

Die erste systematische geologische Karte

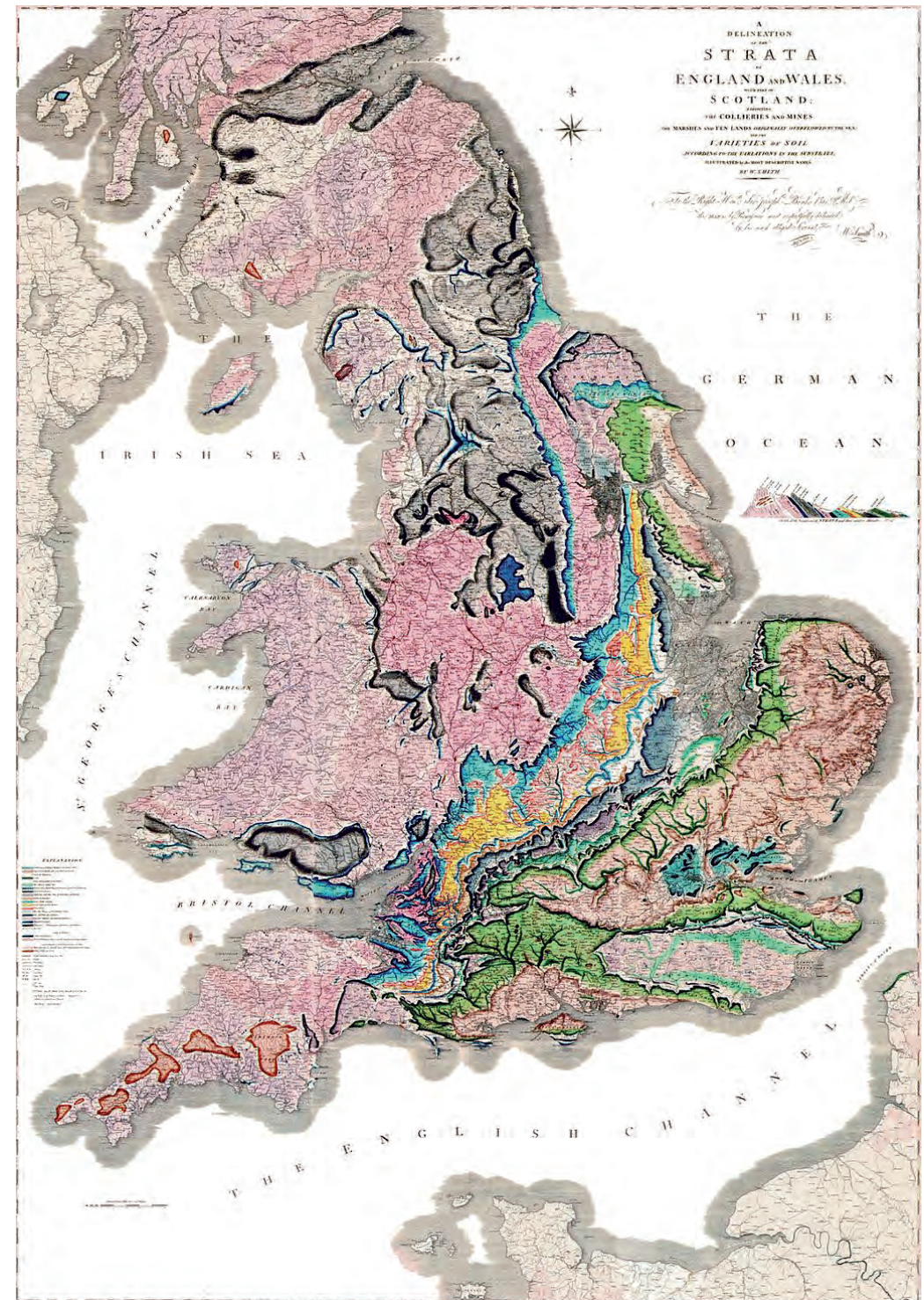
William Smith

William Smith (1769 -1839) gilt als Begründer der Stratigraphie und erstellte die erste geologische Karte Grossbritanniens.

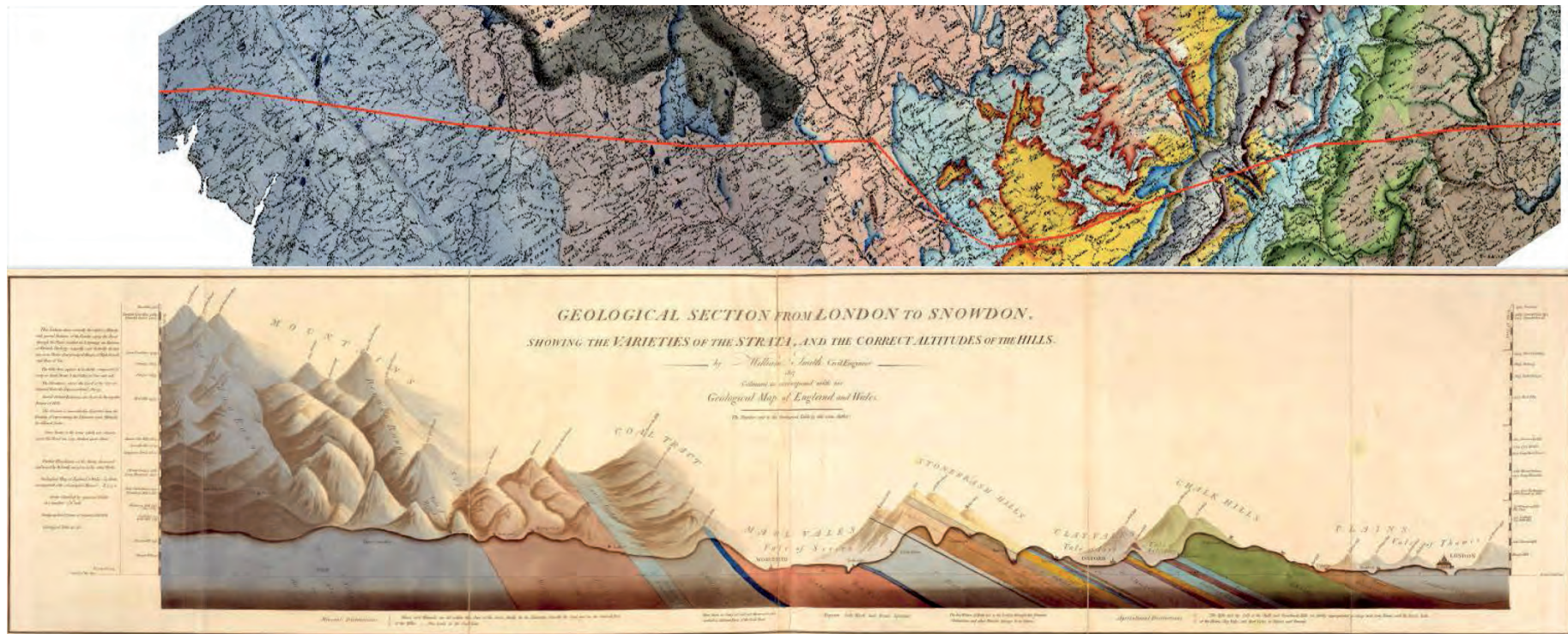
Bei der Inspektion verschiedener Kohlegruben und während seiner Arbeit bei der Beaufsichtigung eines Kanalaushubs als Ingenieur machte William Smith erste systematische Beobachtungen von Gesteinen und Fossilien. Er erkannte um 1793 die ähnliche Anordnung von Schichten an verschiedenen Orten, die mit Leitfossilien charakterisiert werden konnten.

ORGANIZED FOSSILS which identify the respective STRATA.	NAMES OF STRATA on the Author's GEOLOGICAL COLLECTION.	COLOURS as in the MAP OF STRATA.	NAMES in the RECORDS and the PECULIARITIES of the STRATA.	PRODUCTS of the STRATA.
Volcanic Rocks, Basalt, Granite, Gneiss, Quartz, Crystals, and other Minerals.	London Clay	1	London Clay, containing Bignonia, Ranunculus, and other detached Fossils.	Sapropites, from which British Roman Coins are made.
Melton, Bath, Exeter, and other Strata.	Gyp	2	City or Brickwork, with decomposition of sand and gravel.	In Building Stone in all the strata; distinct from the London Clay, which is the first Strata and the only one in the Island.
First, Second, and other Strata.	Chalk	3	Chalk, upper part with various other Fossils, and lower part with the London Clay.	Chalk, upper part with various other Fossils, and lower part with the London Clay.
Green Sand, and other Strata.	Green Sand	4	Green Sand, parallel to the Chalk.	Green Sand, parallel to the Chalk.
Reddish, and other Strata.	Reddish	5	Reddish, upper part with various other Fossils, and lower part with the London Clay.	Reddish, upper part with various other Fossils, and lower part with the London Clay.
Portland, and other Strata.	Portland	6	Portland, upper part with various other Fossils, and lower part with the London Clay.	Portland, upper part with various other Fossils, and lower part with the London Clay.
Blue Marl, and other Strata.	Blue Marl	7	Blue Marl, upper part with various other Fossils, and lower part with the London Clay.	Blue Marl, upper part with various other Fossils, and lower part with the London Clay.
White Marl, and other Strata.	White Marl	8	White Marl, upper part with various other Fossils, and lower part with the London Clay.	White Marl, upper part with various other Fossils, and lower part with the London Clay.
Red Marl, and other Strata.	Red Marl	9	Red Marl, upper part with various other Fossils, and lower part with the London Clay.	Red Marl, upper part with various other Fossils, and lower part with the London Clay.
Black Marl, and other Strata.	Black Marl	10	Black Marl, upper part with various other Fossils, and lower part with the London Clay.	Black Marl, upper part with various other Fossils, and lower part with the London Clay.
Grey Marl, and other Strata.	Grey Marl	11	Grey Marl, upper part with various other Fossils, and lower part with the London Clay.	Grey Marl, upper part with various other Fossils, and lower part with the London Clay.
Blue Marl, and other Strata.	Blue Marl	12	Blue Marl, upper part with various other Fossils, and lower part with the London Clay.	Blue Marl, upper part with various other Fossils, and lower part with the London Clay.
White Marl, and other Strata.	White Marl	13	White Marl, upper part with various other Fossils, and lower part with the London Clay.	White Marl, upper part with various other Fossils, and lower part with the London Clay.
Red Marl, and other Strata.	Red Marl	14	Red Marl, upper part with various other Fossils, and lower part with the London Clay.	Red Marl, upper part with various other Fossils, and lower part with the London Clay.
Black Marl, and other Strata.	Black Marl	15	Black Marl, upper part with various other Fossils, and lower part with the London Clay.	Black Marl, upper part with various other Fossils, and lower part with the London Clay.
Grey Marl, and other Strata.	Grey Marl	16	Grey Marl, upper part with various other Fossils, and lower part with the London Clay.	Grey Marl, upper part with various other Fossils, and lower part with the London Clay.
Blue Marl, and other Strata.	Blue Marl	17	Blue Marl, upper part with various other Fossils, and lower part with the London Clay.	Blue Marl, upper part with various other Fossils, and lower part with the London Clay.
White Marl, and other Strata.	White Marl	18	White Marl, upper part with various other Fossils, and lower part with the London Clay.	White Marl, upper part with various other Fossils, and lower part with the London Clay.
Red Marl, and other Strata.	Red Marl	19	Red Marl, upper part with various other Fossils, and lower part with the London Clay.	Red Marl, upper part with various other Fossils, and lower part with the London Clay.
Black Marl, and other Strata.	Black Marl	20	Black Marl, upper part with various other Fossils, and lower part with the London Clay.	Black Marl, upper part with various other Fossils, and lower part with the London Clay.
Grey Marl, and other Strata.	Grey Marl	21	Grey Marl, upper part with various other Fossils, and lower part with the London Clay.	Grey Marl, upper part with various other Fossils, and lower part with the London Clay.
Blue Marl, and other Strata.	Blue Marl	22	Blue Marl, upper part with various other Fossils, and lower part with the London Clay.	Blue Marl, upper part with various other Fossils, and lower part with the London Clay.
White Marl, and other Strata.	White Marl	23	White Marl, upper part with various other Fossils, and lower part with the London Clay.	White Marl, upper part with various other Fossils, and lower part with the London Clay.
Red Marl, and other Strata.	Red Marl	24	Red Marl, upper part with various other Fossils, and lower part with the London Clay.	Red Marl, upper part with various other Fossils, and lower part with the London Clay.
Black Marl, and other Strata.	Black Marl	25	Black Marl, upper part with various other Fossils, and lower part with the London Clay.	Black Marl, upper part with various other Fossils, and lower part with the London Clay.
Grey Marl, and other Strata.	Grey Marl	26	Grey Marl, upper part with various other Fossils, and lower part with the London Clay.	Grey Marl, upper part with various other Fossils, and lower part with the London Clay.
Blue Marl, and other Strata.	Blue Marl	27	Blue Marl, upper part with various other Fossils, and lower part with the London Clay.	Blue Marl, upper part with various other Fossils, and lower part with the London Clay.
White Marl, and other Strata.	White Marl	28	White Marl, upper part with various other Fossils, and lower part with the London Clay.	White Marl, upper part with various other Fossils, and lower part with the London Clay.
Red Marl, and other Strata.	Red Marl	29	Red Marl, upper part with various other Fossils, and lower part with the London Clay.	Red Marl, upper part with various other Fossils, and lower part with the London Clay.
Black Marl, and other Strata.	Black Marl	30	Black Marl, upper part with various other Fossils, and lower part with the London Clay.	Black Marl, upper part with various other Fossils, and lower part with the London Clay.
Grey Marl, and other Strata.	Grey Marl	31	Grey Marl, upper part with various other Fossils, and lower part with the London Clay.	Grey Marl, upper part with various other Fossils, and lower part with the London Clay.
Blue Marl, and other Strata.	Blue Marl	32	Blue Marl, upper part with various other Fossils, and lower part with the London Clay.	Blue Marl, upper part with various other Fossils, and lower part with the London Clay.
White Marl, and other Strata.	White Marl	33	White Marl, upper part with various other Fossils, and lower part with the London Clay.	White Marl, upper part with various other Fossils, and lower part with the London Clay.
Red Marl, and other Strata.	Red Marl	34	Red Marl, upper part with various other Fossils, and lower part with the London Clay.	Red Marl, upper part with various other Fossils, and lower part with the London Clay.
Black Marl, and other Strata.	Black Marl	35	Black Marl, upper part with various other Fossils, and lower part with the London Clay.	Black Marl, upper part with various other Fossils, and lower part with the London Clay.
Grey Marl, and other Strata.	Grey Marl	36	Grey Marl, upper part with various other Fossils, and lower part with the London Clay.	Grey Marl, upper part with various other Fossils, and lower part with the London Clay.
Blue Marl, and other Strata.	Blue Marl	37	Blue Marl, upper part with various other Fossils, and lower part with the London Clay.	Blue Marl, upper part with various other Fossils, and lower part with the London Clay.
White Marl, and other Strata.	White Marl	38	White Marl, upper part with various other Fossils, and lower part with the London Clay.	White Marl, upper part with various other Fossils, and lower part with the London Clay.
Red Marl, and other Strata.	Red Marl	39	Red Marl, upper part with various other Fossils, and lower part with the London Clay.	Red Marl, upper part with various other Fossils, and lower part with the London Clay.
Black Marl, and other Strata.	Black Marl	40	Black Marl, upper part with various other Fossils, and lower part with the London Clay.	Black Marl, upper part with various other Fossils, and lower part with the London Clay.
Grey Marl, and other Strata.	Grey Marl	41	Grey Marl, upper part with various other Fossils, and lower part with the London Clay.	Grey Marl, upper part with various other Fossils, and lower part with the London Clay.
Blue Marl, and other Strata.	Blue Marl	42	Blue Marl, upper part with various other Fossils, and lower part with the London Clay.	Blue Marl, upper part with various other Fossils, and lower part with the London Clay.
White Marl, and other Strata.	White Marl	43	White Marl, upper part with various other Fossils, and lower part with the London Clay.	White Marl, upper part with various other Fossils, and lower part with the London Clay.
Red Marl, and other Strata.	Red Marl	44	Red Marl, upper part with various other Fossils, and lower part with the London Clay.	Red Marl, upper part with various other Fossils, and lower part with the London Clay.
Black Marl, and other Strata.	Black Marl	45	Black Marl, upper part with various other Fossils, and lower part with the London Clay.	Black Marl, upper part with various other Fossils, and lower part with the London Clay.
Grey Marl, and other Strata.	Grey Marl	46	Grey Marl, upper part with various other Fossils, and lower part with the London Clay.	Grey Marl, upper part with various other Fossils, and lower part with the London Clay.
Blue Marl, and other Strata.	Blue Marl	47	Blue Marl, upper part with various other Fossils, and lower part with the London Clay.	Blue Marl, upper part with various other Fossils, and lower part with the London Clay.
White Marl, and other Strata.	White Marl	48	White Marl, upper part with various other Fossils, and lower part with the London Clay.	White Marl, upper part with various other Fossils, and lower part with the London Clay.
Red Marl, and other Strata.	Red Marl	49	Red Marl, upper part with various other Fossils, and lower part with the London Clay.	Red Marl, upper part with various other Fossils, and lower part with the London Clay.
Black Marl, and other Strata.	Black Marl	50	Black Marl, upper part with various other Fossils, and lower part with the London Clay.	Black Marl, upper part with various other Fossils, and lower part with the London Clay.

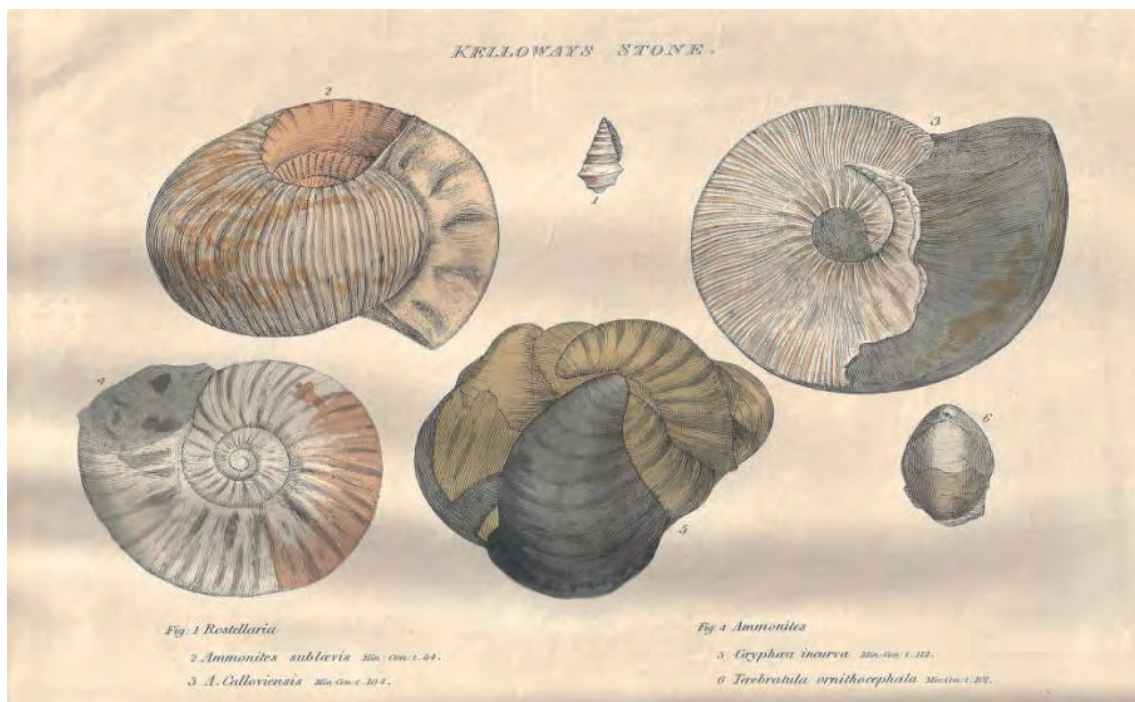
Stratigraphische Tabelle zur geologischen Karte



Geologische Karte Grossbritanniens von William Smith, handkoloriert, 1815



Geologisches Profil von Snowden nach London, 1817



Zeichnungen von Fossilien aus W. Smith: Strata identified by organized fossils, 1816 - 1819.