reducir	ng energy consumption
energy poverty Lack of access to adequat	re and reliable energy services, affecting quality of	life and development.
energy security Measures ensuring the avneeds.	vailability and reliability of energy sources and serv	vices to meet societal
energy services Services and benefits der	ived from energy production, distribution, and co	nsumption.
energy system The infrastructure, technology sumption of energy.	ologies, and practices involved in the production, o	distribution, and con-
enhanced weatheri A geoengineering technic dioxide from the atmosph	que involving the accelerated weathering of mine	rals to remove carbon
ensemble A group of simulations or tions.	models used to account for uncertainties and var	iability in climate predic

enteric fermentation The fermentation process in livestock digestive systems producing methane emissions.
equality Fairness and impartiality in the distribution of resources, opportunities, and outcomes among individuals or groups.
equilibrium and transient climate experiment The response of the climate system to sustained greenhouse gas concentrations over centuries or millennia.
equilibrium climate sensitivity The sensitivity of Earth's climate to changes in atmospheric carbon dioxide levels.
equilibrium line The altitude at which snow accumulation equals melting in a glacier or ice sheet.
equity Fairness and justice in the distribution of benefits and burdens related to climate change and mitigation efforts.
equivalent carbon dioxide emission A standardized measure expressing the global warming potential of a greenhouse gas relative to carbon dioxide.
ethics The moral principles and considerations guiding decisions and actions related to climate change.
eudaimonic A concept of well-being and flourishing that emphasizes human potential and fulfillment.

eutrophication Nutrient enrichment in water bodies leading to excessive algae growth and ecosystem degradation.
evaporation The process by which water changes from liquid to vapor, driven by solar radiation
evapotranspiration The combined process of water evaporation from surfaces and transpiration from plants into the atmosphere.
evidence The available body of facts or information indicating whether a belief or proposition is true or valid.
evolutionary adaptation Adaptations in species traits and behaviors over successive generations in response to environmental changes.
exergy The maximum useful work that can be extracted from a system at a given state, often related to energy efficiency.
exposure The exposure of people, assets, or systems to climate change impacts or hazards.
extended concentration pathways Scenarios describing future greenhouse gas concentrations and their impacts on climate and ecosystems.
external forcing Factors or influences external to Earth's climate system that alter its energy balance, such as solar radiation or volcanic eruptions.

externality/external cost/external benefit Costs or benefits arising from economic activities that affect third parties not directly involved in the transaction.
extinction The complete disappearance of a species from Earth.
extirpation The local extinction of a species from a specific geographic area, while surviving elsewhere.
extratropical cyclone A storm system outside the tropics, driven by temperature contrasts and frontal boundaries.
extratropical jets High-altitude air currents driven by temperature and pressure gradients, influencing weather paterns.
extreme climate event An unusual or severe weather event significantly deviating from typical climatic conditions.
extreme sea level An extreme event where sea level rises significantly above normal, often due to storms or tides.
extreme weather event An unusually severe or atypical weather event, such as hurricanes, heatwaves, or tornadoes, ofte linked to climate change.
extreme/heavy precipitation event Heavy precipitation events exceeding normal levels, often leading to flooding or other impacts.
faculae

Bright patches on the Sun's surface indicating intense magnetic activity.

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fairness The quality of being just,	equitable, or impartial in distribution or treatmen	t.
feasibility The practicality or achieve	ability of a proposed project, plan, or policy.	
final energy Energy in its final usable f	form after conversion and distribution to end-user	rs.
fine-mode aerosol o The amount of fine partic	optical depth les in the atmosphere affecting light transmission	and climate.
fingerprint A unique pattern or chara ence to identify climate c	acteristic indicative of a specific cause or origin, of	ten used in climate sci-
fire weather Meteorological condition	s conducive to wildfires due to dryness, heat, and	wind.
firn Compacted snow on glac	iers that has not yet turned into ice.	
fitness-for-purpose The suitability of a produc	ct, service, or system to meet specific needs or pu	poses.
flaring The burning of gas at oil p	oroduction sites, releasing greenhouse gases and	pollutants.

flexibility

The ability to adapt or modify policies and actions in response to changing circumstances or needs.

flexible governance Adaptive and responsive golenges.	vernance structures capable of addressing com	plex and dynamic chal-
flood Overflow of water onto norr	mally dry land, causing damage.	
flux The rate of transfer of a fluid	l, such as water or air, through a surface or bou	ndary.
food loss and waste Losses of food at various sta	ges from production to consumption.	
food security The condition where all peo safe, and nutritious food.	ple, at all times, have physical, social, and econ	omic access to sufficient,
food system The interconnected network globally.	k of food production, distribution, and consumր	otion within a region or
food-borne diseases Diseases caused by contami	inated food, leading to illness.	
foraminifera Marine organisms with prote	ective shells, crucial for paleoclimate research.	
forcing External influences causing	changes in Earth's energy balance and climate.	

forest A complex ecosystem dominated by trees and other vegetation, influencing climate and biodiversi ty.
forest degradation The deterioration of forest ecosystems due to human activities or natural processes
forest line The altitude above which trees cannot grow due to climatic conditions.
fossil fuel emissions Emissions of carbon dioxide and other greenhouse gases from burning fossil fuels.
fossil fuels Non-renewable energy sources like coal, oil, and natural gas formed over millions of years from organic matter.
free atmosphere The part of the atmosphere above the planetary boundary layer where weather phenomena occur.
frozen ground Ground that remains below freezing for more than two consecutive years, influencing ecosystems and infrastructure.
fuel poverty The inability to afford adequate energy services in a household or community.
fugitive emissions Emissions of greenhouse gases not intentionally produced, such as leaks from pipelines or storage tanks.

gender equity Fair distribution of resources, opportunities, and outcomes between genders
general circulation Large-scale atmospheric circulation patterns influencing global climate.
general circulation model Computer models simulating Earth's climate system to study past, present, and future climate conditions.
geocentric sea level change The change in sea level relative to the center of the Earth due to gravitational and rotational effects.
geoid The shape of Earth's gravitational field, representing sea level as an equipotential surface.
geostrophic winds or currents Winds or currents parallel to Earth's isobars or sea surface contours, driven by the pressure gradient and Coriolis force.
geothermal energy Renewable energy derived from the Earth's internal heat.
gini coefficient A measure of income distribution within a population, indicating inequality.
glacial isostatic adjustment The ongoing vertical land movements due to changes in ice and water loads following glacial retreat.

glacial lake outburst flood /glacier lake outburst

Sudden floods caused by the breach or drainage of glacial lakes, often due to glacier melting.

glacial or glaciatior The process or condition	1 related to glaciers or the growth and spread of gla	ciers.
glacial-interglacial Periodic shifts between c	cycles colder glacial and warmer interglacial periods over	geological time scales.
glaciated Covered, affected, or form	ned by glaciers.	
glacier A large mass of ice movir	ng slowly down a slope or valley, influenced by clim	nate.
glacierized Covered by glaciers.		
global carbon budg The balance between sou	get urces and sinks of carbon dioxide in Earth's atmosp	here and oceans.
global change The overall transformatio cesses.	on and changes in Earth's systems due to human ac	tivities and natural pro-
global dimming The reduction in solar racatmosphere.	diation reaching Earth's surface due to aerosols and	l particulates in the
global energy budg The balance between incommon and atmosphere.	get coming solar radiation and outgoing thermal radiat	tion from Earth's surface

global energy inventor A comprehensive inventory o	ry f global energy production, consumption, and	I sources.
global environment fa An international financial med	cility chanism supporting projects addressing globa	al environmental issues.
global mean sea level of the average sea level change		
global mean surface ai The average temperature of E	i r temperature Earth's surface air over a specified period.	
global mean surface te The average temperature of E	emperature Earth's surface, including oceans and land area	S.
global monsoon A seasonal wind and rainfall p	pattern affecting regions across the globe.	
global warming The increase in Earth's average gas emissions.	e surface temperature due to human activities	s, primarily greenhouse
global warming potent A measure of the relative glob	tial pal warming potential of a greenhouse gas co	mpared to carbon dioxi
governance The structures, processes, and	d norms by which authority and decision-maki	ng are exercised.
governance capacity The capability of institutions a	and organizations to effectively manage and r	espond to challenges.

gravitational Relating to or caused by o	gravitational force or effects.	
• •	d climate experiment ring changes in Earth's gravitational field and their	r implications for clima-
grazing land Land used primarily for g	razing livestock, supporting pastoral livelihoods.	
green climate fund A financial mechanism su countries.	pporting climate change mitigation and adaptation	on efforts in developing
green infrastructur Natural and engineered f wetlands.	e eatures promoting environmental sustainability, s	uch as green roofs and
greenhouse effect The warming of Earth's su	urface due to greenhouse gases trapping heat in th	ne atmosphere.
greenhouse gas em	ission metric	
greenhouse gas ne	utrality	
greenhouse gases Gases like carbon dioxide greenhouse effect.	and methane that trap heat in Earth's atmosphere	e, contributing to the
greenland ice sheet The massive ice sheet cov	: vering most of Greenland, influencing sea level rise	e and climate.

grey infrastructure Infrastructure primarily composed of concrete, steel, and other materials, contrasting with natural or green infrastructure.
gross domestic product The total value of goods and services produced within a country in a specific period.
gross primary production The total amount of carbon dioxide fixed by photosynthesis in plants.
grounding line The line where a glacier loses contact with the underlying bedrock, affecting ice flow and sea level rise.
ground-level ozone Ground-level ozone formed by chemical reactions between pollutants in sunlight.
groundwater recharge The process of replenishing groundwater reserves through natural percolation or artificial means.
gyre Large systems of rotating ocean currents driven by winds and Earth's rotation, influencing climate and ecosystems.
habitability The suitability of an environment for human habitation, influenced by factors like climate, resources, and infrastructure.
hadley circulation Global air circulation cells near the equator, driving weather patterns and climate.

halocarbons Synthetic chemicals containing carbon, chlorine, or bromine, contributing to ozone depletion and climate change.
halocline A steep change in salinity with depth in oceans or lakes.
halosteric Changes in sea level due to changes in ocean salinity, affecting ocean density and volume.
halosteric sea level change Changes in sea level due to changes in ocean salinity.
hazard A natural or human-induced event that poses a threat to human life, property, or the environmen
health The overall well-being, physical and mental, of individuals and communities.
heat index A measure combining temperature and humidity to quantify discomfort from heat.
heat stress Physiological strain from prolonged exposure to high temperatures, often exacerbated by humidicy.
heatwave A prolonged period of unusually high temperatures relative to the expected climate norms.
neavy precipitation event ntense precipitation events exceeding normal levels, leading to flooding or other impacts.

hedonic A method in economics determining a preferences.	the value of goods and services based	l on market demand and
heinrich event Abrupt cooling events during the last North Atlantic.	glacial period, caused by massive icel	perg discharges into the
heterotrophic respiration Carbon dioxide release into the atmos	sphere from microbial decomposition	of organic matter.
hindcast or retrospective for The practice of using models to simula		and understanding.
holocene The current geological epoch charactelization.	erized by stable climate conditions co	nducive to human civi-
household carbon footprint The total amount of greenhouse gas eactivities.	emissions directly and indirectly assoc	iated with a household's
human behaviour Actions, decisions, and behaviors of ir and adaptation.	ndividuals or groups, influencing clima	ate change mitigation
human influence on the climate Human activities contributing to chare emissions.		ough greenhouse gas

human mobility

The movement of people across or within geographical regions, influenced by environmental, social, and economic factors.

-		
human rights Fundamental rights ensu	ring the dignity, security, and freedom of individua	als and communities.
human security		
human system The interconnected huma ges.	an activities and systems influencing and affected	by environmental chan-
hydroclimate The study of water in the	atmosphere and its cycling between Earth's surfac	e and the atmosphere.
hydrofluorocarbons Synthetic chemicals used warming.	as substitutes for ozone-depleting substances, als	so contributing to global
hydrological cycle The continuous movement ration, precipitation, and	nt of water on, above, and below the surface of the runoff.	e Earth, including evapo-
hydrological droug l A prolonged period of red	ht duced water availability due to insufficient precipit	ration or water storage.
hydrological sensiti Sensitivity of a region or s	vity system to changes in the hydrological cycle, affect	ing water resources.
hydropower Electricity generation from	m flowing water, such as rivers or dams.	

he combined mass of Earth's water in oceans, lakes, rivers, and glaciers.
ayperthermal events eriods of rapid global warming events in Earth's history.
aypoxic ow oxygen levels in water bodies, affecting aquatic life and ecosystems.
ypoxic events vents where oxygen levels in water bodies drop below normal, affecting marine life.
he study of the distribution and variations in elevation across Earth's surface.
ce age eriods of long-term cooling or warming of Earth's climate, marked by glaciations or interglacial eriods.
ce core Sylindrical samples of ice drilled from glaciers or ice sheets, used to study past climate conditions.
ce sheet Massive ice masses covering land and formed by accumulated snow over millennia.
ce shelf floating platform of ice attached to a coastline or ice sheet.
ce stream ast-moving rivers of ice within ice sheets, flowing towards the coast.

ice—albedo feedback The feedback loop where melting ice reduces Earth's albedo, enhancing further warming.
iceberg Large floating chunks of ice calved from glaciers or ice shelves into the ocean
impact assessment A measure of the acidity or alkalinity of a substance.
impacts The effects and consequences of climate change on ecosystems, societies, economies, and the environment.
income The total earnings or money received by individuals or households from various sources.
incremental adaptation Incremental adjustments and improvements to adapt to climate change impacts.
indian ocean basin mode Oceanic climate patterns influencing rainfall and temperature in the Indian Ocean region.
indian ocean dipole An irregular climate oscillation affecting sea surface temperatures in the Pacific Ocean.
indigenous knowledge Traditional knowledge and practices developed by indigenous peoples over generations.
indigenous peoples Indigenous communities with ancestral ties to specific lands and traditional knowledge.

ndirect emissions Greenhouse gas emissions resulting from indirect activities, such as supply chains or infrastructure levelopment.
ndirect land-use change Changes in land use leading to greenhouse gas emissions, such as deforestation for agriculture.
ndustrial revolution The transition marked by industrial advancements, urbanization, and socio-economic changes.
nequality Disparities and uneven distributions of resources, opportunities, and outcomes among individuals or groups.
nformal settlement nformal settlements lacking legal recognition or basic services like water and sanitation.
nfrastructure Physical and organizational structures supporting societal functions and services.
nsolation olar radiation energy reaching Earth's surface.
nstantaneous radiative forcing due to aerosol–cloud interactions Changes in Earth's radiation balance due to interactions between aerosols, clouds, and radiation.
nstantaneous radiative forcing due to aerosol–radiation interactions thanges in Earth's radiation balance due to interactions between aerosols and radiation.
nstitutional capacity The ability of organizations or institutions to effectively implement policies and programs.

institutions Organizations, laws, and systems governing and regulating societal behaviors and activities.
insurance/reinsurance Financial protection against risks associated with climate-related disasters or events.
integrated assessment An approach integrating multiple disciplines to assess complex societal and environmental challenges.
integrated assessment model Models combining physical, economic, and social factors to assess climate change impacts and policies.
integrated assessment scenario%C2%A0ensemble A collection of scenarios or projections describing future climate and socio-economic conditions
inter-decadal pacific oscillation A multi-decadal climate oscillation affecting sea surface temperatures across the Pacific Ocean.
interglacial or interglaciation Periods between glacial periods characterized by warmer temperatures and less ice cover.
internal climate variability Natural variability in Earth's climate system, unrelated to external forcing factors.
internal variability Variability within Earth's climate system, independent of external factors or influences.
internet of things Interconnected devices transmitting data over the internet for monitoring and control purposes

interpolation uncertainty Uncertainty related to estimating values between known data points.
interstadial or interstade Periods of warmer climate conditions within glacial periods.
inter-tropical convergence zone The region near the equator where trade winds converge, influencing weather patterns and precipitation.
invasive species Non-native species that adversely affect local ecosystems, biodiversity, or human activities.
irreversibility Conditions or changes that cannot be reversed within a foreseeable timeframe
isostatic or isostasy Equilibrium in Earth's crust where buoyancy forces stabilize vertical movements
isotopes Atoms with the same number of protons but different numbers of neutrons, used in climate and geological studies.
just transitions Fair and equitable transitions to sustainable economies and societies, minimizing social and economic disruptions.
justice Fairness and impartiality in the distribution of benefits, burdens, and risks among individuals and groups.

kaya identity A formula used to analyze factors influencing greenhouse gas emissions, combining population, GDP per capita, energy intensity, and carbon intensity.
key climate indicators Key indicators used to monitor and assess climate change impacts, trends, and risks.
key risk Risks critical to understanding and managing climate change impacts on ecosystems, societies, and economies.
kriging A geostatistical method for interpolating spatial data points based on nearby values.
land Solid ground or soil, including terrestrial ecosystems and landscapes.
land cover The physical and biological cover over Earth's surface, including vegetation and artificial structures.
land degradation Deterioration of land quality and productivity, often due to human activities like agriculture and deforestation.
land degradation neutrality The state whereby land degradation is halted and reversed, achieving sustainable land use practices.
land management The management and use of land resources to achieve sustainable development and conservation goals.

land management of Changes in land use practises systems.	change tices, such as deforestation or afforestation, affecti	ng land cover and eco-
land potential The productive potential	of land for agriculture, forestry, and other uses.	
land rehabilitation The process of restoring of	degraded land to improve its ecological functionali	ty and productivity.
land restoration Actions to restore ecosyst	tems and habitats on degraded or deforested land.	
land surface air tem The temperature of Earth	nperature 's surface air, measured near the ground.	
land use The human activities and resources.	practices involving the management, utilization, a	and modification of lanc
land water storage Changes in the amount o te.	f water stored in land surfaces, influencing hydrolo	ogical cycles and clima-
land-cover change Changes in land cover typon.	pe over time, often due to human activities like def	orestation or urbanizati
land-use change Changes in land use from land cover types.	natural or semi-natural ecosystems to agriculture	, urban areas, or other

lapse rate The rate at which atmospheric temperature decreases with altitude under specific atmospheric conditions.
large-scale Involving or relating to a large scale, encompassing broad areas or regions.
last millennium The period from 1000 to 2000 CE, covering the last thousand years.
latent heat flux The transfer of heat energy during changes of state, such as evaporation or condensation.
leakage The unintended increase in greenhouse gas emissions or environmental impact in one location du to reduction measures elsewhere.
leapfrogging Skipping technological stages to adopt more advanced methods or technologies.
least developed countries Countries facing severe structural economic challenges and low human development indices.
lifecycle assessment Assessment of the environmental impacts of a product or service throughout its lifecycle.
lifetime The period for which a substance remains in the atmosphere or environment before breaking down.

light-absorbing particlesParticles absorbing sunlight in the atmosphere, contributing to warming.

likelihood The probability of occurre	ence or likelihood of a particular event or outcome.	
lithosphere Earth's rigid outer shell co	onsisting of the crust and upper mantle.	
livelihood The means of earning a li	ving, including income generation and subsistence	activities.
local extinction The extinction of a specie	es from a particular geographic area, but not global	ly.
local knowledge Knowledge and practices ons.	s developed by communities based on their local er	nvironment and traditi-
local sea level chan Changes in local sea leve	ge Is influenced by factors like land subsidence and oc	ean dynamics.
lock-in The situation where tech	nological or societal choices become entrenched, n	naking change difficult.
long-lived climate f Gases with long atmosph oxide.	iorcers neric lifetimes contributing to global warming, like r	methane and nitrous
long-lived greenho Gases like carbon dioxide buting to global warming	and methane that remain in the atmosphere for ex	xtended periods, contri-

loss and damage The irreversible loss and harm caused by climate change impacts, requiring international response.
low elevation coastal zones Low-lying coastal areas vulnerable to sea level rise and associated hazards.
low-likelihood Events or scenarios with a low probability of occurrence or happening.
madden-julian oscillation A tropical climate oscillation affecting weather patterns and precipitation in the Indian and Pacific Oceans.
maladaptive actions Actions exacerbating vulnerability to climate change impacts.
malnutrition Health conditions caused or exacerbated by inadequate nutrition or food quality.
managed forest Forests managed to optimize wood production while maintaining ecosystem functions.
managed grassland Grasslands managed to optimize livestock production while conserving biodiversity.
managed land Land managed for specific purposes, such as agriculture, forestry, or conservation.
marine cloud brightening A geoengineering concept aiming to increase cloud reflectivity to cool the planet.

marine heatwave An extended period of unusually warm ocean temperatures, affecting marine ecosystems.
marine ice cliff instability The potential collapse of ice cliffs along marine-based ice sheets, accelerating ice loss
marine ice sheet instability The potential instability and rapid disintegration of marine-based ice sheets due to warming.
marine isotope stage Geological periods characterized by similar oxygen isotope ratios in deep-sea cores, indicating past climate conditions.
marine-based ice sheet Portions of ice sheets resting on the sea floor, influencing sea level rise when melting.
market failure Market inefficiencies resulting in misallocation of resources and failure to address environmental costs.
mass balance/budget The balance or equilibrium between inputs and outputs of mass, energy, or substances in a system.
material substitution Substituting one material for another to reduce environmental impact.
mean sea level multilateral environmental agreement
measurement The process or action of measuring or determining quantities or properties.

megacity A city with a population exceeding 10 million inhabitants.
megadrought A prolonged period of severe drought affecting large regions or continents
meltwater pulse 1a A rapid rise in global sea levels around 14,000 years ago due to melting ice sheets.
mental health The psychological and emotional well-being of individuals and communities.
meridional overturning circulation The overturning circulation of water masses in the world's oceans, affecting climate and ecosystems.
meteorological drought A prolonged period of dry weather caused by a lack of precipitation.
methane A potent greenhouse gas emitted from natural and human sources, influencing climate change.
metric A standard unit or measure used to evaluate performance, impact, or effectiveness.
microclimate The climate conditions of a small-scale or localized area, differing from the surrounding region.
microwave sounding unit Instruments measuring microwave radiation emitted by Earth's atmosphere, used in weather and climate monitoring.

migrant A person moving from one region or country to another for various reasons, including environmental or economic factors.
migration The movement of people from one place to another, often driven by environmental or socioeconomic factors.
mineralization/remineralization The conversion of organic matter into minerals by microbial action, contributing to nutrient cycles.
mitigation Actions to reduce greenhouse gas emissions or enhance sinks to mitigate climate change impacts.
mitigation measures Measures and actions aimed at reducing greenhouse gas emissions or enhancing sinks to mitigate climate change.
mitigation option Options and strategies for reducing greenhouse gas emissions or enhancing sinks to achieve clima te goals.
mitigation pathways Different pathways or scenarios outlining actions and measures to achieve greenhouse gas emissions reductions.
mitigation potential The potential for reducing greenhouse gas emissions through various measures and technologies.
mitigation scenario Scenarios outlining potential pathways and outcomes based on different levels of mitigation action.

model initialization The process of setting initial conditions in climate models to simulate past or current climate conditions.
model spread The range or variability among model simulations or predictions for the same scenario
models Computer models simulating Earth's climate system to study and predict climate patterns and changes.
modes of climate variability Patterns or cycles of natural climate variations affecting weather and climate globally or regionally.
mole fraction or mixing ratio The ratio of the number of molecules of one substance to another in a mixture, often used for gases in the atmosphere.
monitoring and evaluation The continuous assessment and evaluation of climate-related actions and policies to gauge effectiveness and impact.
montreal protocol An international agreement aimed at phasing out ozone-depleting substances.
mountains Elevated areas of land characterized by high relief and distinct ecological zones.
multi-level governance A governance approach involving multiple levels of government, institutions, and stakeholders.

narrative A storyline or narrative used to convey complex scientific or policy information.
native species Species naturally occurring and evolving in specific ecosystems or regions.
natural systems Natural environments and ecosystems comprising living organisms and their interactions.
natural variability Variability in Earth's climate system caused by internal processes and natural phenomena.
nature-based solutions Ecosystem-based approaches using natural features and processes to address societal challenges.
nature's contributions to people The contributions of ecosystems to human well-being, including food, water, and cultural services.
near-surface permafrost Permanently frozen soil near Earth's surface, crucial for ecosystem stability in polar regions.
negative greenhouse gas emissions The removal of greenhouse gases from the atmosphere, reducing their concentration.
net negative greenhouse gas emissions Achieving a balance between greenhouse gas emissions and removals, resulting in no net addition to the atmosphere.
net primary production The total amount of carbon dioxide absorbed by plants and other photosynthetic organisms, influencing the carbon cycle.

net zero co2 emissio Achieving a balance betwee to the atmosphere.	een carbon dioxide emissions and removals, resul	ting in no net addition
net zero greenhouse A sustainable urban developrowth.	e gas emissions opment framework focusing on inclusive, resilient	and sustainable urban
new urban agenda Deposition of reactive nitr versity.	ogen compounds into ecosystems, influencing nu	trient cycles and biodi-
nitrogen deposition A potent greenhouse gas change.	emitted from agricultural and industrial activities,	influencing climate
nitrous oxide Gases other than carbon o	lioxide that contribute to radiative forcing and clir	nate change.
non-climatic driver Diseases not directly trans factors.	mitted by pathogens, often associated with lifesty	/le and environmental
non-co2 emissions a Factors unrelated to clima	and radiative forcing te causing environmental or societal changes.	
non-communicable Non-linear relationships o nately larger effects.	diseases r behaviors in climate systems, where small chang	es lead to disproportio-
non-linearity Volatile organic compound	ds contributing to atmospheric chemistry and clin	nate change.

non-methane volatile organic compounds Climate pathways avoiding overshooting global warming targets, ensuring long-term sustainability.
non-overshoot pathways A seasonal weather pattern affecting North America, characterized by increased rainfall and humi dity.
north american monsoon Atmospheric circulation pattern affecting weather patterns in the North Atlantic region.
north atlantic oscillation A climate oscillation influencing weather and atmospheric circulation in the Northern Hemisphere
northern annular mode
ocean acidification The largest bodies of saline water on Earth's surface, covering approximately 71% of its surface.
ocean alkalinization/ocean alkalinity enhancement Increasing ocean alkalinity to enhance carbon dioxide absorption and mitigate climate change impacts.
ocean carbon cycle The cycling of carbon through oceanic processes, including uptake, transport, and storage.
ocean deoxygenation Decreasing oxygen levels in the ocean, affecting marine life and ecosystems.
ocean dynamic sea level change Changes in sea level due to ocean dynamics, such as currents and temperature changes.

ocean fertilisation Adding nutrients to ocean waters to stimulate phytoplankton growth and enhance carbon dioxide absorption.
ocean heat uptake efficiency The efficiency with which the ocean absorbs and stores heat from the atmosphere.
ocean stratification Layering of ocean waters based on temperature and salinity, affecting marine ecosystems and circulation.
offset Compensation for greenhouse gas emissions through reductions elsewhere or carbon removal.
orbital forcing Changes in Earth's orbit affecting climate, influencing long-term climate patterns.
organic aerosol Aerosols composed of organic compounds, influencing atmospheric processes and climate
organic farming Agricultural practices avoiding synthetic chemicals and promoting natural methods.
outbreak Sudden increase in disease occurrence in a population, region, or ecosystem.
outgoing longwave radiation Longwave radiation emitted from Earth's surface into the atmosphere.
outlet glacier Glaciers flowing from ice sheets or ice caps into the ocean, affecting sea level rise.

overshoot pathways Climate pathways temporarily exceeding global warming targets before returning to safer levels.
oxygen minimum zone Areas of the ocean with very low oxygen levels, impacting marine ecosystems.
ozone A gas molecule consisting of three oxygen atoms, crucial in the upper atmosphere for absorbing ultraviolet radiation.
ozone layer The protective layer of ozone gas in the stratosphere, absorbing most of the sun's harmful ultravio let radiation.
ozone-depleting substances Substances that deplete the ozone layer, such as chlorofluorocarbons and halons.
ozonesonde Balloons carrying instruments to measure ozone concentration and atmospheric parameters.
pacific decadal oscillation
pacific decadal variability Long-term climate variability in the Pacific Ocean influencing weather patterns.
pacific-north american pattern Variability in sea surface temperatures and atmospheric circulation affecting climate in the Pacific-North American region.
palaeocene–eocene thermal maximum A rapid warming event 55 million years ago, impacting global climate and ecosystems.

paleoclimate The study of Earth's climate history using geological and biological evidence			
pandemic An epidemic of infectious disease affecting a large population across multiple countries or continents.			
pareto optimum An optimal allocation of resources where no one can be made better off without making someone else worse off.			
participatory governance A governance approach involving the participation of stakeholders in decision-making processes.			
particulate matter Small particles suspended in the atmosphere, influencing air quality and climate.			
pasture Land used for grazing livestock, influencing carbon storage and biodiversity.			
path dependence The idea that historical events or decisions constrain future options and choices.			
pathways Different routes or sequences of events leading to different outcomes or goals.			
pattern scaling Scaling climate model projections based on observed patterns or relationships.			
peat Organic material formed in waterlogged environments, storing carbon and influencing climate.			

peatlands Wetland ecosystems consisting of partially decayed plant material, crucial for	carbon storage.
pelagic Relating to the open sea rather than coastal waters or the seafloor.	
pelagos Open ocean regions beyond coastal and continental shelves.	
percentile A statistical measure indicating the percentage of data points below a given v	value.
peri-urban areas Areas adjacent to urban centers with mixed urban and rural characteristics.	
permafrost Perennially frozen ground in polar regions, sensitive to climate change.	
permafrost degradation	
permafrost thaw The thawing or melting of permafrost due to rising temperatures.	
perturbed parameter ensemble Ensemble simulations varying model parameters to assess climate model sen	nsitivity.
phenology The study of cyclic and seasonal natural phenomena in plants and animals.	

photosynthesis

The process by which plants use sunlight to convert carbon dioxide and water into sugars.

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physical climate storyline A narrative describing the physical processes and interactions influencing	g climate. —
planetary health The health of human civilization linked to the state of natural systems and	d the environment.
plankton Microscopic organisms floating in the ocean, forming the basis of marine	food webs.
planned relocation Planned relocation of communities or populations due to environmental	or climate-related risks.
plant evaporative stress Water stress in plants due to inadequate moisture availability, affecting g	rowth and yield.
plasticity The ability of organisms or systems to adapt to changing environmental of	conditions.
pleistocene The geological epoch from 2.6 million to 11,700 years ago, characterized	by repeated glaciations.
pliocene The geological epoch from 5.3 to 2.6 million years ago, preceding the Plei	stocene.
polar amplification The amplification of temperature changes in polar regions compared to g	llobal average warming.
policies Courses of action or strategies adopted by governments or organizations	to achieve specific goals

political economy The interaction of politics and economics influencing policy decisions and resource allocation.
pollen analysis The study of pollen grains in sediment cores to reconstruct past climates and ecosystems.
polycentric governance A governance approach involving multiple centers of authority at different levels.
pool A reservoir or storage of a substance in a system, such as carbon in forests or oceans.
potential evapotranspiration The potential evaporation rate from land and water surfaces under optimal conditions.
poverty The state of being poor, lacking basic necessities and resources for a decent standard of living.
poverty eradication Efforts and actions aimed at eradicating poverty and improving living conditions globally.
poverty trap A situation where individuals or communities remain trapped in poverty due to structural barriers
precipitable water The amount of water vapor in the atmosphere, influencing cloud formation and precipitation.
precipitation deficit A deficit in precipitation compared to the expected amount for a given period and region.

Precursors Chemical compounds that react to form pollutants or other substances.
predictability The extent to which a system or process can be predicted accurately.
prediction quality/skill The quality or accuracy of predictions made by climate models or forecasting techniques.
pre-industrial Relating to the period before industrialization and significant human influence on climate.
primary energy Energy from sources before conversion or transformation, such as coal or solar radiation.
primary production The production of organic matter through photosynthesis by plants and other organisms.
private costs Costs borne directly by individuals or entities, excluding externalities or societal impacts.
probability density function A function describing the likelihood of a continuous random variable taking a given value.
procedural justice Fairness in the processes and procedures governing the distribution of benefits and burdens.
process-based model A model describing physical processes and interactions in a system, such as climate or ecology

production-based emissions Emissions associated with the production of goods and services.
projection A projection or estimate of future climate conditions based on scientific data and models.
prosumers Consumers who both consume and produce goods or services, such as energy or food.
proxy A substitute used to estimate values for unavailable data points based on nearby values or known relationships.
quasi-biennial oscillation A cycle of winds in the equatorial stratosphere affecting atmospheric circulation and climate.
quaternary The geological period spanning the past 2.6 million years, characterized by repeated glaciations.
radiative forcing The change in energy balance of the Earth-atmosphere system causing climate change.
rapid dynamical change Abrupt and significant changes in Earth's systems, such as ice sheets or ocean currents.
reanalysis A method combining historical data with models to create consistent datasets for climate analysis.
reasons for concern A framework outlining qualitative reasons for concern regarding climate change impacts.

rebound effect The unintended increase in resource consumption following efficiency improvements.
reconstruction The process of reconstructing past climate conditions using proxy data and models.
reducing emissions from deforestation and forest degradation Efforts to decrease greenhouse gas emissions from deforestation and forest degradation.
reference period A specified time period used as a baseline for comparison in climate assessments.
reference scenario A future scenario used to explore potential outcomes and responses to climate change.
reforestation Planting trees in areas where forests have been depleted to mitigate climate change.
refugium Areas where species survive during adverse conditions, preserving biodiversity.
regenerative agriculture Agricultural practices enhancing ecosystem health and soil fertility while sequestering carbon.
region A specific geographic area characterized by distinct climate conditions.
regional climate messages Regional climate change impacts and projections tailored for specific geographic areas.

regional climate model Climate models focusing on specific regions to provide detailed local climate projections.
regional sea level change Changes in sea level varying regionally due to factors like ocean currents and land movement
regulation Rules and standards governing behavior or practices to achieve specific outcomes.
relative humidity The ratio of water vapor present in the air to the maximum possible at a given temperature.
relative sea level change Changes in sea level relative to the land surface due to factors like land subsidence or uplift.
remaining carbon budget The remaining allowable emissions to stay within a specified global warming limit.
renewable energy Energy derived from naturally replenished sources, such as sunlight or wind.
reporting The process of compiling and presenting data or information for specific purposes.
representative concentration pathways Scenarios representing future greenhouse gas concentrations and their effects on climate.
representative key risks Key risks identified as critical for planning and decision-making under climate change.

reservoir A natural or artificial storage location for substances, such as carbon in forests or oceans.
residual risk Risks that remain after risk reduction measures have been implemented.
resilience The capacity of a system to absorb disturbances while retaining its basic function and structure
resolution The level of detail or granularity in data or model outputs.
resource cascade The sequential use of resources through recycling and reuse to minimize waste.
respiration The process by which organisms convert organic matter into energy, releasing carbon dioxide.
response time or adjustment time The time it takes for a system to adjust to a new equilibrium after a disturbance.
restoration Activities restoring ecosystems to a more natural or healthy state.
return period The average time between events of a particular magnitude occurring.
return value The expected value of an extreme event, such as the 100-year flood level.

risk assessment The process of evaluating potential hazards and determining their likelihood and impacts.
risk framework A framework outlining how risks are identified, assessed, and managed.
risk management
risk perception Individual perceptions and judgments of risks influenced by personal experiences and beliefs.
risk trade-off Balancing risks against benefits when making decisions or taking actions.
risk transfer The transfer of risk from one party to another through mechanisms like insurance.
river discharge The volume of water flowing through a river channel over a specific period.
rock glacier A type of glacier containing significant amounts of rock debris, affecting movement and dynamics
runoff The runoff of water from land surfaces into streams, rivers, and lakes.
salt-water intrusion/encroachment The intrusion of seawater into freshwater aquifers due to factors like sea level rise.

sampling uncertainty

Uncertainty associated with the representativeness of sampled data.

scenario storyline A plausible and internally	consistent description of a potential future state	or development.
sea ice area The total area covered by	sea ice within a given region.	
sea ice concentratio The proportion of a given	area covered by sea ice, influencing climate and e	ecosystems.
sea ice extent The spatial extent of sea i	ce coverage in polar regions, impacting climate ar	nd ecosystems.
sea level change Changes in average globa	al sea level over time due to factors like thermal ex	xpansion and ice melt.
sea level equivalent The equivalent amount o rise.	t f freshwater needed to match the weight of melte	d ice causing sea level
sea level rise The rise in average global	sea level over time, influenced by climate change	
sea surface tempera The temperature of the u terns.	ature pper layer of the ocean's surface, influencing clima	ate and weather pat-
semi-arid zone A region receiving low an	nual precipitation, prone to drought and desertifi	cation.

shared socio-economic pathwaysA set of future socio-economic scenarios used in climate change impact assessments.

sharing economy. A collaborative economic model focusing on sharing resources and assets.
shelf seas Coastal seas extending from the shoreline to the continental shelf, rich in marine life.
shifting development pathways Changing pathways of socio-economic development to achieve sustainable outcomes.
shifting development pathways to sustainability Adaptive socio-economic pathways guiding development towards sustainability.
short-lived climate forcers Gases with short atmospheric lifetimes influencing climate change over shorter timeframes.
short-lived climate pollutants Pollutants with short atmospheric lifetimes contributing to climate change and air pollution.
significant wave height The average height of the highest third of waves in a given time period.
simple climate model A simplified climate model focusing on key processes to assess climate change impacts.
sink A natural or artificial storage location for absorbing greenhouse gases, such as forests or oceans
small island developing states Small island nations facing unique vulnerabilities to climate change impacts.

smart grids Electrical grids incorporating digital technology to optimize energy distribution and consumption.
snow cover The extent and duration of snow covering the ground, affecting climate and hydrology
snow cover duration The duration of time that snow remains on the ground during a given period.
snow cover extent The area covered by snow on the ground at a specific time, influencing climate and ecosystems.
snow water equivalent The amount of water contained within snowpack, impacting water availability and runoff.
social cost of carbon The economic cost imposed by carbon emissions, accounting for damages caused by climate change.
social costs Costs borne by society as a whole, including environmental and social impacts.
social group A group of individuals with shared interests, characteristics, or social relations.
social identity Identification with a group based on cultural, social, or economic factors.
social inclusion The inclusion of marginalized groups in decision-making processes and societal structures.

social infrastructure nfrastructure supporting social services and community well-being, such as healthcare and education.
Fairness and equity in the distribution of benefits and burdens in society.
Social learning The process of acquiring knowledge and understanding through interaction with others and the environment.
social protection Policies and programs providing financial and social support to vulnerable populations.
social-ecological system Interactions between social systems and ecological systems, influencing resilience and sustainability.
societal transformations Fundamental changes in societal structures and norms towards sustainability and resilience.
socio-economic scenario Scenarios depicting future socio-economic conditions and their implications for climate change.
Socio-technical transitions Transitioning socio-technical systems towards sustainability through technological and social innovations.
soil carbon sequestration The process of storing carbon in soils through improved land management practices.

soil erosion The erosion of topsoil by wind, water, or human activities, affecting soil fertility and ecosystems.
soil moisture The water content of soil, influencing plant growth, climate, and hydrological processes.
soil organic carbon Carbon stored in soil organic matter, contributing to carbon cycling and climate regulation.
soil organic matter Organic matter in soil, influencing soil structure, fertility, and carbon storage.
soil temperature The temperature of soil layers, affecting nutrient availability, plant growth, and microbial activity.
solar activity The activity of the sun influencing climate patterns and solar radiation reaching Earth's surface.
solar cycle The 11-year cycle of solar activity affecting solar radiation and climate variability.
solar energy Energy derived from sunlight using technologies like photovoltaic cells or solar thermal systems.
solar radiation Electromagnetic radiation emitted by the sun, influencing Earth's climate and weather patterns.
solar radiation modification Intentional modification of solar radiation reaching Earth's surface to mitigate climate change impacts.

solubility pump The process by which carbon dioxide dissolves in ocean surface waters and is transported to deeper layers.
solution space The range of possible solutions or strategies available to address a problem or challenge
Source The origin or cause of emissions or pollutants released into the atmosphere.
south american monsoon A monsoon affecting South America, characterized by seasonal wind and precipitation patterns.
south and south east asian monsoon Monsoonal weather patterns affecting South and Southeast Asia, influencing regional climate and agriculture.
south pacific convergence zone A convergence zone in the South Pacific Ocean influencing climate and weather patterns.
southern annular mode Variability in atmospheric circulation influencing weather and climate in the Southern Hemisphere.
southern ocean The ocean surrounding Antarctica, playing a crucial role in global climate and ocean circulation.
spatial and temporal scales The spatial and temporal dimensions over which phenomena or processes occur.
specific humidity The amount of water vapor in the atmosphere relative to air temperature and pressure.

spill-over effect The unintended spread or transfer of effects from one area to another
stadial or stade A cold period during an interglacial period, affecting climate and ecosystems.
standard A defined standard or level used for comparison or evaluation in scientific studies.
steric sea level change Changes in sea level due to thermal expansion, affecting coastal ecosystems and communities.
storm surge An abnormal rise in sea level along coastlines due to weather events like storms or hurricanes.
storm tracks Storm tracks are designated pathways in the atmosphere where storms develop and move, influenced by global wind patterns and atmospheric pressure systems, impacting regional weather and climate patterns.
storyline Long-term paths or trajectories of development, change, or events in a narrative.
stranded assets Assets losing value or becoming obsolete due to climate change impacts or policy changes.
stratification The layering of water columns based on temperature and salinity, influencing marine ecosystems.

stratosphere

The layer of Earth's atmosphere above the troposphere, containing the ozone layer and influencing climate.

stratosphere–troposphere exchange The exchange of air and substances between the stratosphere and troposphere, affecting atmospheric composition.
stratospheric aerosol injection Injecting aerosols into the stratosphere to reflect sunlight and cool the Earth's surface
stratospheric ozone
The protective layer of ozone in the stratosphere, absorbing most of the sun's harmful ultraviolet
stratospheric polar vortex A persistent wind pattern in the stratosphere over the polar regions.
stratospheric sounding unit Instruments measuring atmospheric conditions in the stratosphere.
streamflow The flow of water in rivers and streams.
stressors Factors or pressures causing stress or strain on systems or individuals.
subduction The process of one tectonic plate moving under another.
subnational actors Subnational entities such as states or provinces with political power or influence.

sudden stratospheric warmingRapid warming events in the stratosphere disrupting polar vortex patterns.

sufficiency Meeting basic needs without excee	eding environmental limits.
sulphur hexafluoride A potent greenhouse gas used in e 	lectrical transmission equipment.
sunspots Dark spots on the sun's surface link 	xed to solar activity and climate.
supply-side measures Measures targeting the productior	n or supply of goods and services.
surface energy budget The balance between incoming an 	d outgoing energy at Earth's surface.
surface mass balance The balance between accumulatio	n and loss of snow and ice on Earth's surface.
surprises Unexpected events or outcomes in	npacting climate or ecosystems.
sustainability The capacity to endure and thrive v	without compromising future generations.
sustainable development Development that meets present r	needs without compromising future generations.
sustainable development g Global objectives for sustainable d	goals evelopment adopted by the United Nations.

sustainable development pathways Pathways guiding development towards sustainability and resilience.
sustainable forest management The responsible use and conservation of forests to meet current and future needs.
•
sustainable intensification
Practices aiming to increase agricultural productivity without degrading resources.
sustainable land management
Practices ensuring sustainable use and conservation of land resources.
swash
The rush of seawater up a beach after a wave breaks.
sympagic
Associated with or occurring in sea ice habitats.
systems of innovation Systems promoting the development and adoption of new technologies and practices.
talik A layer of unfrozen ground surrounded by permafrost.
——————————————————————————————————————
technical potential The maximum achievable level of technology adoption under ideal conditions.
technology deployment
The process of introducing and using new technologies in various sectors.

technology diffusion The spread and adoption of technologies across different regions or sectors.
technology transfer The transfer of technologies from one entity or region to another.
teleconnection A large-scale atmospheric interaction linking distant regions.
teleconnection pattern Patterns in teleconnections affecting weather and climate.
temperature overshoot A temporary increase in global temperatures above desired targets.
terrestrial radiation Radiation emitted by Earth's surface into the atmosphere.
thermocline A boundary separating warm surface water from cold deep water in oceans.
thermokarst Thawing of ice-rich permafrost leading to land subsidence and landscape changes.
thermosteric sea level change Changes in sea level due to variations in water temperature.
tide gauge An instrument measuring sea level changes relative to a fixed point on land.

tier A classification or level within a system or framework.
time of emergence The time when a climate signal emerges from natural variability.
tipping element Climate elements with the potential to cause abrupt and irreversible shifts.
tipping point A critical threshold in a system triggering irreversible changes.
top-of-atmosphere energy budget The balance of incoming and outgoing energy at the top of Earth's atmosphere.
total alkalinity The measure of all dissolved bases in seawater.
total carbon budget The total amount of carbon stored or emitted within a specified system.
total solar irradiance The total solar power received per unit area at the top of the Earth's atmosphere.
total water level The combined level of ocean, tidal, and storm surge water height.
trace gas Gases present in trace amounts in the atmosphere, influencing climate.

trade-off A situation where one thing must be decreased to increase another.
traditional biomass Biomass obtained from traditional practices like wood or charcoal burning.
transformation Fundamental and irreversible changes in social, economic, and ecological systems.
transformation pathways Pathways guiding societal transformations towards sustainability.
transformational adaptation Fundamental changes in societal structures and norms towards sustainability and resilience.
transformative change The equilibrium global surface temperature increase after doubling CO2 concentration.
transient climate response The temperature increase caused by cumulative CO2 emissions over time.
transient climate response to cumulative co2 emissions A shift from one state to another, like from fossil fuels to renewable energy.
transition The line on mountains marking the transition from tree growth to no trees.
tree line Annual growth rings in tree trunks used to study past climates.

tree rings Uncertainty associated with estimates of trends over time.
trend estimates uncertainty Variability in Atlantic Ocean conditions affecting climate in tropical regions.
tropical atlantic variability A rotating storm system with low-pressure centers and strong winds.
tropical cyclone The boundary between the troposphere and stratosphere.
tropopause The lowest layer of Earth's atmosphere, where weather occurs.
troposphere Ozone found in the troposphere, influencing air quality and climate.
tropospheric ozone Large ocean waves caused by seismic activity or underwater eruptions.
tsunami Cold, treeless plains in the Arctic and Antarctic.
tundra The average time a substance remains in a reservoir before being replaced.
turnover time Regions classified by similar characteristics, such as climate and vegetation.

typological regions Lack of certainty or predictability about the future state of the climate system.
uncertainty An international treaty combating desertification, adopted in 1994.
united nations convention to combat desertification An international treaty addressing climate change, adopted in 1992.
united nations framework convention on climate change The absorption or assimilation of a substance by another.
uptake Areas where cold, nutrient-rich water rises towards the ocean surface.
upwelling region Systems of cities interconnected by economic and social activities.
urban Agricultural practices within urban and surrounding areas.
urban and peri-urban agriculture The phenomenon where urban areas are significantly warmer than rural areas.
urban heat island The process of urban growth and expansion.
urban systems Characteristics related to cities, including population density and infrastructure.

urbanisation The process of urban growth and expansion.	
urbanization Core principles and convictions shaping individual and collective behavior.	
values and beliefs Renewable energy sources that fluctuate based on natural factors like wind and sunlig	ht.
variable renewable energy Diseases transmitted by vectors such as mosquitoes or ticks.	
vector-borne disease The exchange of air between indoors and outdoors.	
ventilation Confirmation that actions or processes meet specified criteria or standards.	
verification Vertical movement of land relative to sea level.	
vertical land motion Halogenated substances with short atmospheric lifetimes.	
very short-lived halogenated substances Organic chemicals that can easily vaporize into the atmosphere.	
volatile organic compounds The susceptibility of a system to harm from exposure to stresses or hazards.	

vulnerability An index assessing the susceptibility of a system to harm from hazards.
vulnerability index
A system of atmospheric circulation influencing weather patterns.
walker circulation Diseases transmitted through contaminated water sources.
water cycle A body of water with uniform temperature and salinity.
water mass The availability of reliable access to sufficient quantities of clean water.
water security The efficiency of water use in achieving desired outcomes.
water-borne diseases The continuous movement of water on, above, and below the surface of the Earth.
water-use efficiency The increase in sea level due to wind stress and pressure differences.
wave setup The breakdown of rocks and minerals by chemical, physical, and biological processes.
weathering The state of being healthy, happy, and prosperous.

well-being
Gases like carbon dioxide that remain in the atmosphere for a long time, causing warming.
well-mixed greenhouse gas
A monsoon affecting West Africa, characterized by seasonal wind and precipitation patterns.
west african monsoon
Areas of land saturated with water, like swamps and marshes.
wetland
Energy generated from wind using turbines.
wind energy
A period of abrupt cooling during the Pleistocene Epoch.
younger dryas
The commitment to eliminate all greenhouse gas emissions.

zero emissions commitment

The displacement of people from their homes or communities.

IPCC Akronyme

Australian Academy of Science

20CR 20th Century Reanalysis	
A/R Afforestation and Reforestation	
A1B Special Report on Emissions Scenarios	
AABW Antarctic bottom water	
AAI Africa Adaptation Initiative	
AAIW Antarctic intermediate water	
AAO Antarctic Oscillation	
ΔΔς	

-		
AB Assembly Bill		
ABNJ Areas Beyond National Ju	risdiction	
ABS Australian Bureau of Stati	stics	
ACC alternating current		
ACCC Antarctic Circumpolar Cu	rrent	
ACCCRN Australian Competition a	nd Consumer Commission	
ACCESS Australian Community Cli	imate and Earth System Simulator	
ACCMIP Atmospheric Chemistry a	nd Climate Model Intercomparison Project	
ACCTS Agreement on Climate Ch	nange, Trade and Sustainability,	
ACE Accumulated Cyclone Eng	ergy OR Antarctic Climate & Ecosystems Cooperativ	ve Research Centre

ACF areal carbon footprint		
ACRE Agriculture and Climate Risk	Enterprise	
ACT Australian Capital Territory		
ADB Asian Development Bank		
ADEME Agence de l'Environnement e ment Agency)	et de la Maîtrise de l'Energie (French Environm	ent and Energy Manage-
ADW Alternate Drying and Wetting	g	
AED atmospheric evaporative der	mand	
AEMO Australian Energy Market Op	perator	
AerChemMIP Aerosols and Chemistry Mod	lel Intercomparison Project	
AeroCom Aerosol Comparisons between	en Observations and Models project	

ERONET erosol Robotic Network	
Frican Easterly Wave	
.F daptation Fund OR Africa OR Agroecological Farming OR airborne fraction of C	:02
rench Development Agency	
frican Development Bank	
FOLU griculture, Forestry and Other Land Use	
FR frica	
FSI ustralian Sustainable Finance Initiative	
GAGE dvanced Global Atmospheric Gases Experiment	
GCM tmospheric global climate model	

AGFP absolute global forcing potential
AgMIP Agricultural Model Intercomparison and Improvement Project
AGR/ECOL agriculture and ecological droughts
AGTP absolute global temperature change potential
AGWP absolute global warming potentials
AHP Analytic Hierarchy Processing
AI Artificial Intelligence
AIDR Australian Institute for Disaster Resilience
AIHW Australian Institute of Health and Welfare
AILAC Association of the Latin American and Caribbean Countries

AIRS		
Atmospheric Infrared Sou	under	
AIS Antarctic Ice Sheet		
AK Alaska		
ALBA Alianza Rolivariana nara	os Pueblos de Nuestra América (Bolivarian Alliance	a for the Paoples of our
Americas)	os i debios de Nuestra America (bolivarian Amarica	ior the reopies of our
ALCA Attributional Life Cycle A	ssessment	
ALL all forcings		
ALT Active Layer Thickness		
AM additive manufacturing		
AMIP Atmospheric Model Inter	comparison Project	
AMM Atlantic Meridional Mode		

AMMA African Monsoon Multidisciplinary Analyses
AMO Atlantic Multidecadal Oscillation
AMOC Atlantic Meridional Overturning Circulation
AMSU Advanced Microwave Sounding Unit
AMV Atlantic Multi-decadal Variability
ANPP Annual Net Primary Productivity
AO Arctic Oscillation
AOD aerosol optical depth
AOGCM Atmosphere-Ocean General Circulation Model
AOSIS Alliance of Small Island States

Antarctic Peninsula
APEC Asia-Pacific Economic Cooperation
APP Agricultural Adaptation and Perception
APRA Australian Prudential Regulation Authority
AQ nir quality
AR atmospheric river
AR4 Fourth Assessment Report of the Intergovernmental Panel on Climate Change
AR5 Fifth Assessment Report of the Intergovernmental Panel on Climate Change
AR6 Sixth Assessment Report of the Intergovernmental Panel on Climate Change
AR7 Seventh Assessment Cycle of the Intergovernmental Panel on Climate Change

ARA Arab Region of Asia
ARC African Risk Capacity
ARI Acute Respiratory Infection
ARO Arctic Ocean
ARP Arabian Peninsula
ARPA-E Advanced Research Projects Agency-Energy
ARS Arabian Sea
ART Architecture for REDD+ Transactions
Art. Article (e.g., of the UNFCCC),
ASAP Adaptation for Smallholder Agriculture Programme

ASBEC Australian Sustainable Built Environment Council
ASCM Agreement on Subsidies and Countervailing Measures
ASE Amundsen Sea Embayment
ASEAN Association of Southeast Asian Nations
ASFI Australian Sustainable Finance Initiative
ASI Avoid-Shift-Improve
ASK available seat kilometres
ASP Adaptive Social Protection
ATLAS Adaptation Thought Leadership and Assessments
AU African Union

AUC Area under the Curve
AUM assets under management
AUP Auckland Unitary Plan
AUS Australasia
AusMCM Australian—Maritime Continent monsoon
AVHRR Advanced Very High Resolution Radiometer
AZM Atlantic Zonal Modes
BAT pest available technology
Business-as-Usual
BC black carbon

BCA border carbon adjustment
BCE Before the Common Era
BCP biological carbon pump
BDP The Bangladesh Delta Plan
BE Berkeley Earth
BECCS Bioenergy with Carbon Dioxide Capture and Storage
BEES building energy efficiency standards
BEMS building energy management systems
BEV battery electric vehicle
BF-BOF blast furnace-basic oxygen furnace

BFV Barmah Forest Virus
BIM Building Information Modelling
BIPV building-integrated photovoltaic
BLUE Bookkeeping of land-use emissions
BMPs Best Management Practices
BOB Bay of Bengal
BOM Bureau of Meteorology
BORDA Bremen Overseas Research & Development Association
BP before the present
BR biennial report

BrC brown carbon
BRI Belt and Road Initiative
BRICS Brazil, Russia, India, China and South Africa
BRT bus rapid transport
BSISO boreal summer intra-seasonal oscillation
BTM Bhutanese Traditional Medicine
BTR biennial transparency report
BTU British thermal units
BUR bottom up
BVOC Biogenic Volatile Organic Compounds

C&S Cities and Settlements
C3S Copernicus Climate Change Service
C4MIP Coupled Climate Carbon Cycle Model Intercomparison Project
CA Conservation Agriculture
CAF Central Africa
CAGR compound annual growth rate
CAIT Climate Analysis Indicators Tool
CAM Crassulacean Acid Metabolism
CAMS Copernicus Atmosphere Monitoring Service
CanESM2 Canadian Earth System Model version 2

CanESM5 Canadian Earth System Model version 5
CAPE convective available potential energy
CAPEX capital expenditure
CAR Climate Action Reserve
CAT Climate Action Tracker
CAU Central Australia
CBA cost-benefit analysis
CBAM carbon border adjustment mechanism
CBCF consumption-based carbon footprint (accounting)
CBD Convention on Biological Diversity

CBDRRC common but differentiated responsibilities and respective capabilities
CBEs consumption-based emissions
CBO Community-Based Organisations
CBs Central Banks
CCA Climate-Change Adaptation
CCAC Climate and Clean Air Coalition
CCAFS Climate Change, Agriculture and Food Security
CCATWG Climate Change Adaptation Technical Working Group
CCC Climate Change Committee
CCD climate-compatible development

CCDMF China Clean Development Mechanism Fund
CCE Climate-Change Education
CCM chemistry–climate model
CCMI Chemistry–Climate Modelling Initiative
CCN cloud condensation nuclei
CCP Cross-Chapter Paper
CCPI Climate Change Performance Index
CCRA Climate Change Response Act
CCRIF Caribbean Catastrophe Risk Insurance Facility
CCS carbon dioxide capture and storage

CCT cirrus cloud thinning
CCU Carbon Dioxide Capture and Utilisation
CCUS carbon capture, use and storage,
CCX Chicago Climate Exchange
CD cooling degree days
CDC Community Development Committees
CDD cooling degree-days
CDEM Civil Defence & Emergency Management
CDIAC Carbon Dioxide Information Analysis Center
CDKN Climate & Development Knowledge Network

CDM Clean Development Mechanism
CDMC Community Disaster Management Committees
CDR carbon dioxide removal
CDRMIP Carbon Dioxide Removal Model Intercomparison Project
CDW Circumpolar Deep Water
CE Common Era
CEA cost-effectiveness analysis
CEDS Community Emissions Data System
CEIC Census and Economic Information Center
CER Certified Emissions Reduction

CERES Clouds and the Earth's Radiant Energy System
CES Cultural Ecosystem Services
CESM Community Earth System Model
CETA EU-Canada Comprehensive Economic and Trade Agreement
CFC Chlorofluorocarbon
CFCs chlorofluorocarbons
CfD contract for difference
CFL compact fluorescent lamp [/lighting]
CFM Community Forest Management
CFMIP Cloud Feedback Model Intercomparison Project

CFP Ciguatera Fish Poisoning _	
CFPP Coal-Fired Power Plant _	
CFSR Climate Forecast System F	eanalysis
CGE Computable General Equi	librium
CGIAR Consultative Group on Int	ernational Agricultural Research
CGRA Coordinated Global and R	egional Assessments
CGTP combined global tempera	ture change potential
CH Switzerland	
CH4 methane	
CH4 methane	

CHP combined heat and power
CICERO Center for International Climate and Environment Research
CID climatic impact-driver
CII Carbon Intensity Indicator
CIS Climate Information Services
CISM2 Community Ice Sheet Model 2
CLASP Collaborative Labelling and Appliance Standards Program
CLC constant land cover
CLCA Consequential Life Cycle Assessment
CLIMI Climate Laws, Institutions and Measures Index,

CLLJ Caribbean low-level jet	
CLP Community Learning Platform	
CLRTAP Convention on Long-Range Transboundary Air Pollution	
CLSAT China Land Surface Air Temperature	
CLT cross-laminated timber	
CMA Conference of the Parties serving as the meeting of the Parties to the Paris	Agreement
CMAP NOAA Climate Prediction Center Merged Analysis of Precipitation	
CMIP Coupled Model Intercomparison Project	
CMIP3 Coupled Model Intercomparison Project Phase 3	
CMIP5 Coupled Model Intercomparison Project Phase 5	

CMIP6 Coupled Model Intercomparison Project Phase 6
CMR Crude Mortality Rate
CMSI Climate Measurement Standards Initiative
CNA Central North America
CNG compressed natural gas
CNRM Centre National de la Recherche Météorologique
CO carbon monoxide
CO ² carbon dioxide
CO ² -eq carbon dioxide equivalent
CO2 emissions

CO2-eq carbon dioxide equivalent
CO2-FFI CO2 from Fossil Fuel combustion and Industrial processes
CO2-LULUCF CO2 from Land Use, Land-Use Change and Forestry
CoA Commonwealth of Australia
COAG Council of Australian Governments
COBE Centennial in situ Observation-Based Estimates of Sea Surface Temperature
CODOHSAPA Centre for Dialogue on Human Settlement and Poverty Alleviation
COMMIT Climate policy assessment and Mitigation Modelling to Integrate national and global Transition pathways
COP Conference of the Parties
COP16 16th Session of the Conference of the Parties

COP19 19th Session of the Conference of the Parties
COP26 26th Session of the Conference of the Parties
COPD Chronic Obstructive Pulmonary Disease
CORDEX Coordinated Regional Climate Downscaling Experiment
CORSIA Carbon Offsetting and Reduction Scheme for International Aviation
COSMO Consortium for Small-scale Modeling
COSSAO Corporacion De Servicios De Salud Y Desarrollo Socioeconemico, El Otoao
COVID-19 coronavirus disease of 2019
CP Central Pacific
CPA Conservation Priority Areas

CPI Climate Policy Integration
CPM convection-permitting model
CPRS Climate Policy Relevant Sectors
CPTPP Comprehensive and Progressive Agreement for Trans-Pacific Partnership
CRA climate risk and adaptation assessment
CRC Climate Resilient City
CRD climate-resilient development
CRDP Climate Resilient Development Pathway
CRE cloud radiative effect
CREMAs Community Resource Management Area Mechanisms (Ghana)

CRF common reporting format	
CRFS City Region Food System	
CRGE Climate Resilient Green Economy	
CRIBs Climate Relevant Innovation-system Builders	
CRIDA Climate Risk Informed Decision Analysis	
CRM cloud resolving model	
CRO Chief Resilience Officer	
CRS Climate Regime Shifts	
CRU Climate Research Unit	
CRUTEM Climatic Research Unit gridded global historical near-surface air temperatur	e dataset

CRUTS Climatic Research Unit gridded time-series dataset
CS Climate Services
CSA Climate-Smart Agriculture
CSB Cross-Section Box
CSC climate-smart cocoa
CSF Climate-Smart Forestry
CSI Cement Sustainability Initiative
CSIRO Commonwealth Scientific Industrial and Research Organisation
CSOs Combined Sewer Overflows
CSP concentrating solar power

CSR corporate social responsibility
CSSP cross-sector social partnership
CTCN Climate Technology Centre and Network
CurPol Current Policies scenario
CVD Cardiovascular Disease
CZ Czech Republic
DAC direct air capture
DACCS direct air carbon capture with carbon storage
DACCU direct air capture carbon and utilisation
DAE Direct Access Entities

DAI Dangerous Anthropogenic Interference
DALY Disability-Adjusted Life Year
DAMIP Detection and Attribution Model Intercomparison Project
DAPP Dynamic Adaptive Pathways Planning
DBH diameter at breast height
DC direct current
DCCEE Department of Climate Change, Energy and Efficiency
DCPP Decadal Climate Prediction Project
DE Germany
DECK Diagnostic, Evaluation and Characterization of Klima

DeepMIP Deep-Time Model Intercomparison Project
DEM Digital Elevation Model
DENR Department of Environment and Natural Resources
DES Department of Environment and Science
DESA Department of Economic and Social Affairs
DF drought frequency
DFIs Development Finance Institutions
DGVM dynamic global vegetation model
DGVMs Dynamic Global Vegetation Models
DHW Degree Heating Weeks

DI Drought Index
DIC dissolved inorganic carbon
DINA Drought Impact and Needs Assessment
DISER Department of Industry, Science, Energy and Resources
DIY Do It Yourself
DJF December–January–February
DJFM December–January–February–March
DLS decent living standards
DMDU Decision-Making under Deep Uncertainty
DMS dimethyl sulphide

DOC Dissolved Organic Carbon
DOM Dissolved Organic Matter
DRC Democratic Republic of Congo
ORFIP Disaster Risk Financing and Insurance Program
ORI direct reduced iron
DRM Disaster Risk Management
ORR Disaster Risk Reduction
DSM demand-side management
DSR Direct-Seeded Rice
OTR diurnal temperature range

DU Dobson Units	
DWM down woody material	
E Exposure	
ELUCland-use chang	ge emissions
EaaS energy as a service	
EAD Expected Annual Damage	<u>2</u> S
EAF electric arc furnace	
EAIS East Antarctic Ice Sheet	
EAN East Antarctica	
EAO Equatorial Atlantic Ocean	
EAS	

East Asia

_	
EAsiaM East Asian monsoon	
EASM East Asian summer monso	oon
EAU Eastern Australia	
EAWM East Asian winter monsoc	on
EbA Ecosystem-based Adaptat	tion
EBAF CERES Energy Balanced ar -	nd Filled climate data record
EBEs extraction-based emission	ns
EBM Energy Balance Model -	
EBS Eastern Bering Sea	
EBSA Ecologically and Biologica	ally Significant Areas

Eastern boundary upwelling systems
End-Century
ECB European Central Bank
ECMWF European Centre for Medium-Range Weather Forecasts
ECOSOC Economic and Social Council of the United Nations
ECS equilibrium climate sensitivity
ECV Essential Climate Variable
ECWL Extreme Coastal Water Level
EDCD European Centre for Disease Prevention and Control
EDGAR Emissions Database for Global Atmospheric Research

EDLC electrochemical double layer capacitor
EDRM Emergency and Disaster Risk Management
EDW elevation-dependent warming
EEA European Environment Agency
EECO Early Eocene Climatic Optimum
EED Energy Efficiency Directive
EEDI Energy Efficiency Design Index
EEE emissions embodied in exports
EES electrical energy storage
EET emissions embodied in trade

EEU Eastern Europe
EEXI Energy Efficiency Existing Ship Index
EEZ Exclusive Economic Zone
EF emission factor
EFRs Environmental Flow Requirements
EgC exagrams of carbon (1000 petagrams of carbon)
EGR exhaust gas recirculation
EGTT Expert Group on Technology Transfer
EIA Energy Information Administration
EIMs Energy Improvement Mortgages

Equatorial Indian Ocean
EIP energy and industrial processes
EJ exajoule
EKC Environmental Kuznets Curve
EMAS Eco-Management and Auditing Scheme
EMIC Earth models of intermediate complexity
ENA Eastern North America
ENACTS East Africa and the West African Sahel
ENSO El Nino-Southern Oscillation
EOF empirical orthogonal function

Essential Ocean Variable
EP Environmental Peacebuilding
EPA USA Environmental Protection Agency
EPBD Energy Performance Buildings Directive
EPCs Energy Performance Certificates
EPD Environmental Product Declaration
EPO Equatorial Pacific Ocean
EPR extended producer responsibility
EPS Emissions Performance Standard
EqAmer equatorial America

ECMWF 20th century reanalysis
ERA20CM ECMWF 20th century atmospheric model ensemble
ERA5 ECMWF global reanalysis (replaces
ERA-Interim ECMWF global reanalysis
ERF effective radiative forcing
ERFaci effective radiative forcing due to aerosol–cloud interactions
ERFari effective radiative forcing due to in aerosol–radiation interactions
ERIA Economic Research Institute for ASEAN and East Asia
ERSST Extended Reconstructed Sea
ES Spain

ESA European Space Agency	
ESA CCI European Space Agency Cli	mate Change Initiative
ESAF East Southern Africa	
ESB East Siberia	
ESCC Earth Systems and Climate	Change
ESCI Electricity Sector Climate In	formation
ESCO Energy Service Company	
ESD education for sustainable d	evelopment
ES-FiT Energy Savings Feed-in Tari	ff
ESG environmental, social and g	overnance,

ESGF Earth System Grid Federation
extreme sea level
ESM energy systems model
ESMValTool Earth System Model Evaluation Tool
ESRL NOAA Earth System Research Laboratory
ESW Economic and Sector Work
ESWL extreme still water levels
ET evapotranspiration
ETC extratropical cyclone
ETCCDI Expert Team on Climate Change Detection and Indices

ETP Energy Technology Perspectives (IEA report) **ETS Emissions Trading System ETWL Extreme Total Water Level** EU **European Union EU ETS European Union Emissions Trading Scheme EU-27** European Union member states [excluding UK] **EU-28** European Union member states [including UK] **EU-RED EU Renewable Energy Directive** EV electric vehicle **EW** enhanced weathering

EWFD European Water Framework Directive
EWS Early Warning System
FACE Free-Air Carbon Dioxide Enrichment
FaIR Finite Amplitude Impulse Response
FAO Food and Agriculture Organization
FAPAR fraction of absorbed photosynthetically active radiation
FAQ Frequently Asked Questions
FAR IPCC First Assessment Report
FBD Food-Borne Disease
FCDO UK Foreign, Commonwealth and Development Office,

FCV fuel cell vehicle
FD frost days
FDI Foreign Direct Investment
FEDURP Federation of the Urban and Rural Poor
FEMA Federal Emergency Management Agency
FESOM Finite Element Sea ice/Ice Shelf Ocean Model
FEW Food-Energy-Water
FFDI Forest Fire Danger Index
FFI Fossil-Fuel combustion and Industrial processes
F-gas fluorinated gas

F-gases Fluorinated gases
FIC Faster Innovation Case
Fish-MIP Fisheries and Marine Ecosystem Model Intercomparison Project
FiT feed-in tariff
FITP feed-in premium
FLEGT Forest Law Enforcement, Governance and Trade,
FLW food loss and waste
FMU Forest Management Unit
FOLU forestry and other land use
FPIC Free Prior and Informed Consent

FR France	
FRAND fair, reasonable and non-	discriminatory,
FSC Forest Sustainability Cou	ncil
FT Fischer-Tropsch	
FTA free trade agreement	
FW Fire Weather	
FWL Freshwater Lens	
FWM fine woody material	
FYROM North Macedonia	
G20 Group of Twenty	

GAMI Global Adaptation Mapping Initiative
GAST Global Mean Surface Air Temperature
GATS General Agreement on Trade in Services
GATT General Agreement on Tariffs and Trade
GBAM ground-based albedo modifications
GBCA Green Building Council of Australia
GBP Great Britain Pound
GBR Great Barrier Reef
GBRMPA Great Barrier Reef Marine Park Authority
GCAM Global Change Assessment Model

GCCA Global Cement and Concrete Association
GCF Green Climate Fund
GCM Global Climate Model
GCoM Global Covenant of Mayors
GCOS Global Climate Observing System
GCP Global Carbon Project
GDD growing degree days
GDE Groundwater-Dependent Ecosystem
GDP gross domestic product
GEA Global Energy Assessment

GEF Global Environment Facility
GeoMIP Geoengineering Model
GFBI Global Forest Biodiversity Initiative
GFCA Global Framework for Climate Action
GFCF Gross-fixed capital formation
GFCS Global Framework for Climate Services
GFDL NOAA Geophysical Fluid Dynamics Laboratory
GFED Global Fire Emissions Database
GHA Greater Horn of Africa
GHCN NOAA Global Historical Climatology Network

GHCNd NOAA Global Historical Climatology Network daily database	
GHCNv4 NOAA Global Historical Climatology Network monthly database version 4	
GHG greenhouse gas	
GHM global hydrological model	
GI Gastrointestinal	
GIA glacial isostatic adjustment	
GIC Greenland/Iceland	
GIS global innovation system	
GISS NASA Goddard Institute for Space Studies	
GISTEMP NASA Goddard Institute for Space Studies Surface Temperature Analysis	

GIZ the German Development Agency
GJ gigajoule
Glacier MIP Glacier Model Intercomparison Project
GLDAS Global Land Data Assimilation System
GLEON Global Lakes Ecological Observatory Network
GLOF Glacial Lake Outburst Flood
GloGEM Global Glacier Evolution Model
GM Global monsoon
GMMIP Global Monsoons Model Intercomparison Project
GMRIO global multi-region input-output

GMSL global mean sea level
GMSLR Global Mean Sea Level Rise
GMST global mean surface temperature
GMT Global Mean Temperature
GMTSL global mean thermosteric sea level
GNI gross national income
GNSS Global Navigation Satellite System
GOA-ON Global Ocean Acidification Observing Network
GOME Global Ozone Monitoring Experiment
GOSAT Greenhouse Gases Observing Satellite

GPCC Global Precipitation Climatology Centre
GPCP Global Precipitation Climatology Project
GPG Good Practice Guidance
GPM Global Precipitation Mission
GPP Gross Primary Production
GPS Global Positioning System
GPT general-purpose technologies
GQL Good Quality of Life
GRACE Gravity Recovery and Climate Experiment
GRD gravitational, rotational and deformational

GRDC Global Runoff Data Centre
GrIS Greenland Ice Sheet
GSAT global surface air temperature
GSMaP Global Satellite Mapping of Precipitation dataset
Gt Gigatonnes
GtC gigatonnes of carbon
GtCO2 gigatonnes of carbon dioxide
GtCO2-eq gigatonnes of CO2 equivalent
GTEM global transport energy sectoral models
GTP global temperature change potential

GW Gigawatt	
GWL global warming level _	
GWP global warming potential _	
GWP100 Global Warming Potential	over a 100 year time horizon
GWR Geographically Weighted _	Regression
GWRC Greater Wellington Region	nal Council
GWSHP Groundwater-Source Heat	Pumps
GWSI Global Water Security Inde	≥x
H Hazard	
HAB Harmful Algal Bloom	

HadCM3 Hadley Center Coupled Model
HadCRUT Hadley Centre Climatic Research Unit gridded surface temperature dataset
HadEX3 Hadley Centre gridded land surface extremes indices
HadGEM Hadley Centre Global Environment Model
HadISST Hadley Centre Ice and Sea Surface Temperature dataset
HadSST Hadley Centre Sea Surface Temperature dataset
HAP household air pollution
HC Hadley circulation
HCE historical cumulative emission
HCFC hydrochlorofluorocarbon

HCFCs hydrochlorofluorocarbons
HCS High Carbon Stock
HCSA High Carbon Stock Areas
HCVA High Conservation Value Areas
HD heating degree days
HDD Heat Degree Days
HDI Human Development Index
H-DRI Hydrogen-based direct reduced iron
HDSR Health and Disability System Review
HDV Heavy-duty vehicles

HELP High Level Experts and Le	aders Panel
HEMS home energy manageme	nt system
HES Hybrid energy storage	
HEV hybrid electric vehicle	
HFC hydrofluorocarbon	
HFCs Hydrofluorocarbons	
HFCV hydrogen fuel cell vehicle	
HFRS Haemorrhagic Fever with	Renal Syndrome
HI heat index	
HighResMIP High Resolution Model In	tercomparison Project

HIHD Historical Index of Human Development
HIV Human Immunodeficiency Virus
HKH Hindu Kush Himalaya
HLD High Latitude Dust
HLPF High-Level Political Forum
HN Houghton and Nassikas
HNO3 nitric acid
HNPP Herbaceous Net Primary Productivity
HPLE High Level Panel of Experts
HRBA Human Rights-Based Approach

HSR high-speed rail
HVAC heating, ventilation and air conditioning,
HVO hydrotreated vegetable oil
HYDE History database of the Global Environment
IAGA International Air Transport Association
IAGOS In-service Aircraft for a Global Observing System
IAM integrated assessment model
IAS Invasive Alien Species
IBAI Index-Based Agricultural Insurance
IBE income-based emission accounting

ICA Insurance Council of Australia
ICAO International Civil Aviation Organization
ICCT International Council on Clean Transportation
ICE internal combustion engine
ICESat Ice, Cloud and land Elevation Satellite
ICEV internal combustion engine vehicles
ICLEI Local Governments for Sustainability
ICM Integrated Coastal Management
ICNZ Insurance Council of New Zealand
ICOADS International Comprehensive Ocean–Atmosphere Data Set

ICRI International Coral Reef Initiative
ICT Information and Communications Technology
ICV Instituto Centro de Vida
ICZM Integrated Coastal Zone Management
ID Insufficient Data
IDDRI Institute for Sustainable Development and International Relations
IDF International Diabetes Foundation
IDMC Internal Displacement Monitoring Centre
IDP Internally Displaced People
IEA International Energy Agency

IEA-STEPS International Energy Agency Stated Policies Scenario
IFC International Finance Corporation
IFDD Institut de la Francophonie pour le Développement Durable (Francophonie Institute for Sustainable Development)
IFI international financial institution
IFPRI International Food Policy Research Institute
IGCC Investor Group on Climate Change
IHME Institute for Health Metrics and Evaluation
IIASA International Institute for Applied Systems Analysis
IIED International Institute for Environment and Development
IIGCC Institutional Investors Group on Climate Change

IIoT industrial internet of things
ILB incandescent light bulb
ILM intrusive load monitoring
ILUC Indirect Land-Use Change
IMBIE Ice Sheet Mass Balance Intercomparison Exercise
IMF International Monetary Fund
IMO International Maritime Organization
IMP Illustrative Mitigation Pathway
IMP-GS Illustrative Mitigation Pathway - Gradual Strengthening
IMP-LD Illustrative Mitigation Pathway - Low Demand

MP-Neg Ilustrative Mitigation Pathway - Net Negative Emissions
MP-Ren Ilustrative Mitigation Pathway - Renewable Electricity
MP-SP Ilustrative Mitigation Pathway - Shifting Pathways
NDC ntended Nationally Determined Contributions
NP ce nucleating particle
ntercomparison Project
OB ndian Ocean Basin
OD ndian Ocean Dipole
oT nternet of things
P Ilustrative Pathway

PBES ntergovernmental Science-Policy Platform on Biodiversity and Ecosystem Ser
PCC ntergovernmental Panel on Climate Change
PLC ndigenous Peoples and Local Communities
P-ModAct Iustrative Pathway Moderate Action
PO nter-decadal Pacific Oscillation
PP Independent power producers
PPU Industrial processes and product use
PR ntellectual property rights
PSL nstitut Pierre-Simon Laplace
QR nterquartile Range

IRENA International Renewable Energy Agency
IRF instantaneous radiative forcing
IRFaci Instantaneous radiative forcing (or effect) due to aerosol-cloud interactions
IRGC International Risk Governance Council
ISIMIP Inter-Sectoral Impacts Model Intercomparison Project
ISME International Society for Mangrove Ecosystems
ISO International Organization for Standardization
IT Italy
ITCZ Inter-tropical Convergence Zone
ITF International Transport Forum

ITMO internationally transferred mitigation outcome
ITUC International Trade Union Confederation
IUCN International Union for the Conservation of Nature
IUWN Integrated Urban Water Management
IVA Integrated Vulnerability Assessments
IWGIA International Work Group for Indigenous Affairs
IWRM Integrated Water Resource Management
JAS July–August–September
JAXA Japan Aerospace Exploration Agency
JICA Japanese International Cooperation Agency

JJA June–July–August
JJAS June – July – August – September
JMA Japan Meteorological Agency
JRA-55 Japanese 55-year Reanalysis
JRC Joint Research Centre
K1 Mountain Delineation
K2 Mountain Delineation
K3 Mountain Delineation
KNOMAD Knowledge Partnership on Migration and Development
KR Key Risk

L&D Losses and Damages	
LAI leaf area index	
LAM Latin America and the Caribb	pean
LAP light-absorbing particle	
LARMIP Linear Antarctic Response M	odel Intercomparison Project
LCA life cycle assessment or,life c	ycle analysis,
LCC lifecycle costs	
LCCC levelised cost of conserved c	arbon
LCCE levelised cost of conserved e	nergy
LCOE Levelized Cost of Energy	

LCP Local Community Perception
LC-PUFAs Long-Chain Polyunsaturated Fatty Acids
LCS low-carbon society
LDC Least Developed Countries
LDCF Least Developed Country Fund
LDCs Least-Developed Countries
LDN Land Degradation Neutrality
LDT Last deglacial transition
LDV light-duty vehicle
LEAF Lowering Emissions by Accelerating Forest Finance

LECZ Low-Elevation Coastal Zone
LED light-emitting diode
LED scenario Low Energy Demand scenario
LEDS Low Emission Development Strategies
LEED Leadership in Energy and Environmental Design
LEED-ND Leadership in Energy and Environmental Design - Neighbourhood Design
LEO low Earth orbit
LGBTQI Lesbian, Gay, Bisexual, Transgender, Queer, Intersex
LGM Last Glacial Maximum
LGNZ Local Government of New Zealand

LI Lithuania
LIB lithium-ion battery
LIG Last Interglacial
LIMIC Low-Income and Medium-Income Countries
Li-on Lithium-ion
LIRE IMAGE-Lifestyle-Renewable (IEA scenario)
LK Local Knowledge
LLGHG long-lived greenhouse gas
LLHI Low-likelihood, high-impact
LMMA Locally Managed Marine Area

LNG		
liquefied natural gas		
LNOx		
lightning NOx		
LPG liquefied petroleum gas		
LR lapse rate		
LSAT land surface air temperat	ure	
LSLA Large-Scale Land Acquisit	tion	
	hold the increase in the global average temperatus and to pursue efforts to limit the temperature in	
LTO long-term operation		
LTP Long-Term Plan		
LU Luxembourg		

LUC and-use change
LULUC Land Use and Land-Use Change
LULUCF Land Use, Land-Use Change and Forestry
LUM and-use model
.W ongwave
LWP iquid water path
LWS and-water storage
MA Mitigation Alliance
MaaS Mobility as a Service
MAC narginal abatement costmbpd, million barrels per day,

MAGICC Model for the Assessment of Greenhouse Gas Induced Climate Change
MAM March–April–May
MAP Municipal Adaptation Plan
MAR Managed Aquifer Recharge
MAT marine air temperature
MBIE Ministry of Business, Innovation and Employment
MC Mid-Century
MCB marine cloud brightening
MCDA Multi-Criteria Decision Analysis
MCO Miocene Climatic Optimum

MCP Maximum Catch Potential
MCPP Municipal Climate Protection Programme
MCS mesoscale convective system
MD Mega-Drought
MDB Murray-Darling Basin
MDG Millennium Development Goal
MEA material efficiency
MEASO Marine Ecosystem Assessment for the Southern Ocean
MED Mediterranean
MEE Ministry of Ecology and Environment

MEFF Mediterranean Flood Fatalities Database
MeHg Methylmercury
MEL Monitoring, Evaluation and Learning
MENA Middle East North Africa
MEPC Marine Environment Protection Committee
MEPSs Minimum Energy Performance Standards
MERI Monitoring, Evaluation, Reporting and Improvement
MERRA Modern-Era Retrospective Analysis for Research and Applications
MERS Middle East Respiratory Syndrome
MES material efficiency scenario

METACLIP Metadata for climate products project
MfE Inistry for the Environment
NFP Multistakeholder Forestry Programme
MGNREGA Nahatma Gandhi National Rural Employment Guarantee Act
MH nid-Holocene
Mha nillion hectares
AHW Narine Heatwaves
/II Iyocardial Infarction
AICI narine ice cliff instability
AIGA Iultilateral Investment Guarantee Agency

MIP Model Intercomparison Project
MIPs Model Intercomparison Projects
MIROC Model for Interdisciplinary Research on Climate
MIS mission-oriented innovation systems
MISI marine ice sheet instability
MISMIP Marine Ice Sheet Model Intercomparison Projects
MJ megajoule
MJO Madden–Julian Oscillation
Mkm2 million square kilometres
MLO Mauna Loa Observatory

MLP multi-level perspective
MME multi-model ensemble
MMT Minimum Mortality Temperature
MOC meridional overturning circulation
ModAct Moderate Action scenario
MODIS Moderate Resolution Imaging Spectroradiometer
MOE molten oxide electrolysis
MOOC massive open online course
MPa megapascal
MPI Multidimensional Poverty Index

MPWP mid-Pliocene Warm Period
MRI Meteorological Research Institute, Japan Meteorological Agency
MRV Monitoring, Reporting and Verification
MS member state
MSD midsummer drought
MSFD Marine Strategy Framework Directive
MSL Mean Sea Level
MSME micro, small and medium enterprises,
MSP Marine Spatial Planning
MSRI Modified System of Rice Intensification

MSSD Mediterranean Strategy for Sus	tainable Development
MSY Maximum Sustainable Yields	
Mt megatonne	
MTA methanol-to-aromatics	
MTE Mediterranean-Type Ecosystem	s
MTFR maximum technically feasible r	eductions
MTO methanol-to-olefins	
MWh megawatt hour	
N ² O nitrous oxide	
N20 nitrous oxide	

NADW North Atlantic Deep Water
NAF North Africa and Middle East
NAFTA North American Free Trade Agreement
NAHS National Aboriginal Health Strategy
NAM Northern Annular Mode
NAMA Nationally Appropriate Mitigation Actions
NAmerM North American monsoon
NAO North Atlantic Oscillation
NAP national adaptation plan
NAPA National Adaptation Programmes of Action

NARCCAP North American Regional Climate Change Assessment Program
NAS National Adaptation Strategy
NASA USA National Aeronautics and Space Administration
NASH North Atlantic Subtropical High
NAU Northern Australia
NAZCA Non-State Actor Zone for Climate Action
NBI Nile Basin Initiative
NBP Net Biome Productivity
NbS Nature-Based Solutions
NCA Northern Central America

NCAR National Center for Atmospheric Research
NCCARF National Climate Change Adaptation Research Facility
NCCRS National Climate Change Response Strategy
NCEI NOAA National Centers for Environmental Information
NCEP NOAA National Centers for Environmental Prediction
NDC Nationally Determined Contributions
NDD number of dry days
NDVI Normalized Difference Vegetation Index
NE Northeast
NEAF North Eastern Africa

NEDO New Energy and Industrial Technology Development Organisation, Japan,
NELD non-economic loss and damage
NEN North-Eastern North America
NEP Net Ecosystem Production
NES North-Eastern South America
NESP National Environmental Science Program
NEU Northern Europe
NEUS European Arctic Waters
NF Near Future
NF3 Nitrogen trifluoride

NFM Natural Flood Manageme	nt
NGFS Network for Greening the	Financial System
NGO Non-Governmental Organ	nisation
NH Northern Hemisphere	
NH3 ammonia	
NH4 ammonium	
NHS National Health Service	
NiCD nickel-cadmium	
NIES National Institute for Envi	ronmental Studies
NILM non-intrusive load monito	oring

Nimby Not in my back yard
NiMH nickel-metal hydride
NIS national innovation system
NIWA National Institute of Water and Air
NL Netherlands
NMAT nighttime marine air temperature
NMHS National Meteorological and Hydrological Services
NMVOC non-methane volatile organic compounds
NO2 nitrogen dioxide
NO3 nitrate

NOAA USA National Oceanic and Atmospheric Administration	
NOAAGIobalTemp NOAA Merged Land Ocea	n Global Surface Temperature Analysis
NorESM Norwegian Earth System	Model
NOx nitrogen oxides	
NPO North Pacific Ocean	
NPP Nuclear Power Plants	
NR Non-Residential	
NRG natural regrowth	
NSA Northern South America	
NSR Northern Sea Route	

NSTT	
North-South technology tra	ansfer and cooperation
NSW	
New South Wales	
_	
NT	
Non-technological	
NTDs	
Neglected Tropical Diseases	5
NTEM	
national transport -energy i	models
NTFPs	
Non-Timber Forest Products	S
NUA	
New Urban Agenda	
NWN	
North-Western North Amer	ica
NWP	
Northwest Passages	
NWS	
Northwestern South Americ	ca

NYCEDC New York City Economic Development Corporation
NYDF New York Declaration on Forests
NZ New Zealand
NZCFSF New Zealand Centre for Sustainable Finance
NZE net zero emissions
NZE scenario Net-Zero Emissions by 2050 (IEA scenario)
NZEB net zero energy building nZEB,nearly zero energy building,
O3 Ozone
OA organic aerosols
OAC ocean albedo change

OAE ocean alkalinity enhancement
OC organic carbon
OCLTT Capacity-Limited Thermal Tolerance
ODA overseas development assistance
ODS ozone-depleting substance
OECD Organisation for Economic Co-operation and Development
OECM Other Effective Area-Based Conservation Measures
OEH Office of Environment and Heritage
OH hydroxyl radical
OHC ocean heat content

OHRLLS

overshoot

United Nations Office of the High Representative for the Least Developed Co Developing Countries and Small Island Developing States	untries, Landlocked
OLR outgoing longwave radiation	
OLS ordinary least squares	
OMI Ozone Monitoring Instrument	
OMIP Ocean Model Intercomparison Project	
OMVS Senegal River Basin Organisation	
OMZ Oxygen Minimum Zones	
OPEC Organization of the Petroleum Exporting Countries	
OPEX operating and maintenance expenditures	
OS	

Convention for the Protection	on of the Marine Environment of the North-East Atl
OSS one-stop shop	
OW The Office of Water —	
P2P peer-to-peer	
PA The Paris Agreement	
PACE Property Assessed Clean En	ergy
PACJA Pan Africa Climate Justice A	lliance
PAGCC Gender and Climate Change	e Action Plans
PAGES 2K Past Global Changes 2k c	consortium
Pas Protected Areas	

PBEs production-based emissions
PC principal component
PCB Polychlorinated Biphenyl
PCCB Paris Committee on Capacity-buildingand Financing Initiative
PCE Parliamentary Commissioner for the Environment
PDB public development bank
PDO Pacific Decadal Oscillation
PDRC People's Democratic Republic of Congo
PDS Public Distribution System
PDSI Palmer Drought Severity Index

PDV Pacific Decadal Variability	
PEFC Programme for the Endorsement of Fores	st Certification
PEMFC proton-exchange membrane fuel cells	
PERSIANN-CDR Precipitation estimations from Remotely te Data Record	Sensed Information using Artificial Neural Networks Clima-
PES Payments for Ecosystem Services	
PET Potential Evapotranspiration	
PETM Paleocene–Eocene Thermal Maximum	
Perfluorocarbon	
PFCs perfluorocarbons	
PgC petagrams of carbon	

PgCeq petagrams of carbon equivalent
PHEV olug-in hybrid electric vehiclepkm,passenger-kilometres,
PICSA Participatory Integrated Climate Services for Agriculture
PIDA African Union's Programme for Infrastructure Development
PIDACC Programmes for Integrated Development and Adaptation to Climate Change
PlioMIP Pliocene Model Intercomparison Project
PM particulate matter
PM10 particulate matter with diameter of less than 10 microns
PM2.5 Particulate matter with diameter of less than 2.5 microns
PMIP Paleoclimate Modelling Intercomparison Project

POA primary organic aerosols	
POC Particulate Organic Carbon	
POMS Pacific Oyster Mortality Syndrome	
POP Persistent Organic Pollutant	
PP primary production	
PPA Power Purchase Agreement	
PPADI Human Development Index, Recently Adjusted to Reflect the Effect of Plane	etary Pressures
PPCA Powering Past Coal Alliance	
PPCR Pilot Program for Climate Resilience	
PPI pulp and paper industry	

PPP purchasing power parity
PRI Principles for Responsible Investment
PSI Principles for Sustainable Insurance
PSNP Productive Safety Net Programme
PSS-78 Practical Salinity Scale 1978
PTSD Post-Traumatic Stress Disorder
PV photovoltaic
PWC Physical Work Capacity
PWLM Participatory Watershed Land-Use Management
QBO quasi-biennial oscillation

QE quantitative easing
QFCI Queensland Floods Commission of Inquiry
QFES Queensland Fire and Emergency Services
QOL Quality of Life
R&D Research and Development
RAR Russian Arctic Region
RAWES Rapid Assessment of Wetland Ecosystem Services
RBNZ Reserve Bank of New Zealand
RCB Remaining Carbon Budget
RCEP Regional Comprehensive Economic Partnership

RCM regional climate model
RCMIP Reduced Complexity Model Intercomparison Project
RCP Representative Concentration Pathway
RCPs Representative Concentration Pathways
RCSA Rwanda Climate Services Programme
RD&D research, development and demonstration,
RDI Research, Development and Innovation,
RDM Robust Decision-Making
RE Renewable Energy
RECC Resource Efficiency and Climate Change

RECC-LED Resource Efficiency and Climate Change-Low Energy Demand (IEA scenario)
REDD Reduction of Emissions From Deforestation and Forest Degradation
REDD+ reducing emissions from deforestation and forest degradation and the role of conservation, sustainable management of forests and enhancement of forest carbon stocks,
REEs rare earth elements
REGEN Rainfall Estimates on a Gridded Network
ReSOLVE Regenerate, Share, Optimise, Loop, Virtualise, Exchange framework,
RF radiative forcing
RFC Reasons for Concern
RFCs Reasons for Concern
RFE Russian Far East

RFMIP Radiative Forcing Model Intercomparison Project
RFMO Regional Fisheries Management Organisation
RGGI Regional Greenhouse Gas Initiative
RH relative humidity
RICH Radiosonde Innovation Composite Homogenization
RIMAP Real-time Integrated Model for probabilistic Assessment of emissions Paths
RIO Rational Impartial Observer
RIS regional innovation systems
RIT Resilient Infrastructure and Technologies
RKR Representative Key Risk

RMB Renminbi
RO radio occultation
ROSES Reporting Standards for Systematic Evidence Syntheses
RRV Ross River Virus
RSD relative standard deviation
RSL relative sea level
RSLR Relative Sea-Level Rise
RSPO Roundtable on Sustainable Palm Oil
RTI Respiratory Tract Infection
RTS Reference Technology Scenario

RVF Rift Valley Fever	
S&L standards and labelling	
SAF sustainable aviation fuel	
SAH Sahara	
SAI stratospheric aerosol inte	rventions
SAIA South African Insurance A	Association
SAIIA South African Institute of	International Affairs
SAM Southern Annular Mode	
SAmerM South American monsoon	n
SAO South Atlantic Ocean	

SAOD stratospheric aerosol optical depth	
SAR Second Assessment Report	
SARF stratospheric-temperature-adjusted radiative forcing	
SARPs Standards and Recommended Practices	
SAS South Asia	
SASB Sustainability Accounting Standards Board	
SAsiaM South and South East Asian monsoon	
SASSCAL Southern African Science Service Centre for Climate Change, Adaptive Lance	d Management
SAT surface air temperature	
SAU Southern Australia	

BSTA ubsidiary Body for Scientific and Technological Advice
SBT cience-based target
ponge City
outhern Central America
ocial cost of carbon
pecial Climate Change Fund
now cover extent
cenarioMIP cenario Model Intercomparison Project
imple climate model
oil carbon sequestration

SD Sustainable Development
SDG Sustainable Development Goals
SDM Species Distribution Model
SDP Sustainable Development Pathway
SDPS shifting development pathways to increased sustainability
SDR Special Drawing Rights
SDS Sustainable Development Scenario (IEA scenario)
SDSN Sustainable Development Solutions Network
SE sustainable entrepreneur
SEA strategic environmental assessment

SEADRIF South East Asian Disaster Risk Insurance Facility
SEAF South Eastern Africa
SEC specific energy consumption
SECA sulphur emission control area
SED Structured Expert Dialogue
SEEA System of Environmental-Economic Accounting
SEEMP Ship Energy Efficiency Management Plan
SEJ Structured Expert Judgement
SEM structural equations modelling
SER Sufficiency, Efficiency, Renewal,

SES Southeast South America
SETAC Society of Environmental Toxicology and Chemistry (UNEP-SETAC)
SETS Social, Ecological and Technological Systems
SEU Southern Europe
SEUS Mediterranean Sea and Black Sea
SF6 sulphur hexafluoride
SH Southern Hemisphere
SHELF Sheffield Elicitation Framework
SI sustainable intensification
SIA sea ice area

SIDS Small Island Developing States
SIE sea ice extent
SIS sectoral innovation system
SITES Sustainable Sites Initiative
SL Slovenia
SLCF short-lived climate forcer
SLE sea level equivalent
SLM sustainable land management
SLP sea level pressure
SLR sea level rise

SLURC Sierra Leone Urban Research Centre
SM Supplementary Material
SMAP Soil Moisture Active Passive
SMART Stormwater Management and Road Tunnel
SMB surface mass balance
SME Small and Medium Enterprises
SMEs small and medium-sized enterprises
SMILE single-model initial-condition large ensemble
SNA System of National Accounts
SNTT South-North technology transfer and cooperation

SO2 sulphur dioxide	
SO4^2- sulphate	
SOA secondary organic aerosols	
SOC Soil Organic Carbon	
SOE state-owned enterprise	
SOFC solid oxide fuel cell	
SOI Southern Oscillation Index	
SOM Soil Organic Matter	
SON September–October–November	
SOO Southern Ocean	

SOx sulphur oxides
SP Social Protection
SPCZ South Pacific Convergence Zone
SPEI Standardized Precipitation Evapotranspiration Index
SPI Standardized Precipitation Index
SPM Summary for Policymakers
SPO South Pacific Ocean or South Pole Observatory
SPP State Planning Policy
SPV special purpose vehicle
SR1.5 Special Report on Global Warming of 1.5°C

SRA Social Responsibility Agreements	
SRCCL Special Report on Climate Change and Land	
SRES Special Report on Emissions Scenarios	
SREX IPCC Special Report on Managing the Risk of Extreme Events and Disasters to a ange Adaptation	Advance Climate Ch-
SRI Sustainable and Responsible Investment	
SRM solar radiation modification	
SROCC Special Report on the Ocean and Cryosphere in a Changing Climate	
SRTM Shuttle Radar Topography Mission	
SSA Southern South America	
SSC South-South cooperation	

SSP Shared Socioeconomic Pathways
SSR Seasonal Severity Rating
SST sea surface temperature
SSTT South-South technology transfer and cooperation
SSW sudden stratospheric warming
STE stratosphere–troposphere exchange
STEM science, technology, engineering and mathematics,
STEPS Stated Policies Scenario
STFM Sustainable Tropical Forest Management
STI Science, Technology and Innovation

Surface Temperature	
SUV sport utility vehicle	
SW shortwave	
SWE snow water equivalent	
SWM Sustainable Water Manag	gement
SWP Soil Water Potential	
SWS South-Western South Am	nerica
SWV stratospheric water vapo	ur
SYR Synthesis Report	
TA territorial accounting	

TABS thermally activated building systems
TAR Third Assessment Report
TAV Tropical Atlantic Variability
TBT Agreement WTO Agreement on Technical Barriers to Trade
TC tropical cyclone
TCBA technology-adjusted consumption-based emission accounting
TCFD Task Force on Climate-related Financial Disclosures
TCR transient climate response
TCRE transient climate response to cumulative
TCs Tropical Cyclones

TCWV total column water vapour
TDR travel demand reduction
TEC Technology Executive Committee
TEEB The Economics of Ecosystems and Biodiversity
TEG CRM Technical Expert Group on Comprehensive Risk Management
TEU Twenty-Foot Container Equivalent Units
TEUS European Temperate Seas
T-FACE Temperature Free-Air Controlled Enhancement
TFC total final energy consumption
TFP Total Factor Productivity

Tg teragrams
TGC tradeable green certificatetkm,tonne-kilometre,
TGCs Tradable Green Certificates
THI Temperature Humidity Index
ThSL thermosteric sea level
TIA Tourism Industry Aotearoa
TIB Tibetan Plateau
TK Traditional Knowledge
TLAS Timber Legality Assurance System
TMNs Transnational Municipal Networks

TMSP Transboundary Marine Spatial Planning
TN Tropical Nights
TNA technology needs assessment
TNn annual minimum daily minimum temperature
TNx annual maximum daily minimum temperature
TOA the net top-of-the-atmosphere
TOD transit-oriented development
ToE time of emergence
TPES total primary energy supply
TPI tripole Index

TRA technology readiness assessment
TrC triangular cooperation
TRIPS Agreement Trade-Related Aspects of Intellectual Property Rights Agreement
TRL technology readiness level
TRMM Tropical Rainfall Measuring Mission
TS Technical Summary
TSI total solar irradiance
TSR Transpolar Sea Route
TSRA Torres Strait Regional Authority
TSU Technical Support Unit

TURFs Territorial Use Rights for Fishing
TW terawatt
TWS Terrestrial Water Storage
TWS-DSI Terrestrial Water Storage-Drought Severity Index
TWWHA Tasmanian Wilderness World Heritage Area
UA Urban Agriculture
UAH University of Alabama in Huntsville
UCDP Uppsala Conflict Data Program
UCLG United Cities and Local Governments
UF utility factor

UHC Universal Health Coverage
UHI urban heat island
UKCCC United Kingdom Climate Change Committee
ULCS ultra-low carbon steel
UN United Nations
UNCCD United Nations Convention to Combat Desertification
UNCRD United Nations Centre for Regional Development
UNDP United Nations Development Programme
UNEP United Nations Environment Programme
UNESCO United Nations Educational, Scientific and Cultural Organization

UNFCCC United Nations Framework Convention on Climate Change
UNHCR United Nations High Commissioner for Refugee
UNICEF United Nations Children's Fund
UNOSSC United Nations Office for South-South Cooperation
UPA Urban and Peri-Urban Agriculture
US DOE United States Department of Energy
US EPA United States Environmental Protection Agency
USAID United States Agency for International Development
USD US dollar
USGS United States Geological Survey

UTLS upper troposphere and lower stratosphere
UV ultraviolet
UVic ESCM University of Victoria Earth System Climate Model
V Vulnerability
V1G controlled charging (of an electric vehicle)
V2G vehicle-to-grid
VaR Value at Risk
VBD Vector-Borne Disease
VC venture capital
VCS Verified Carbon Standard of the Verra programmevkm, vehicle-kilometre,

VF Vertical Farming	
VKT vehicle kilometres travelled	
VLM vertical land motion	
VLR Voluntary Local Review	
VOC volatile organic compounds	
VoCC Velocity of Climate Change	
VOD Vegetation Optical Depth	
VPD vapour pressure deficit	
VSLS very short-lived halogenated spe	ecies
W Western	

WAF Western Africa	
WAfriM West African monsoon	
WAIS West Antarctic Ice Sheet	
WAN West Antarctica	
WASCAL West African Science Service Centre on Climate Change and Adaptive Land	Management
WASH Water, Sanitation and Hygiene	
WBC western boundary current	
WBCSD World Business Council on Sustainable Development	
WBD Waterborne Disease	
WBGT wet bulb globe temperature	

WC	
Walker circulation	
WCA	
West Central Asia	
WCE	
Western Central Europe	
WCRP	
World Climate Research P	Programme
WEF	
World Economic Forum	
World Economic Forum	
WEFN	
water-energy-food nexus	
WEMA	
Water Efficient Maize for A	Africa
-	
WEO	
World Energy Outlook	
WEU	
Western Europe	
-	
WFP	
World Food Programme	

WG Working Group	
WGI Working Group I	
WGII Working Group II	
WGIII Working Group III	
WGWDGD Wet Get Wetter, Dry Get I	Drier
WHO World Health Organization	on
WHP waste heat to power	
WIM Warsaw International Me	chanism
Wm-2 Watts per square meter	
WMGHG well-mixed greenhouse g	gas

WMO World Meteorological Org	ganization
WNA Western North America	
WNF West Nile Fever	
WNP Western North Pacific	
WOA18 World Ocean Atlas 2018	
WRAP Waste and Resources Act	ion Programme
WSAA Water Services Associatio	n of Australia
WSAF West Southern Africa	
WSB Wilkes Subglacial Basin	
WSI Water Scarcity Index	

WSUD Water Sensitive Urban De	sign
WTO World Trade Organization	
WTP willingness to pay	
WTTC World Travel&Tourism Cou	uncil
WTU Water Treatment Unit	
WUE water-use efficiency	
WUI Wildland-Urban Interface	
WWF World Wildlife Fund	
YCS Yield Constraint Score	
YJ yottajoule, 10^24 joules	

YLD	
Years of Life Lived with D	isability
YLL	
Years of Life Lost	
ZEC	
zero emissions commitm	ent
ZEV	
zero emission vehicle	
71	
ZJ	
zettajoule, 10^21 joules	

IPCC Qualifier

ibra- and

low confidence

Each finding is grounded in an evaluation of underlying evidence and agreement. The IPCC calibrated language uses five qualifiers to express a level of confidence (very low, low, medium, high and very high)

medium confidence Each finding is grounded in an evaluation of underlying evidence and agreement. The IPCC calibrated language uses five qualifiers to express a level of confidence (very low, low, medium, high and
very high)
more likely than not >50–100% probability (Indicates the assessed likelihood of an outcome or a result)
unlikely 0–33% probability (Indicates the assessed likelihood of an outcome or a result)
very high confidence Each finding is grounded in an evaluation of underlying evidence and agreement. The IPCC calibrated language uses five qualifiers to express a level of confidence (very low, low, medium, high and very high)
very likely 90–100% probability (Indicates the assessed likelihood of an outcome or a result)
very low confidence Each finding is grounded in an evaluation of underlying evidence and agreement. The IPCC calibrated language uses five qualifiers to express a level of confidence (very low, low, medium, high and very high)
very unlikely 0–10% probability (Indicates the assessed likelihood of an outcome or a result)
virtually certain 99–100% probability (Indicates the assessed likelihood of an outcome or a result)

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Verwandt: APEC, APP	
Unterbegriff von: APEC	
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Realer Schriftsteller
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Kilgore Trout
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Wasser Etwa 70% von dir, mir, Bello und unserem blauen Planeten Status: Entwurf

EPA: Begriffe zum Klimawandel

EPA (US: Environmental Protection Agency)

Name: Glossar der Begriffe zum Klimawandel

Beschreibung: Glossar der auf der EPA-Website zum Klimawandel verwendeten Begriffe.

Veröffentlichende Organisation: Office of Air and Radiation/Office of Atmospheric Protection/Clima-

te Change Division

Letzte Aktualisierung: 9. September 2013

Programm-Website: https://www.epa.gov/climate-research

Terminologieservice: Link

Terms

100-Year Flood Levels

Severe flood levels with a one-in-100 likelihood of occurring in any given year.

Abrupt Climate Change

Sudden (on the order of decades), large changes in some major component of the climate system, with rapid, widespread effects.

Adaptation

Adjustment or preparation of natural or human systems to a new or changing environment which moderates harm or exploits beneficial opportunities.

Adaptive Capacity

The ability of a system to adjust to climate change (including climate variability and extremes) to moderate potential damages, to take advantage of opportunities, or to cope with the consequences.

Aerosols

Small particles or liquid droplets in the atmosphere that can absorb or reflect sunlight depending on their composition.

Afforestation

Planting of new forests on lands that historically have not contained forests.

Albedo

The amount of solar radiation reflected from an object or surface, often expressed as a percentage.

Alternative Energy

Energy derived from nontraditional sources (e.g., compressed natural gas, solar, hydroelectric, wind).

Annex I Countries/Parties

Group of countries included in Annex I (as amended in 1998) to the United Nations Framework Convention on Climate Change, including all the developed countries in the Organization of Economic Co-operation and Development, and economies in transition. By default, the other countries are referred to as Non-Annex I countries. Under Articles 4.2 (a) and 4.2 (b) of the Convention, Annex I countries commit themselves specifically to the aim of returning individually or jointly to their 1990 levels of greenhouse gas emissions by the year 2000.

Anthropogenic

Made by people or resulting from human activities. Usually used in the context of emissions that are produced as a result of human activities.

Atmosphere

The gaseous envelope surrounding the Earth. The dry atmosphere consists almost entirely of nitrogen (78.1% volume mixing ratio) and oxygen (20.9% volume mixing ratio), together with a number of trace gases, such as argon (0.93% volume mixing ratio), helium, radiatively active greenhouse gases such as carbon dioxide (0.035% volume mixing ratio), and ozone. In addition the atmosphere contains water vapor, whose amount is highly variable but typically 1% volume mixing ratio. The atmosphere also contains clouds and aerosols.

Atmospheric Lifetime

Atmospheric lifetime is the average time that a molecule resides in the atmosphere before it is removed by chemical reaction or deposition. In general, if a quantity of a compound is emitted into the atmosphere at a particular time, about 35 percent of that quantity will remain in the atmosphere at the end of the compound's atmospheric lifetime. This fraction will continue to decrease in an exponential way, so that about 15 percent of the quantity will remain at the end of two times the atmospheric lifetime, etc. (Some compounds, most notably carbon dioxide, have more complex lifecycles, and their atmospheric lifetimes are not defined by a simple exponential equation.) Greenhouse gas lifetimes can range from a few years to a few thousand years.

Biofuels

Gas or liquid fuel made from plant material (biomass). Includes wood, wood waste, wood liquors, peat, railroad ties, wood sludge, spent sulfite liquors, agricultural waste, straw, tires, fish oils, tall

oil, sludge waste, waste alcohol, municipal solid waste, landfill gases, other waste, and ethanol blended into motor gasoline.

Biogeochemical Cycle

Movements through the Earth system of key chemical constituents essential to life, such as carbon, nitrogen, oxygen, and phosphorus.

Biomass

Materials that are biological in origin, including organic material (both living and dead) from above and below ground, for example, trees, crops, grasses, tree litter, roots, and animals and animal waste.

Biosphere

The part of the Earth system comprising all ecosystems and living organisms, in the atmosphere, on land (terrestrial biosphere) or in the oceans (marine biosphere), including derived dead organic matter, such as litter, soil organic matter and oceanic detritus.

Black Carbon Aerosol

Black carbon (BC) is the most strongly light-absorbing component of particulate matter (PM), and is formed by the incomplete combustion of fossil fuels, biofuels, and biomass. It is emitted directly into the atmosphere in the form of fine particles (PM2.5).

Borehole

Any exploratory hole drilled into the Earth or ice to gather geophysical data. Climate researchers often take ice core samples, a type of borehole, to predict atmospheric composition in earlier years. See ice core.

Carbon Capture and Sequestration

Carbon capture and sequestration (CCS) is a set of technologies that can greatly reduce carbon dioxide emissions from new and existing coal- and gas-fired power plants, industrial processes, and other stationary sources of carbon dioxide. It is a three-step process that includes capture of carbon dioxide from power plants or industrial sources; transport of the captured and compressed carbon dioxide (usually in pipelines); and underground injection and geologic sequestration, or permanent storage, of that carbon dioxide in rock formations that contain tiny openings or pores that trap and hold the carbon dioxide.

CCS

Carbon Cycle

All parts (reservoirs) and fluxes of carbon. The cycle is usually thought of as four main reservoirs of carbon interconnected by pathways of exchange. The reservoirs are the atmosphere, terrestrial biosphere (usually includes freshwater systems), oceans, and sediments (includes fossil fuels). The annual movements of carbon, the carbon exchanges between reservoirs, occur because of various chemical, physical, geological, and biological processes. The ocean contains the largest pool of

carbon near the surface of the Earth, but most of that pool is not involved with rapid exchange with the atmosphere.

Carbon Dioxide

A naturally occurring gas, and also a by-product of burning fossil fuels and biomass, as well as landuse changes and other industrial processes. It is the principal human caused greenhouse gas that affects the Earth's radiative balance. It is the reference gas against which other greenhouse gases are measured and therefore has a Global Warming Potential of 1. See climate change and global warming.

Carbon Dioxide Equivalent

A metric measure used to compare the emissions from various greenhouse gases based upon their global warming potential (GWP). Carbon dioxide equivalents are commonly expressed as "million metric tons of carbon dioxide equivalents (MMTCO₂Eq)." The carbon dioxide equivalent for a gas is derived by multiplying the tons of the gas by the associated GWP. MMTCO₂Eq = (million metric tons of a gas) * (GWP of the gas) See greenhouse gas, global warming potential, metric ton.

Carbon Dioxide Fertilization

The enhancement of the growth of plants as a result of increased atmospheric CO_2 concentration. Depending on their mechanism of photosynthesis, certain types of plants are more sensitive to changes in atmospheric CO_2 concentration.

Carbon Footprint

The total amount of greenhouse gases that are emitted into the atmosphere each year by a person, family, building, organization, or company. A persons carbon footprint includes greenhouse gas emissions from fuel that an individual burns directly, such as by heating a home or riding in a car. It also includes greenhouse gases that come from producing the goods or services that the individual uses, including emissions from power plants that make electricity, factories that make products, and landfills where trash gets sent.

Carbon Sequestration

Terrestrial, or biologic, carbon sequestration is the process by which trees and plants absorb carbon dioxide, release the oxygen, and store the carbon. Geologic sequestration is one step in the process of carbon capture and sequestration (CCS), and involves injecting carbon dioxide deep underground where it stays permanently.

Chlorofluorocarbons

Gases covered under the 1987 Montreal Protocol and used for refrigeration, air conditioning, packaging, insulation, solvents, or aerosol propellants. Since they are not destroyed in the lower atmosphere, CFCs drift into the upper atmosphere where, given suitable conditions, they break down ozone. These gases are being replaced by other compounds: hydrochlorofluorocarbons, an interim replacement for CFCs that are also covered under the Montreal Protocol, and hydrofluorocarbons, which are covered under the Kyoto Protocol. All these substances are also greenhouse gases. See hydrochlorofluorocarbons, hydrofluorocarbons, perfluorocarbons, ozone depleting substance.

Climate

Climate in a narrow sense is usually defined as the "average weather," or more rigorously, as the statistical description in terms of the mean and variability of relevant quantities over a period of time ranging from months to thousands of years. The classical period is 3 decades, as defined by the World Meteorological Organization (WMO). These quantities are most often surface variables such as temperature, precipitation, and wind. Climate in a wider sense is the state, including a statistical description, of the climate system. See weather.

Climate Change

Climate change refers to any significant change in the measures of climate lasting for an extended period of time. In other words, climate change includes major changes in temperature, precipitation, or wind patterns, among others, that occur over several decades or longer.

Climate Feedback

A process that acts to amplify or reduce direct warming or cooling effects.

Climate Lag

The delay that occurs in climate change as a result of some factor that changes only very slowly. For example, the effects of releasing more carbon dioxide into the atmosphere occur gradually over time because the ocean takes a long time to warm up in response to a change in radiation. See climate, climate change.

Climate Model

A quantitative way of representing the interactions of the atmosphere, oceans, land surface, and ice. Models can range from relatively simple to quite comprehensive. See General Circulation Model.

Climate Sensitivity

In Intergovernmental Panel on Climate Change (IPCC) reports, equilibrium climate sensitivity refers to the equilibrium change in global mean surface temperature following a doubling of the atmospheric (equivalent) CO_2 concentration. More generally, equilibrium climate sensitivity refers to the equilibrium change in surface air temperature following a unit change in radiative forcing (degrees Celsius, per watts per square meter, °C/Wm-2). One method of evaluating the equilibrium climate sensitivity requires very long simulations with Coupled General Circulation Models (Climate model). The effective climate sensitivity is a related measure that circumvents this requirement. It is evaluated from model output for evolving non-equilibrium conditions. It is a measure of the strengths of the feedbacks at a particular time and may vary with forcing history and climate state. See climate, radiative forcing.

Climate System

The five physical components (atmosphere, hydrosphere, cryosphere, lithosphere, and biosphere) that are responsible for the climate and its variations.

Co-Benefit

The benefits of policies that are implemented for various reasons at the same time including climate change mitigation acknowledging that most policies designed to address greenhouse gas mitigation also have other, often at least equally important, rationales (e.g., related to objectives of development, sustainability, and equity).

Coal Mine Methane

Coal mine methane is the subset of coalbed methane that is released from the coal seams during the process of coal mining. For more information, visit the Coalbed Methane Outreach program site [http://www.epa.gov/cmop/].

Coalbed Methane

Coalbed methane is methane contained in coal seams, and is often referred to as virgin coalbed methane, or coal seam gas. For more information, visit the Coalbed Methane Outreach program site [http://www.epa.gov/cmop/].

Concentration

Amount of a chemical in a particular volume or weight of air, water, soil, or other medium. See parts per billion, parts per million.

Conference of the Parties

The supreme body of the United Nations Framework Convention on Climate Change (UNFCCC). It comprises more than 180 nations that have ratified the Convention. Its first session was held in Berlin, Germany, in 1995 and it is expected to continue meeting on a yearly basis. The COP's role is to promote and review the implementation of the Convention. It will periodically review existing commitments in light of the Convention's objective, new scientific findings, and the effectiveness of national climate change programs. See United Nations Framework Convention on Climate Change.

Coral Bleaching

The process in which a coral colony, under environmental stress expels the microscopic algae (zooxanthellae) that live in symbiosis with their host organisms (polyps). The affected coral colony appears whitened.

Cryosphere

One of the interrelated components of the Earth's system, the cryosphere is frozen water in the form of snow, permanently frozen ground (permafrost), floating ice, and glaciers. Fluctuations in the volume of the cryosphere cause changes in ocean sea level, which directly impact the atmosphere and biosphere.

Deforestation

Those practices or processes that result in the conversion of forested lands for non-forest uses. Deforestation contributes to increasing carbon dioxide concentrations for two reasons: 1) the burning

or decomposition of the wood releases carbon dioxide; and 2) trees that once removed carbon dioxide from the atmosphere in the process of photosynthesis are no longer present.

Desertification

Land degradation in arid, semi-arid, and dry sub-humid areas resulting from various factors, including climatic variations and human activities. Further, the UNCCD (The United Nations Convention to Combat Desertification) defines land degradation as a reduction or loss, in arid, semi-arid, and dry sub-humid areas, of the biological or economic productivity and complexity of rain-fed cropland, irrigated cropland, or range, pasture, forest, and woodlands resulting from land uses or from a process or combination of processes, including processes arising from human activities and habitation patterns, such as: (i) soil erosion caused by wind and/or water; (ii) deterioration of the physical, chemical and biological or economic properties of soil; and (iii) long-term loss of natural vegetation. Conversion of forest to non-forest.

Dryland Farming

A technique that uses soil moisture conservation and seed selection to optimize production under dry conditions.

Earth System

Eccentricity

The extent to which the Earth's orbit around the Sun departs from a perfect circle.

Ecosystem

Any natural unit or entity including living and non-living parts that interact to produce a stable system through cyclic exchange of materials.

El Niño - Southern Oscillation

El Niño, in its original sense, is a warm water current that periodically flows along the coast of Ecuador and Peru, disrupting the local fishery. This oceanic event is associated with a fluctuation of the intertropical surface pressure pattern and circulation in the Indian and Pacific Oceans, called the Southern Oscillation. This coupled atmosphere-ocean phenomenon is collectively known as El Niño-Southern Oscillation. During an El Niño event, the prevailing trade winds weaken and the equatorial countercurrent strengthens, causing warm surface waters in the Indonesian area to flow eastward to overlie the cold waters of the Peru current. This event has great impact on the wind, sea surface temperature, and precipitation patterns in the tropical Pacific. It has climatic effects throughout the Pacific region and in many other parts of the world. The opposite of an El Niño event is called La Niña.

ENSO

Emissions

The release of a substance (usually a gas when referring to the subject of climate change) into the atmosphere.

Emissions Factor

A unique value for scaling emissions to activity data in terms of a standard rate of emissions per unit of activity (e.g., grams of carbon dioxide emitted per barrel of fossil fuel consumed, or per pound of product produced).

Energy Efficiency

Using less energy to provide the same service.

Energy Star

A U.S. Environmental Protection Agency voluntary program that helps businesses and individuals save money and protect our climate through superior energy efficiency. Learn more about ENERGY STAR (http://www.energystar.gov/index.cfm?c=about.ab_index).

Enhanced Greenhouse Effect

The concept that the natural greenhouse effect has been enhanced by increased atmospheric concentrations of greenhouse gases (such as CO_2 and methane) emitted as a result of human activities. These added greenhouse gases cause the earth to warm. See greenhouse effect.

Enteric Fermentation

Livestock, especially cattle, produce methane as part of their digestion. This process is called enteric fermentation, and it represents one third of the emissions from the agriculture sector.

Evaporation

The process by which water changes from a liquid to a gas or vapor.

Evapotranspiration

The combined process of evaporation from the Earth's surface and transpiration from vegetation.

Feedback Mechanisms

Factors which increase or amplify (positive feedback) or decrease (negative feedback) the rate of a process. An example of positive climatic feedback is the ice-albedo feedback. See climate feedback.

Fluorinated Gases

Powerful synthetic greenhouse gases such as hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride that are emitted from a variety of industrial processes. Fluorinated gases are sometimes used as substitutes for stratospheric ozone-depleting substances (e.g., chlorofluorocarbons, hydrochlorofluorocarbons, and halons) and are often used in coolants, foaming agents, fire extinguishers, solvents, pesticides, and aerosol propellants. These gases are emitted in small quantities compared to carbon dioxide (CO_2), methane (CH_4), or nitrous oxide (N_2O), but because they are potent greenhouse gases, they are sometimes referred to as High Global Warming Potential gases (High GWP gasesM).

Fluorocarbons

Carbon-fluorine compounds that often contain other elements such as hydrogen, chlorine, or bromine. Common fluorocarbons include chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs), hydrofluorocarbons (HFCs), and perfluorocarbons (PFCs). See chlorofluorocarbons, hydrochlorofluorocarbons, perfluorocarbons, ozone depleting substance.

Forcing Mechanism

A process that alters the energy balance of the climate system, i.e. changes the relative balance between incoming solar radiation and outgoing infrared radiation from Earth. Such mechanisms include changes in solar irradiance, volcanic eruptions, and enhancement of the natural greenhouse effect by emissions of greenhouse gases. See radiation, infrared radiation, radiative forcing.

Fossil Fuel

A general term for organic materials formed from decayed plants and animals that have been converted to crude oil, coal, natural gas, or heavy oils by exposure to heat and pressure in the earth's crust over hundreds of millions of years.

Fuel Switching

In general, this is substituting one type of fuel for another. In the climate-change discussion it is implicit that the substituted fuel produces lower carbon emissions per unit energy produced than the original fuel, e.g., natural gas for coal.

General Circulation Model

A global, three-dimensional computer model of the climate system which can be used to simulate human-induced climate change. GCMs are highly complex and they represent the effects of such factors as reflective and absorptive properties of atmospheric water vapor, greenhouse gas concentrations, clouds, annual and daily solar heating, ocean temperatures and ice boundaries. The most recent GCMs include global representations of the atmosphere, oceans, and land surface. See climate modeling.

GCM

Geosphere

The soils, sediments, and rock layers of the Earth's crust, both continental and beneath the ocean floors.

Glacier

A multi-year surplus accumulation of snowfall in excess of snowmelt on land and resulting in a mass of ice at least 0.1 km2 in area that shows some evidence of movement in response to gravity. A glacier may terminate on land or in water. Glacier ice is the largest reservoir of fresh water on Earth, and second only to the oceans as the largest reservoir of total water. Glaciers are found on every continent except Australia.

Global Average Temperature

An estimate of Earth's mean surface air temperature averaged over the entire planet.

Global Warming

The recent and ongoing global average increase in temperature near the Earth's surface.

Global Warming Potential

A measure of the total energy that a gas absorbs over a particular period of time (usually 100 years), compared to carbon dioxide.

Greenhouse Effect

Trapping and build-up of heat in the atmosphere (troposphere) near the Earth's surface. Some of the heat flowing back toward space from the Earth's surface is absorbed by water vapor, carbon dioxide, ozone, and several other gases in the atmosphere and then reradiated back toward the Earth's surface. If the atmospheric concentrations of these greenhouse gases rise, the average temperature of the lower atmosphere will gradually increase. See greenhouse gas, anthropogenic, climate, global warming.

Greenhouse Gas

Any gas that absorbs infrared radiation in the atmosphere. Greenhouse gases include, carbon dioxide, methane, nitrous oxide, ozone, chlorofluorocarbons, hydrochlorofluorocarbons, hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride.

GHG

Habitat Fragmentation

A process during which larger areas of habitat are broken into a number of smaller patches of smaller total area, isolated from each other by a matrix of habitats unlike the original habitat. (Fahrig 2003 [http://www.fs.usda.gov/r1])

Halocarbons

Compounds containing either chlorine, bromine or fluorine and carbon. Such compounds can act as powerful greenhouse gases in the atmosphere. The chlorine and bromine containing halocarbons are also involved in the depletion of the ozone layer.

Heat Island

An urban area characterized by temperatures higher than those of the surrounding non-urban area. As urban areas develop, buildings, roads, and other infrastructure replace open land and vegetation. These surfaces absorb more solar energy, which can create higher temperatures in urban areas.

Heat Waves

A prolonged period of excessive heat, often combined with excessive humidity.

Hydrocarbons

Substances containing only hydrogen and carbon. Fossil fuels are made up of hydrocarbons.

Hydrochlorofluorocarbons

Compounds containing hydrogen, fluorine, chlorine, and carbon atoms. Although ozone depleting substances, they are less potent at destroying stratospheric ozone than chlorofluorocarbons (CFCs). They have been introduced as temporary replacements for CFCs and are also greenhouse gases. See ozone depleting substance.

HCFCs

Hydrofluorocarbons

Compounds containing only hydrogen, fluorine, and carbon atoms. They were introduced as alternatives to ozone depleting substances in serving many industrial, commercial, and personal needs. HFCs are emitted as by-products of industrial processes and are also used in manufacturing. They do not significantly deplete the stratospheric ozone layer, but they are powerful greenhouse gases with global warming potentials ranging from 140 (HFC-152a) to 11,700 (HFC-23).

HFCs

Hydrologic Cycle

The process of evaporation, vertical and horizontal transport of vapor, condensation, precipitation, and the flow of water from continents to oceans. It is a major factor in determining climate through its influence on surface vegetation, the clouds, snow and ice, and soil moisture. The hydrologic cycle is responsible for 25 to 30 percent of the mid-latitudes' heat transport from the equatorial to polar regions.

Hydrosphere

The component of the climate system comprising liquid surface and subterranean water, such as: oceans, seas, rivers, fresh water lakes, underground water etc.

Ice Core

A cylindrical section of ice removed from a glacier or an ice sheet in order to study climate patterns of the past. By performing chemical analyses on the air trapped in the ice, scientists can estimate the percentage of carbon dioxide and other trace gases in the atmosphere at a given time. Analysis of the ice itself can give some indication of historic temperatures.

Indirect Emissions

Indirect emissions from a building, home or business are those emissions of greenhouse gases that occur as a result of the generation of electricity used in that building. These emissions are called "indirect" because the actual emissions occur at the power plant which generates the electricity, not at the building using the electricity.

Industrial Revolution

A period of rapid industrial growth with far-reaching social and economic consequences, beginning in England during the second half of the 18th century and spreading to Europe and later to other countries including the United States. The industrial revolution marks the beginning of a strong increase in combustion of fossil fuels and related emissions of carbon dioxide.

Infrared Radiation

Infrared radiation consists of light whose wavelength is longer than the red color in the visible part of the spectrum, but shorter than microwave radiation. Infrared radiation can be perceived as heat. The Earth's surface, the atmosphere, and clouds all emit infrared radiation, which is also known as terrestrial or long-wave radiation. In contrast, solar radiation is mainly short-wave radiation because of the temperature of the Sun. See radiation, greenhouse effect, enhanced greenhouse effect, global warming.

Intergovernmental Panel on Climate Change

The IPCC was established jointly by the United Nations Environment Programme and the World Meteorological Organization in 1988. The purpose of the IPCC is to assess information in the scientific and technical literature related to all significant components of the issue of climate change. The IPCC draws upon hundreds of the world's expert scientists as authors and thousands as expert reviewers. Leading experts on climate change and environmental, social, and economic sciences from some 60 nations have helped the IPCC to prepare periodic assessments of the scientific underpinnings for understanding global climate change and its consequences. With its capacity for reporting on climate change, its consequences, and the viability of adaptation and mitigation measures, the IPCC is also looked to as the official advisory body to the world's governments on the state of the science of the climate change issue. For example, the IPCC organized the development of internationally accepted methods for conducting national greenhouse gas emission inventories. IPCC

Inundation

The submergence of land by water, particularly in a coastal setting.

Landfill

Land waste disposal site in which waste is generally spread in thin layers, compacted, and covered with a fresh layer of soil each day.

Latitude

The location north or south in reference to the equator, which is designated at zero (0) degrees. Lines of latitude are parallel to the equator and circle the globe. The North and South poles are at 90 degrees North and South latitude.

Least Developed Country

A country with low indicators of socioeconomic development and human resources, as well as economic vulnerability, as determined by the United Nations.

Longwave Radiation

Radiation emitted in the spectral wavelength greater than about 4 micrometers, corresponding to the radiation emitted from the Earth and atmosphere. It is sometimes referred to as 'terrestrial radiation' or 'infrared radiation,' although somewhat imprecisely. See infrared radiation.

Megacities

Cities with populations over 10 million.

Methane

A hydrocarbon that is a greenhouse gas with a global warming potential most recently estimated at 25 times that of carbon dioxide (CO_2). Methane is produced through anaerobic (without oxygen) decomposition of waste in landfills, animal digestion, decomposition of animal wastes, production and distribution of natural gas and petroleum, coal production, and incomplete fossil fuel combustion. The GWP is from the IPCC's Fourth Assessment Report (AR4). For more information visit EPA's Methane site [https://www3.epa.gov/climatechange/ghgemissions/gases/ch4.html]. CH_4

Metric Ton

Common international measurement for the quantity of greenhouse gas emissions. A metric ton is equal to 2205 lbs or 1.1 short tons. See short ton.

Mitigation

A human intervention to reduce the human impact on the climate system; it includes strategies to reduce greenhouse gas sources and emissions and enhancing greenhouse gas sinks.

Mount Pinatubo

A volcano in the Philippine Islands that erupted in 1991. The eruption of Mount Pinatubo ejected enough particulate and sulfate aerosol matter into the atmosphere to block some of the incoming solar radiation from reaching Earth's atmosphere. This effectively cooled the planet from 1992 to 1994, masking the warming that had been occurring for most of the 1980s and 1990s.

Municipal Solid Waste

Residential solid waste and some non-hazardous commercial, institutional, and industrial wastes. This material is generally sent to municipal landfills for disposal. See landfill.

MSW

Natural Gas

Underground deposits of gases consisting of 50 to 90 percent methane (CH_4) and small amounts of heavier gaseous hydrocarbon compounds such as propane (C3H8) and butane (C4H10).

Natural Variability

Variations in the mean state and other statistics (such as standard deviations or statistics of extremes) of the climate on all time and space scales beyond that of individual weather events. Natural

variations in climate over time are caused by internal processes of the climate system, such as El Niño, as well as changes in external influences, such as volcanic activity and variations in the output of the sun.

Nitrogen Cycle

The natural circulation of nitrogen among the atmosphere, plants, animals, and microorganisms that live in soil and water. Nitrogen takes on a variety of chemical forms throughout the nitrogen cycle, including nitrous oxide (N2O) and nitrogen oxides (NOx).

Nitrogen Oxides

Gases consisting of one molecule of nitrogen and varying numbers of oxygen molecules. Nitrogen oxides are produced in the emissions of vehicle exhausts and from power stations. In the atmosphere, nitrogen oxides can contribute to formation of photochemical ozone (smog), can impair visibility, and have health consequences; they are thus considered pollutants.

Nitrous Oxide

NOx

A powerful greenhouse gas with a global warming potential of 298 times that of carbon dioxide (CO_2) . Major sources of nitrous oxide include soil cultivation practices, especially the use of commercial and organic fertilizers, fossil fuel combustion, nitric acid production, and biomass burning. The GWP is from the IPCC's Fourth Assessment Report (AR4). Natural emissions of N_2O are mainly from bacteria breaking down nitrogen in soils and the oceans. Nitrous oxide is mainly removed from the atmosphere through destruction in the stratosphere by ultraviolet radiation and associated chemical reactions, but it can also be consumed by certain types of bacteria in soils. N_2O

Non-Methane Volatile Organic Compounds

Organic compounds, other than methane, that participate in atmospheric photochemical reactions.

NMVOCs

Ocean Acidification

Increased concentrations of carbon dioxide in sea water causing a measurable increase in acidity (i.e., a reduction in ocean pH). This may lead to reduced calcification rates of calcifying organisms such as corals, mollusks, algae and crustaceans.

Oxidize

To chemically transform a substance by combining it with oxygen.

Ozone

Ozone, the triatomic form of oxygen (O_3) , is a gaseous atmospheric constituent. In the troposphere, it is created by photochemical reactions involving gases resulting both from natural sources and from human activities (photochemical smog). In high concentrations, tropospheric ozone can be

harmful to a wide range of living organisms. Tropospheric ozone acts as a greenhouse gas. In the stratosphere, ozone is created by the interaction between solar ultraviolet radiation and molecular oxygen (O2). Stratospheric ozone plays a decisive role in the stratospheric radiative balance. Depletion of stratospheric ozone, due to chemical reactions that may be enhanced by climate change, results in an increased ground-level flux of ultraviolet (UV-) B radiation. See atmosphere, ultraviolet radiation.

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Ozone Depleting Substance

A family of man-made compounds that includes, but are not limited to, chlorofluorocarbons (CFCs), bromofluorocarbons (halons), methyl chloroform, carbon tetrachloride, methyl bromide, and hydrochlorofluorocarbons (HCFCs). These compounds have been shown to deplete stratospheric ozone, and therefore are typically referred to as ODSs. See ozone.

ODS

Ozone Layer

The layer of ozone that begins approximately 15 km above Earth and thins to an almost negligible amount at about 50 km, shields the Earth from harmful ultraviolet radiation from the sun. The highest natural concentration of ozone (approximately 10 parts per million by volume) occurs in the stratosphere at approximately 25 km above Earth. The stratospheric ozone concentration changes throughout the year as stratospheric circulation changes with the seasons. Natural events such as volcanoes and solar flares can produce changes in ozone concentration, but man-made changes are of the greatest concern. See stratosphere, ultraviolet radiation.

Ozone Precursors

Chemical compounds, such as carbon monoxide, methane, non-methane hydrocarbons, and nitrogen oxides, which in the presence of solar radiation react with other chemical compounds to form ozone, mainly in the troposphere. See troposphere.

Particulate matter

Very small pieces of solid or liquid matter such as particles of soot, dust, fumes, mists or aerosols. The physical characteristics of particles, and how they combine with other particles, are part of the feedback mechanisms of the atmosphere. See aerosol, sulfate aerosols.

PM

Parts Per Billion

Number of parts of a chemical found in one billion parts of a particular gas, liquid, or solid mixture. See concentration.

ppb

Parts Per Million by Volume

Number of parts of a chemical found in one million parts of a particular gas, liquid, or solid. See concentration.

ppmv

Parts Per Trillion

Number of parts of a chemical found in one trillion parts of a particular gas, liquid or solid. See concentration.

ppt

Perfluorocarbons

A group of chemicals composed of carbon and fluorine only. These chemicals (predominantly CF4 and C2F6) were introduced as alternatives, along with hydrofluorocarbons, to the ozone depleting substances. In addition, PFCs are emitted as by-products of industrial processes and are also used in manufacturing. PFCs do not harm the stratospheric ozone layer, but they are powerful greenhouse gases: CF4 has a global warming potential (GWP) of 7,390 and C2F6 has a GWP of 12,200. The GWP is from the IPCC's Fourth Assessment Report (AR4). These chemicals are predominantly human-made, though there is a small natural source of CF4. See ozone depleting substance.

Permafrost

Perennially (continually) frozen ground that occurs where the temperature remains below 0°C for several years.

PFCs

Phenology

The timing of natural events, such as flower blooms and animal migration, which is influenced by changes in climate. Phenology is the study of such important seasonal events. Phenological events are influenced by a combination of climate factors, including light, temperature, rainfall, and humidity.

Photosynthesis

The process by which plants take CO_2 from the air (or bicarbonate in water) to build carbohydrates, releasing O2 in the process. There are several pathways of photosynthesis with different responses to atmospheric CO_2 concentrations. See carbon sequestration, carbon dioxide fertilization.

Precession

The wobble over thousands of years of the tilt of the Earth's axis with respect to the plane of the solar system.

Radiation

Energy transfer in the form of electromagnetic waves or particles that release energy when absorbed by an object. See ultraviolet radiation, infrared radiation, solar radiation, longwave radiation.

Radiative Forcing

A measure of the influence of a particular factor (e.g. greenhouse gas (GHG), aerosol, or land use change) on the net change in the Earth's energy balance.

Recycling

Collecting and reprocessing a resource so it can be used again. An example is collecting aluminum cans, melting them down, and using the aluminum to make new cans or other aluminum products.

Reflectivity

The ability of a surface material to reflect sunlight including the visible, infrared, and ultraviolet wavelengths.

Reforestation

Planting of forests on lands that have previously contained forests but that have been converted to some other use.

Relative Sea Level Rise

The increase in ocean water levels at a specific location, taking into account both global sea level rise and local factors, such as local subsidence and uplift. Relative sea level rise is measured with respect to a specified vertical datum relative to the land, which may also be changing elevation over time.

Renewable Energy

Energy resources that are naturally replenishing such as biomass, hydro, geothermal, solar, wind, ocean thermal, wave action, and tidal action.

Residence Time

The average time spent in a reservoir by an individual atom or molecule. With respect to greenhouse gases, residence time refers to how long on average a particular molecule remains in the atmosphere. For most gases other than methane and carbon dioxide, the residence time is approximately equal to the atmospheric lifetime.

Resilience

A capability to anticipate, prepare for, respond to, and recover from significant multi-hazard threats with minimum damage to social well-being, the economy, and the environment.

Respiration

The process whereby living organisms convert organic matter to CO2, releasing energy and consuming O2.

Salt Water Intrusion

Displacement of fresh or ground water by the advance of salt water due to its greater density, usually in coastal and estuarine areas.

Scenarios

A plausible and often simplified description of how the future may develop based on a coherent and internally consistent set of assumptions about driving forces and key relationships.

Sea Surface Temperature

The temperature in the top several feet of the ocean, measured by ships, buoys and drifters.

Sensitivity

The degree to which a system is affected, either adversely or beneficially, by climate variability or change. The effect may be direct (e.g., a change in crop yield in response to a change in the mean, range or variability of temperature) or indirect (e.g., damages caused by an increase in the frequency of coastal flooding due to sea level rise).

Short Ton

Common measurement for a ton in the United States. A short ton is equal to 2,000 lbs or 0.907 metric tons. See metric ton.

Sink

Any process, activity or mechanism which removes a greenhouse gas, an aerosol or a precursor of a greenhouse gas or aerosol from the atmosphere.

Snowpack

A seasonal accumulation of slow-melting snow.

Soil Carbon

A major component of the terrestrial biosphere pool in the carbon cycle. The amount of carbon in the soil is a function of the historical vegetative cover and productivity, which in turn is dependent in part upon climatic variables.

Solar Radiation

Radiation emitted by the Sun. It is also referred to as short-wave radiation. Solar radiation has a distinctive range of wavelengths (spectrum) determined by the temperature of the Sun. See ultraviolet radiation, infrared radiation, radiation.

Storm Surge

An abnormal rise in sea level accompanying a hurricane or other intense storm, whose height is the difference between the observed level of the sea surface and the level that would have occurred in the absence of the cyclone.

Stratosphere

Region of the atmosphere between the troposphere and mesosphere, having a lower boundary of approximately 8 km at the poles to 15 km at the equator and an upper boundary of approximately 50 km. Depending upon latitude and season, the temperature in the lower stratosphere can increase, be isothermal, or even decrease with altitude, but the temperature in the upper stratosphere generally increases with height due to absorption of solar radiation by ozone.

Stratospheric Ozone

See ozone layer.

Streamflow

The volume of water that moves over a designated point over a fixed period of time. It is often expressed as cubic feet per second (ft3/sec).

Subsiding/Subsidence

The downward settling of the Earth's crust relative to its surroundings.

Sulfate Aerosols

Particulate matter that consists of compounds of sulfur formed by the interaction of sulfur dioxide and sulfur trioxide with other compounds in the atmosphere. Sulfate aerosols are injected into the atmosphere from the combustion of fossil fuels and the eruption of volcanoes like Mt. Pinatubo. Sulfate aerosols can lower the Earth's temperature by reflecting away solar radiation (negative radiative forcing). General Circulation Models which incorporate the effects of sulfate aerosols more accurately predict global temperature variations. See particulate matter, aerosol, General Circulation Models.

Sulfur Hexafluoride

A colorless gas soluble in alcohol and ether, slightly soluble in water. A very powerful greenhouse gas used primarily in electrical transmission and distribution systems and as a dielectric in electronics. The global warming potential of SF6 is 22,800. This GWP is from the IPCC's Fourth Assessment Report (AR4). See Global Warming Potential.

SF6

Teragram

1 trillion (1012) grams = 1 million (106) metric tons.

Thermal Expansion

The increase in volume (and decrease in density) that results from warming water. A warming of the ocean leads to an expansion of the ocean volume, which leads to an increase in sea level.

Thermohaline Circulation

Large-scale density-driven circulation in the ocean, caused by differences in temperature and salinity. In the North Atlantic the thermohaline circulation consists of warm surface water flowing northward and cold deep water flowing southward, resulting in a net poleward transport of heat. The surface water sinks in highly restricted sinking regions located in high latitudes.

Trace Gas

Any one of the less common gases found in the Earth's atmosphere. Nitrogen, oxygen, and argon make up more than 99 percent of the Earth's atmosphere. Other gases, such as carbon dioxide, water vapor, methane, oxides of nitrogen, ozone, and ammonia, are considered trace gases. Alt-

hough relatively unimportant in terms of their absolute volume, they have significant effects on the Earth's weather and climate.

Troposphere

The lowest part of the atmosphere from the surface to about 10 km in altitude in mid-latitudes (ranging from 9 km in high latitudes to 16 km in the tropics on average) where clouds and "weather" phenomena occur. In the troposphere temperatures generally decrease with height. See ozone precursors, stratosphere, atmosphere.

Tropospheric Ozone

See ozone.

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Tropospheric Ozone Precursors

See ozone precursors.

Tundra

A treeless, level, or gently undulating plain characteristic of the Arctic and sub-Arctic regions characterized by low temperatures and short growing seasons.

Ultraviolet Radiation

The energy range just beyond the violet end of the visible spectrum. Although ultraviolet radiation constitutes only about 5 percent of the total energy emitted from the sun, it is the major energy source for the stratosphere and mesosphere, playing a dominant role in both energy balance and chemical composition. Most ultraviolet radiation is blocked by Earth's atmosphere, but some solar ultraviolet penetrates and aids in plant photosynthesis and helps produce vitamin D in humans. Too much ultraviolet radiation can burn the skin, cause skin cancer and cataracts, and damage vegetation.

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United Nations Framework Convention on Climate Change

The Convention on Climate Change sets an overall framework for intergovernmental efforts to tack-le the challenge posed by climate change. It recognizes that the climate system is a shared resource whose stability can be affected by industrial and other emissions of carbon dioxide and other greenhouse gases. The Convention enjoys near universal membership, with 189 countries having ratified. Under the Convention, governments: (1) gather and share information on greenhouse gas emissions, national policies and best practices. (2) launch national strategies for addressing greenhouse gas emissions and adapting to expected impacts, including the provision of financial and technological support to developing countries. (3) cooperate in preparing for adaptation to the impacts of climate change. The Convention entered into force on 21 March 1994.

UNFCCC

Vulnerability

The degree to which a system is susceptible to, or unable to cope with, adverse effects of climate change, including climate variability and extremes. Vulnerability is a function of the character, magnitude, and rate of climate variation to which a system is exposed; its sensitivity; and its adaptive capacity.

Wastewater

Water that has been used and contains dissolved or suspended waste materials.

Water Vapor

The most abundant greenhouse gas, it is the water present in the atmosphere in gaseous form. Water vapor is an important part of the natural greenhouse effect. While humans are not significantly increasing its concentration through direct emissions, it contributes to the enhanced greenhouse effect because the warming influence of greenhouse gases leads to a positive water vapor feedback. In addition to its role as a natural greenhouse gas, water vapor also affects the temperature of the planet because clouds form when excess water vapor in the atmosphere condenses to form ice and water droplets and precipitation. See greenhouse gas.

Weather

Atmospheric condition at any given time or place. It is measured in terms of such things as wind, temperature, humidity, atmospheric pressure, cloudiness, and precipitation. In most places, weather can change from hour-to-hour, day-to-day, and season-to-season. Climate in a narrow sense is usually defined as the "average weather", or more rigorously, as the statistical description in terms of the mean and variability of relevant quantities over a period of time ranging from months to thousands or millions of years. The classical period is 30 years, as defined by the World Meteorological Organization (WMO). These quantities are most often surface variables such as temperature, precipitation, and wind. Climate in a wider sense is the state, including a statistical description, of the climate system. A simple way of remembering the difference is that climate is what you expect (e.g. cold winters) and 'weather' is what you get (e.g. a blizzard). See climate.

Glossare

Co-Site - Eingabeformular

Demonstration der Verwendung eines Eingabe- und Bearbeitungsformulars für die Pflege und Speicherung von Glossaren als Linked Open Data.

Begriffe zum Klimawandel: EPA

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