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May 3, 2023

1 Baseline evaluation

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[]: # Change the working directory to project root
     from pathlib import Path
     import os
     ROOT DIR = Path.cwd()
     while not ROOT_DIR.joinpath("src").exists():
         ROOT_DIR = ROOT_DIR.parent
     os.chdir(ROOT_DIR)
[]: # from src.eval import main as evaluate
     from src.eval_fetch import main as evaluate
     import argparse
[]: # predict = "./data/dev-claims-baseline.json"
     # predict = "./result/inference/model 03 run 01 dev claim evidence retrieved.
      ⇒json"
     predict = "./result/inference/
      →model_03_run_01_continue_dev_claim_evidence_retrieved.json"
     # predict = "./result/inference/model 01 base e1 500 neg/
     ⇔dev_evidence_predictions.json"
     truth = "./data/dev-claims.json"
[ ]: parser = argparse.ArgumentParser()
     parser.add_argument("--predictions", required=True)
     parser.add_argument("--groundtruth", required=True)
     parser.add_argument("--verbose", action="store_true")
     args = parser.parse_args(args=[
         "--predictions", predict,
         "--groundtruth", truth,
         "--verbose"
     ])
[]: evaluate(args)
```

groundtruth = {'claim_text': 'The corals may save themselves, as many other
creatures are attempting to do, by moving toward the poles as the Earth warms,

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establishing new reefs in cooler water."', 'claim_label': 'SUPPORTS',
'evidences': ['evidence-242575', 'evidence-1175280']}
predictions = {'claim_text': 'The corals may save themselves, as many other
creatures are attempting to do, by moving toward the poles as the Earth warms,
establishing new reefs in cooler water."', 'evidences': ['evidence-1064222',
'evidence-183385', 'evidence-429754', 'evidence-627788', 'evidence-777792']}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
groundtruth = {'claim text': 'Increases in atmospheric CO2 followed increases in
temperature.', 'claim_label': 'SUPPORTS', 'evidences': ['evidence-368192',
'evidence-423643', 'evidence-629358']}
predictions = {'claim_text': 'Increases in atmospheric CO2 followed increases in
temperature.', 'evidences': ['evidence-20807', 'evidence-450894',
'evidence-1146102', 'evidence-539576', 'evidence-847689']}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
groundtruth = {'claim_text': 'While evidence that the earth's orbital variations
impact radiation levels and thus global temperatures does not of course mean
that man is not in some way impacting the climate, studies like these highlight
that the role man plays on the planet is dwarfed by natural phenomena utterly
out of our control.', 'claim_label': 'NOT_ENOUGH_INFO', 'evidences':
['evidence-550422', 'evidence-163450', 'evidence-1107482', 'evidence-1137996',
'evidence-720840']}
predictions = {'claim text': 'While evidence that the earth's orbital variations
impact radiation levels and thus global temperatures does not of course mean
that man is not in some way impacting the climate, studies like these highlight
that the role man plays on the planet is dwarfed by natural phenomena utterly
out of our control.', 'evidences': ['evidence-278454', 'evidence-651942',
'evidence-1101616', 'evidence-1012380', 'evidence-49696']}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
groundtruth = {'claim_text': '"Moreover, the ocean already contains so-called
oxygen minimum zones, generally found in the middle depths.', 'claim_label':
'SUPPORTS', 'evidences': ['evidence-747577', 'evidence-69294',
'evidence-754329', 'evidence-21184', 'evidence-754923']}
predictions = {'claim_text': '"Moreover, the ocean already contains so-called
oxygen minimum zones, generally found in the middle depths.', 'evidences':
['evidence-1174820', 'evidence-1135549', 'evidence-313574', 'evidence-872732',
'evidence-308886']}
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evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
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groundtruth = {'claim_text': 'The particular signature of warming in 2016 was also revealing in another way, Overpeck said, noting that the stratosphere... saw record cold temperatures last year', 'claim_label': 'NOT_ENOUGH_INFO', 'evidences': ['evidence-382930', 'evidence-818951', 'evidence-1020939', 'evidence-607965', 'evidence-541555']} predictions = {'claim_text': 'The particular signature of warming in 2016 was also revealing in another way, Overpeck said, noting that the stratosphere... saw record cold temperatures last year', 'evidences': ['evidence-321512', 'evidence-1150493', 'evidence-813877', 'evidence-736473', 'evidence-716825']} evidence recall = 0.0 evidence precision = 0.0 evidence fscore = 0.0

groundtruth = {'claim text': 'Last year's warmth was manifested across the planet, from the warm tropical ocean waters off the coast of northeastern Australia, where the Great Barrier Reef experienced its worst coral bleaching event on record and large scale coral death, to the Arctic, where sea ice hit regular monthly record lows and overall temperatures were also the warmest on record, at least from January through September 2016.', 'claim_label': 'SUPPORTS', 'evidences': ['evidence-815795', 'evidence-197787', 'evidence-95039', 'evidence-617908']} predictions = {'claim text': 'Last year's warmth was manifested across the planet, from the warm tropical ocean waters off the coast of northeastern Australia, where the Great Barrier Reef experienced its worst coral bleaching event on record and large scale coral death, to the Arctic, where sea ice hit regular monthly record lows and overall temperatures were also the warmest on record, at least from January through September 2016.', 'evidences': ['evidence-1013338', 'evidence-20807', 'evidence-443847', 'evidence-269824', 'evidence-903119']} evidence recall = 0.0evidence precision = 0.0evidence fscore = 0.0

groundtruth = {'claim_text': '"[...]The impact on calcification, metabolism, growth, fertility and survival of calcifying marine species when pH is lowered up to 0.3 units [...] is beneficial, not damaging.', 'claim_label': 'REFUTES', 'evidences': ['evidence-1112531', 'evidence-616116']} predictions = {'claim_text': '"[...]The impact on calcification, metabolism, growth, fertility and survival of calcifying marine species when pH is lowered up to 0.3 units [...] is beneficial, not damaging.', 'evidences': ['evidence-141132', 'evidence-297515', 'evidence-241456', 'evidence-1160448',

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'evidence-253749']}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
groundtruth = {'claim text': 'This means the jet stream meanders more, with big
loops bringing warm air to the frozen north and cold air into warmer southern
climes."', 'claim_label': 'SUPPORTS', 'evidences': ['evidence-459315']}
predictions = {'claim_text': 'This means the jet stream meanders more, with big
loops bringing warm air to the frozen north and cold air into warmer southern
climes."', 'evidences': ['evidence-1178089', 'evidence-1087464',
'evidence-180002', 'evidence-1074255', 'evidence-263508']}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
groundtruth = {'claim_text': 'With more CO2 in the atmosphere, the challenge
[feeding 2.5 billion more people] can and will be met.', 'claim label':
'SUPPORTS', 'evidences': ['evidence-76391']}
predictions = {'claim text': 'With more CO2 in the atmosphere, the challenge
[feeding 2.5 billion more people] can and will be met.', 'evidences':
['evidence-457009', 'evidence-886223', 'evidence-79910', 'evidence-531774',
'evidence-110166']}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
groundtruth = {'claim_text': 'Lake-bottom sediments in Florida tell us that
recent major hurricane activity in the Gulf of Mexico has been less frequent
than in centuries past.', 'claim_label': 'REFUTES', 'evidences':
['evidence-1150262']}
predictions = {'claim text': 'Lake-bottom sediments in Florida tell us that
recent major hurricane activity in the Gulf of Mexico has been less frequent
than in centuries past.', 'evidences': ['evidence-479543', 'evidence-349085',
'evidence-641156', 'evidence-516522', 'evidence-1060427']}
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evidence precision = 0.0
evidence fscore = 0.0
groundtruth = {'claim_text': 'Global warming is driving major melting on the
surface of Greenland's glaciers and is speeding up their travel into the sea."',
'claim_label': 'SUPPORTS', 'evidences': ['evidence-88825', 'evidence-1127398',
'evidence-1115033']}
predictions = {'claim text': 'Global warming is driving major melting on the
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surface of Greenland's glaciers and is speeding up their travel into the sea."',
'evidences': ['evidence-209930', 'evidence-604477', 'evidence-714996',
'evidence-817808', 'evidence-884519']}
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evidence precision = 0.0
evidence fscore = 0.0
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groundtruth = {'claim_text': 'The melting Greenland ice sheet is already a major contributor to rising sea level and if it was eventually lost entirely, the oceans would rise by six metres around the world, flooding many of the world's largest cities.', 'claim_label': 'SUPPORTS', 'evidences': ['evidence-856068', 'evidence-7473', 'evidence-952525', 'evidence-173281', 'evidence-1040612']} predictions = {'claim_text': 'The melting Greenland ice sheet is already a major contributor to rising sea level and if it was eventually lost entirely, the oceans would rise by six metres around the world, flooding many of the world's largest cities.', 'evidences': ['evidence-368819', 'evidence-235187', 'evidence-1158976', 'evidence-1090469', 'evidence-1099491']} evidence recall = 0.0 evidence precision = 0.0 evidence fscore = 0.0

groundtruth = {'claim_text': 'While the north-east, midwest and upper great plains have experienced a 30% increase in heavy rainfall episodes - considered once-in-every-five year downpours - parts of the west, particularly California, have been parched by drought.', 'claim_label': 'SUPPORTS', 'evidences': ['evidence-17722', 'evidence-1023411', 'evidence-443760', 'evidence-948853']} predictions = {'claim_text': 'While the north-east, midwest and upper great plains have experienced a 30% increase in heavy rainfall episodes - considered once-in-every-five year downpours - parts of the west, particularly California, have been parched by drought.', 'evidences': ['evidence-658407', 'evidence-393334', 'evidence-650542', 'evidence-287658', 'evidence-964803']} evidence recall = 0.0 evidence precision = 0.0 evidence fscore = 0.0

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groundtruth = {'claim_text': 'This means that the world is now 1C warmer than it
was in pre-industrial times', 'claim_label': 'SUPPORTS', 'evidences':
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predictions = {'claim text': 'This means that the world is now 1C warmer than it
was in pre-industrial times', 'evidences': []}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
groundtruth = { 'claim text': 'The rapid changes in the climate may have profound
consequences for humans and other species... Severe drought caused food shortages
for millions of people in Ethiopia, with a lack of rainfall resulting in
"intense and widespread" forest fires in Indonesia that belched out a vast
quantity of greenhouse gas', 'claim label': 'SUPPORTS', 'evidences':
['evidence-659559', 'evidence-181656', 'evidence-499929', 'evidence-354699']}
predictions = {'claim text': 'The rapid changes in the climate may have profound
consequences for humans and other species... Severe drought caused food shortages
for millions of people in Ethiopia, with a lack of rainfall resulting in
"intense and widespread" forest fires in Indonesia that belched out a vast
quantity of greenhouse gas', 'evidences': ['evidence-202426', 'evidence-650542',
'evidence-287658', 'evidence-468500', 'evidence-405462']}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
groundtruth = {'claim text': 'Any reasonable person can recognize both positives
and negatives among the policy proposals of both Tories and Labour.',
'claim_label': 'NOT_ENOUGH_INFO', 'evidences': ['evidence-342343',
'evidence-399707', 'evidence-1014366', 'evidence-462075', 'evidence-627910']}
predictions = {'claim text': 'Any reasonable person can recognize both positives
and negatives among the policy proposals of both Tories and Labour.',
'evidences': ['evidence-210800', 'evidence-606700', 'evidence-316888',
'evidence-20601', 'evidence-1150743']}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
groundtruth = {'claim text': 'And in January, one out of five British children
told pollsters they were having nightmares about climate change.',
'claim_label': 'SUPPORTS', 'evidences': ['evidence-315515']}
predictions = {'claim_text': 'And in January, one out of five British children
told pollsters they were having nightmares about climate change.', 'evidences':
[]}
evidence recall = 0.0
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evidence precision = 0.0
evidence fscore = 0.0
groundtruth = {'claim text': 'The late 1970s marked the end of a 30-year cooling
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predictions = {'claim text': 'The late 1970s marked the end of a 30-year cooling
trend.', 'evidences': ['evidence-322438', 'evidence-435271', 'evidence-1068819',
'evidence-439186', 'evidence-216542']}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
groundtruth = {'claim_text': '"In their award winning book, 'Taken By Storm'
(2007), Canadian researchers Christopher Essex and Ross McKitrick explain:
'Temperature is not an amount of something [like height or weight].',
'claim_label': 'NOT_ENOUGH_INFO', 'evidences': ['evidence-25485',
'evidence-189203', 'evidence-710700', 'evidence-948988', 'evidence-179080']}
predictions = {'claim_text': '"In their award winning book, 'Taken By Storm'
(2007), Canadian researchers Christopher Essex and Ross McKitrick explain:
'Temperature is not an amount of something [like height or weight].',
'evidences': ['evidence-494161', 'evidence-129503', 'evidence-598356',
'evidence-1034628', 'evidence-456747']}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
groundtruth = {'claim text': 'Greenpeace didn't save the whales, switching from
whale oil to petroleum and palm oil did', 'claim_label': 'NOT_ENOUGH_INFO',
'evidences': ['evidence-51845', 'evidence-1025353', 'evidence-917144',
'evidence-426684', 'evidence-784155']}
predictions = {'claim_text': 'Greenpeace didn't save the whales, switching from
whale oil to petroleum and palm oil did', 'evidences': ['evidence-226609',
'evidence-1069884', 'evidence-880241', 'evidence-499788', 'evidence-114883']}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
groundtruth = { 'claim_text': 'In recent decades this warming has been
accompanied by a constant rise in the sea level and, it would appear, by an
increase of extreme weather events, even if a scientifically determinable cause
cannot be assigned to each particular phenomenon.', 'claim_label': 'SUPPORTS',
'evidences': ['evidence-946255', 'evidence-1129603', 'evidence-456747',
'evidence-1091550']}
predictions = {'claim_text': 'In recent decades this warming has been
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accompanied by a constant rise in the sea level and, it would appear, by an
increase of extreme weather events, even if a scientifically determinable cause
cannot be assigned to each particular phenomenon.', 'evidences':
['evidence-1032149', 'evidence-494148', 'evidence-611327', 'evidence-881808',
'evidence-701955']}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
groundtruth = {'claim text': 'Concentrated in the atmosphere, these gases do not
allow the warmth of the sun's rays reflected by the earth to be dispersed in
space.', 'claim_label': 'SUPPORTS', 'evidences': ['evidence-1069448',
'evidence-767961']}
predictions = {'claim_text': 'Concentrated in the atmosphere, these gases do not
allow the warmth of the sun's rays reflected by the earth to be dispersed in
space.', 'evidences': ['evidence-112106', 'evidence-1078341',
'evidence-1012916', 'evidence-898517', 'evidence-1172108']}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
groundtruth = {'claim_text': 'Many of the world's coral reefs are already barren
or in a state of constant decline.', 'claim_label': 'NOT_ENOUGH_INFO',
'evidences': ['evidence-1124018', 'evidence-995813', 'evidence-1161994',
'evidence-288294', 'evidence-946262']}
predictions = {'claim text': 'Many of the world's coral reefs are already barren
or in a state of constant decline.', 'evidences': ['evidence-124362',
'evidence-1001116', 'evidence-705942', 'evidence-1154331', 'evidence-744921']}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
groundtruth = { 'claim_text': 'The amount of carbon dioxide absorbed by the upper
layer of the oceans is increasing by about 2 billion tons per year.',
'claim_label': 'NOT_ENOUGH_INFO', 'evidences': ['evidence-425667',
'evidence-956954', 'evidence-923136', 'evidence-498380', 'evidence-257475']}
predictions = {'claim_text': 'The amount of carbon dioxide absorbed by the upper
layer of the oceans is increasing by about 2 billion tons per year.',
'evidences': ['evidence-618811', 'evidence-178206', 'evidence-552235',
'evidence-488674', 'evidence-477588']}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
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groundtruth = {'claim_text': 'the concentration of carbon dioxide in Earth's
atmosphere has climbed to a level last seen more than 3 million years ago -
before humans even appeared on the rocky ball we call home.', 'claim label':
'SUPPORTS', 'evidences': ['evidence-551522']}
predictions = {'claim text': 'the concentration of carbon dioxide in Earth's
atmosphere has climbed to a level last seen more than 3 million years ago -
before humans even appeared on the rocky ball we call home.', 'evidences':
['evidence-368819', 'evidence-1169345', 'evidence-990887', 'evidence-15775',
'evidence-381399']}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
groundtruth = {'claim_text': 'no one really knows if last year 2016 was a global
temperature record.', 'claim_label': 'NOT_ENOUGH_INFO', 'evidences':
['evidence-915569', 'evidence-742898', 'evidence-730599', 'evidence-169703',
'evidence-64048']}
predictions = {'claim_text': 'no one really knows if last year 2016 was a global
temperature record.', 'evidences': []}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
groundtruth = {'claim_text': 'The Earth's climate is changing in response to
increasing concentrations of greenhouse gases (GHGs) and particulate matter in
the atmosphere, largely as the result of human activities.', 'claim_label':
'SUPPORTS', 'evidences': ['evidence-1059381', 'evidence-1187937',
'evidence-950186']}
predictions = {'claim_text': 'The Earth's climate is changing in response to
increasing concentrations of greenhouse gases (GHGs) and particulate matter in
the atmosphere, largely as the result of human activities.', 'evidences':
['evidence-1064868', 'evidence-1180647', 'evidence-274044', 'evidence-449314',
'evidence-1150379']}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
groundtruth = {'claim_text': "There's no empirical evidence for climate
change.", 'claim_label': 'REFUTES', 'evidences': ['evidence-1047048',
'evidence-574477']}
predictions = {'claim text': "There's no empirical evidence for climate
change.", 'evidences': ['evidence-464396', 'evidence-595597', 'evidence-650204',
'evidence-831116', 'evidence-942611']}
evidence recall = 0.0
evidence precision = 0.0
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evidence fscore = 0.0
groundtruth = {'claim_text': 'IPCC overestimate temperature rise.',
'claim label': 'REFUTES', 'evidences': ['evidence-105184']}
predictions = {'claim_text': 'IPCC overestimate temperature rise.', 'evidences':
['evidence-171000', 'evidence-1027012', 'evidence-507057', 'evidence-351746',
'evidence-464939']}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
groundtruth = {'claim_text': 'Scientists retracted claim that sea levels are
rising.', 'claim_label': 'REFUTES', 'evidences': ['evidence-988277',
'evidence-1091550', 'evidence-98543', 'evidence-1121998']}
predictions = {'claim_text': 'Scientists retracted claim that sea levels are
rising.', 'evidences': ['evidence-494851', 'evidence-736122', 'evidence-772442',
'evidence-1050099', 'evidence-1047887']}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
groundtruth = {'claim_text': "CO2 limits won't cool the planet.", 'claim_label':
'NOT ENOUGH INFO', 'evidences': ['evidence-913997', 'evidence-955328',
'evidence-401235', 'evidence-915569', 'evidence-370378']}
predictions = {'claim_text': "CO2 limits won't cool the planet.", 'evidences':
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'evidence-422200']}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
groundtruth = {'claim_text': 'Extreme melting and changes to the climate like
this has released pressure on to the continent, allowing the ground to rise
up.', 'claim_label': 'SUPPORTS', 'evidences': ['evidence-702708']}
predictions = {'claim_text': 'Extreme melting and changes to the climate like
this has released pressure on to the continent, allowing the ground to rise
up.', 'evidences': ['evidence-1062826', 'evidence-782532', 'evidence-382966',
'evidence-817308', 'evidence-611327']}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
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groundtruth = {'claim_text': 'Worry about global warming impacts in the next 100

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years, not an ice age in over 10,000 years.', 'claim_label': 'NOT_ENOUGH_INFO',
'evidences': ['evidence-336096', 'evidence-418973', 'evidence-142343',
'evidence-954212', 'evidence-1016625']}
predictions = {'claim_text': 'Worry about global warming impacts in the next 100
years, not an ice age in over 10,000 years.', 'evidences': ['evidence-1112727',
'evidence-181251', 'evidence-527125', 'evidence-191220', 'evidence-1067022']}
evidence recall = 0.0
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evidence fscore = 0.0
groundtruth = {'claim text': "Al Gore's book is quite accurate, and far more
accurate than contrarian books.", 'claim_label': 'SUPPORTS', 'evidences':
['evidence-506072', 'evidence-1109658', 'evidence-1087633', 'evidence-1033955']}
predictions = {'claim_text': "Al Gore's book is quite accurate, and far more
accurate than contrarian books.", 'evidences': ['evidence-1109658',
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evidence recall = 0.25
evidence precision = 0.2
evidence fscore = 0.22222222222224
groundtruth = {'claim_text': 'Thick arctic sea ice is in rapid retreat.',
'claim_label': 'SUPPORTS', 'evidences': ['evidence-280204', 'evidence-1200544',
'evidence-629116']}
predictions = {'claim text': 'Thick arctic sea ice is in rapid retreat.',
'evidences': ['evidence-1045093', 'evidence-240134', 'evidence-600447',
'evidence-253690', 'evidence-1099915']}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
groundtruth = {'claim_text': 'Evidence is building that net cloud feedback is
likely positive and unlikely to be strongly negative.', 'claim label':
'SUPPORTS', 'evidences': ['evidence-95001']}
predictions = {'claim text': 'Evidence is building that net cloud feedback is
likely positive and unlikely to be strongly negative.', 'evidences':
['evidence-901219', 'evidence-198157', 'evidence-374084', 'evidence-1111236',
'evidence-574477']}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
groundtruth = {'claim_text': 'Around 97% of climate experts agree that humans
are causing global warming.', 'claim_label': 'DISPUTED', 'evidences':
['evidence-503460', 'evidence-797793']}
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predictions = {'claim_text': 'Around 97% of climate experts agree that humans
are causing global warming.', 'evidences': ['evidence-793124',
'evidence-178505', 'evidence-216542', 'evidence-411911', 'evidence-741671']}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
groundtruth = {'claim text': "Global warming' and 'climate change' mean
different things and have both been used for decades.", 'claim_label':
'DISPUTED', 'evidences': ['evidence-59188', 'evidence-1121750']}
predictions = {'claim_text': "Global warming' and 'climate change' mean
different things and have both been used for decades.", 'evidences':
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'evidence-154366']}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
groundtruth = {'claim_text': 'The actual data show high northern latitudes are
warmer today than in 1940.', 'claim_label': 'SUPPORTS', 'evidences':
['evidence-857561', 'evidence-1150493']}
predictions = {'claim_text': 'The actual data show high northern latitudes are
warmer today than in 1940.', 'evidences': ['evidence-1104838',
'evidence-198457', 'evidence-945644', 'evidence-934160', 'evidence-430670']}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
groundtruth = {'claim_text': 'If there were [carbon emissions], we could not see
because most carbon is black.', 'claim_label': 'REFUTES', 'evidences':
['evidence-142343']}
predictions = {'claim text': 'If there were [carbon emissions], we could not see
because most carbon is black.', 'evidences': ['evidence-1185776',
'evidence-1015594', 'evidence-175253', 'evidence-670866', 'evidence-1153298']}
evidence recall = 0.0
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evidence fscore = 0.0
groundtruth = {'claim_text': 'Jim Hansen had several possible scenarios; his
mid-level scenario B was right.', 'claim_label': 'NOT_ENOUGH_INFO', 'evidences':
['evidence-1005240', 'evidence-485896', 'evidence-147653', 'evidence-210167',
'evidence-901245']}
predictions = {'claim_text': 'Jim Hansen had several possible scenarios; his
mid-level scenario B was right.', 'evidences': ['evidence-274829',
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'evidence-886863', 'evidence-1065993', 'evidence-233573', 'evidence-89766']}
evidence recall = 0.0
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evidence fscore = 0.0
groundtruth = {'claim text': 'The IPCC simply updated their temperature history
graphs to show the best data available at the time.', 'claim_label':
'NOT ENOUGH INFO', 'evidences': ['evidence-660105', 'evidence-1197833',
'evidence-1052408', 'evidence-911855', 'evidence-332770']}
predictions = {'claim_text': 'The IPCC simply updated their temperature history
graphs to show the best data available at the time.', 'evidences':
['evidence-578579', 'evidence-267910', 'evidence-1107443', 'evidence-512615',
'evidence-121489']}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
groundtruth = {'claim text': 'Venus very likely underwent a runaway or 'moist'
greenhouse phase earlier in its history, and today is kept hot by a dense CO2
atmosphere.', 'claim_label': 'SUPPORTS', 'evidences': ['evidence-1043526']}
predictions = {'claim_text': 'Venus very likely underwent a runaway or 'moist'
greenhouse phase earlier in its history, and today is kept hot by a dense CO2
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predictions = {'claim_text': 'A 14 August 1912 article from a New Zealand
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predictions = {'claim_text': 'NASA Finds Antarctica is Gaining Ice,',
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predictions = {'claim_text': 'Global warming is causing more hurricanes and
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groundtruth = {'claim_text': "Some global warming 'skeptics' argue that the
Earth's climate sensitivity is so low that a doubling of atmospheric CO2 will
result in a surface temperature change on the order of 1°C or less, and that
therefore global warming is nothing to worry about.", 'claim_label': 'REFUTES',
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significant storm worldwide just makes it seem that way."', 'claim label':
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significant storm worldwide just makes it seem that way."', 'evidences':
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history with 30 to 40 centimetres already predicted in the mountains.',
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groundtruth = {'claim_text': '\'To suddenly label CO2 as a "pollutant" is a
disservice to a gas that has played an enormous role in the development and
sustainability of all life on this wonderful Earth.', 'claim_label': 'REFUTES',
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evidence fscore = 0.0
groundtruth = {'claim_text': 'With 32 years of rapidly increasing global
temperatures and only a minor increase in global CO2 emissions, followed by 33
years of slowly cooling global temperatures with rapid increases in global CO2
emissions, it was deceitful for the IPCC to make any claim that CO2 emissions
were primarily responsible for observed 20th century global warming."',
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years of slowly cooling global temperatures with rapid increases in global CO2
emissions, it was deceitful for the IPCC to make any claim that CO2 emissions
were primarily responsible for observed 20th century global warming."',
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the alarmists' claims that coral reefs are in deep trouble due to the buildup
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'evidence-469998', 'evidence-511848', 'evidence-338219']}
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evidence precision = 0.2
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groundtruth = {'claim_text': 'The IPCC no longer includes the 'Hockey stick'
chart in its reports.', 'claim_label': 'NOT_ENOUGH_INFO', 'evidences':
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predictions = {'claim_text': 'The IPCC no longer includes the 'Hockey stick'
chart in its reports.', 'evidences': ['evidence-794055', 'evidence-294993',
'evidence-762236', 'evidence-323994', 'evidence-1165675']}
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evidence recall = 0.2
evidence precision = 0.2

evidence fscore = 0.20000000000000004

groundtruth = {'claim_text': '"...there is the contention by Wolfgang Knorr of the Department of Earth Sciences at the University of Bristol in England that carbon dioxide levels in the atmosphere are about where they were 160 years ago." (as quoted by Ken Ward Jr.)', 'claim_label': 'REFUTES', 'evidences': ['evidence-450316', 'evidence-657496', 'evidence-962456', 'evidence-800880']} predictions = {'claim_text': '"...there is the contention by Wolfgang Knorr of the Department of Earth Sciences at the University of Bristol in England that carbon dioxide levels in the atmosphere are about where they were 160 years ago." (as quoted by Ken Ward Jr.)', 'evidences': ['evidence-1011994', 'evidence-430596', 'evidence-789725', 'evidence-5381', 'evidence-846966']} evidence recall = 0.0 evidence precision = 0.0

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that affect the planet's energy imbalance.", 'claim_label': 'SUPPORTS',
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predictions = {'claim_text': "There are a myriad of other radiative forcings
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cooling.', 'claim_label': 'SUPPORTS', 'evidences': ['evidence-695602',
'evidence-458452', 'evidence-1075210']}
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evidence fscore = 0.0
groundtruth = {'claim_text': "Hansen's 1988 results are evidence that the actual
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climate sensitivity is about 3°C for a doubling of atmospheric CO2.",
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'evidence-35531', 'evidence-1180647']}
evidence recall = 0.0
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evidence fscore = 0.0
groundtruth = {'claim_text': 'Had he used the currently accepted value of
approximately 3°C warming for a doubling of atmospheric CO2, Hansen would have
correctly projected the ensuing global warming.', 'claim_label': 'SUPPORTS',
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predictions = {'claim_text': 'Had he used the currently accepted value of
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approximately 3°C warming for a doubling of atmospheric CO2, Hansen would have
correctly projected the ensuing global warming.', 'evidences':
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warming since 1995', 'claim_label': 'DISPUTED', 'evidences': ['evidence-18549',
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groundtruth = {'claim_text': 'In fact, the authors go on to estimate climate
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sensitivity from their findings, calculate a value between 2.3 to 4.1°C.',
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groundtruth = {'claim_text': 'More importantly, the OISM list only contains 39
scientists who specialise in climate science.', 'claim_label':
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'evidence-363528', 'evidence-1161865', 'evidence-676759']}
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the Catholic Church.", 'claim_label': 'SUPPORTS', 'evidences': ['evidence-392',
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predictions = {'claim_text': "Skeptics who oppose scientific findings that
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groundtruth = {'claim_text': 'Trenberth\'s views are clarified in the paper "An
imperative for climate change planning: tracking Earth\'s global energy".',
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predictions = {'claim_text': 'Trenberth\'s views are clarified in the paper "An
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evidence recall = 0.0
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evidence fscore = 0.0
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groundtruth = {'claim_text': 'The latest measurements involve the use of

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satellite gravimetry, estimating the mass of terrain beneath by detecting
slight changes in gravity as a satellite passes overhead.', 'claim_label':
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satellite gravimetry, estimating the mass of terrain beneath by detecting
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'evidence-1199765']}
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strongest of the major greenhouse gases, contributing 36-72 percent of the
greenhouse effect.', 'claim_label': 'SUPPORTS', 'evidences': ['evidence-909112',
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strongest of the major greenhouse gases, contributing 36-72 percent of the
greenhouse effect.', 'evidences': ['evidence-368342', 'evidence-986681',
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evidence recall = 0.0
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groundtruth = {'claim_text': 'Once natural influences, in particular the impact
of El Niño and La Niña, are removed from the recent termperature record, there
is no evidence of a significant change in the human contribution to climate
change.', 'claim_label': 'DISPUTED', 'evidences': ['evidence-1187937',
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evidence recall = 0.0
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groundtruth = {'claim_text': "'Another global warming myth comes crashing
down.", 'claim_label': 'NOT_ENOUGH_INFO', 'evidences': ['evidence-780841',
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down.", 'evidences': ['evidence-298', 'evidence-35625', 'evidence-396628',
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evidence precision = 0.0
evidence fscore = 0.0
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groundtruth = {'claim_text': 'Continued greenhouse gas emissions at or above current rates would cause further warming and induce many changes in the global climate system during the 21st century that would very likely be larger than those observed during the 20th century.', 'claim_label': 'SUPPORTS', 'evidences': ['evidence-504415']} predictions = {'claim_text': 'Continued greenhouse gas emissions at or above current rates would cause further warming and induce many changes in the global climate system during the 21st century that would very likely be larger than those observed during the 20th century.', 'evidences': ['evidence-463557', 'evidence-107116', 'evidence-1114420', 'evidence-1091781', 'evidence-558741']} evidence recall = 0.0 evidence precision = 0.0 evidence fscore = 0.0

groundtruth = {'claim_text': 'So this is a government which is proposing to put at risk our manufacturing industry, to penalise struggling families, to make a tough situation worse for millions of households right around Australia.', 'claim_label': 'NOT_ENOUGH_INFO', 'evidences': ['evidence-137771', 'evidence-100483', 'evidence-617690', 'evidence-462483', 'evidence-222747']} predictions = {'claim_text': 'So this is a government which is proposing to put at risk our manufacturing industry, to penalise struggling families, to make a tough situation worse for millions of households right around Australia.', 'evidences': ['evidence-1201908', 'evidence-1104259', 'evidence-514455', 'evidence-198564', 'evidence-1035616']} evidence recall = 0.0 evidence precision = 0.0 evidence fscore = 0.0

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the history of artificial satellites and the use of microwave frequencies from
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groundtruth = {'claim_text': 'But each serial adjustment has tended to make the
early years colder, which increases the warming trend.', 'claim_label':
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early years colder, which increases the warming trend.', 'evidences':
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groundtruth = {'claim_text': 'While members of the media may nod along to such
claims [about changes in weather extremes], the evidence paints a different
story', 'claim_label': 'SUPPORTS', 'evidences': ['evidence-817269',
'evidence-246671']}
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claims [about changes in weather extremes], the evidence paints a different
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groundtruth = {'claim_text': 'Nor is there evidence of an increase in floods
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predictions = {'claim_text': 'Nor is there evidence of an increase in floods
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evidence fscore = 0.0
groundtruth = {'claim_text': 'The most recent IPCC report lays out a future if
we limit global heating to 1.5°C instead of the Paris Agreement's 2°C.',
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evidence fscore = 0.0
groundtruth = {'claim text': 'By 2050 there's a scientific consensus that we
reached the tipping point for ice sheets in Greenland and the West Antarctic',
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predictions = {'claim_text': 'By 2050 there's a scientific consensus that we
reached the tipping point for ice sheets in Greenland and the West Antarctic',
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evidence precision = 0.0
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groundtruth = {'claim_text': 'when 3 per cent of total annual global emissions
of carbon dioxide are from humans and Australia prod\xaduces 1.3 per cent of
this 3 per cent, then no amount of emissions reductio\xadn here will have any
effect on global climate.', 'claim_label': 'NOT_ENOUGH_INFO', 'evidences':
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of carbon dioxide are from humans and Australia prod\xaduces 1.3 per cent of
this 3 per cent, then no amount of emissions reductio\xadn here will have any
effect on global climate.', 'evidences': ['evidence-361694', 'evidence-109198',
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'evidence-675527', 'evidence-504117', 'evidence-730469']}
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in accumulation could spark the next ice age.', 'evidences':
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evidence fscore = 0.0
groundtruth = {'claim_text': 'Renew\xadables such as wind turbines are
environmentally disastrous because they pollute a huge land area, slice and dice
birds and bats, kill insects that are bird food, create health problems for
humans who live within kilometres of them, leave toxins around the turbine site
and despoil the landscape.', 'claim_label': 'REFUTES', 'evidences':
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environmentally disastrous because they pollute a huge land area, slice and dice
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humans who live within kilometres of them, leave toxins around the turbine site
and despoil the landscape.', 'evidences': ['evidence-682346', 'evidence-713393',
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groundtruth = {'claim_text': '"Today climate scientists are obsessed with the
level of carbon dioxide in the atmosphere, a very very small part of the overall

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level of carbon dioxide in the atmosphere, a very very small part of the overall
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of emissions by 2030', 'evidences': []}
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groundtruth = {'claim_text': 'But like most claims regarding global warming, the
real effect is small, probably temporary, and most likely due to natural weather
patterns', 'claim_label': 'DISPUTED', 'evidences': ['evidence-896442',
'evidence-504446', 'evidence-128422', 'evidence-479999', 'evidence-1091550']}
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predictions = {'claim text': 'But like most claims regarding global warming, the
real effect is small, probably temporary, and most likely due to natural weather
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'evidence-635308', 'evidence-519943', 'evidence-763773']}
evidence recall = 0.0
evidence precision = 0.0
evidence fscore = 0.0
groundtruth = {'claim_text': 'More than 100 climate models over the past 30
years did not predict what actually happened because it was assumed carbon
dioxide had the pivotal role in driving climate change and that the effects of
clouds, back-radiation and the sun were trivial.', 'claim_label':
'NOT ENOUGH INFO', 'evidences': ['evidence-1199931', 'evidence-510347',
'evidence-1057489', 'evidence-100394', 'evidence-1197833']}
predictions = {'claim_text': 'More than 100 climate models over the past 30
years did not predict what actually happened because it was assumed carbon
dioxide had the pivotal role in driving climate change and that the effects of
clouds, back-radiation and the sun were trivial.', 'evidences':
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electricity.', 'claim_label': 'SUPPORTS', 'evidences': ['evidence-67732']}
predictions = {'claim_text': 'South Australia is winning: it has the most
unreliable grid in the world outside Africa and the most expensive
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something that was expected with just 1C of warming', 'claim_label': 'SUPPORTS',
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groundtruth = {'claim_text': 'And there is a lot of evidence that climate change
is diminishing biodiversity, which can be seen in these alpine meadows as
well.', 'claim_label': 'SUPPORTS', 'evidences': ['evidence-1047048',
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is diminishing biodiversity, which can be seen in these alpine meadows as
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emissions, the kind of extreme heat we saw this past summer will be the norm
when my young son is a grown man.'', 'claim_label': 'SUPPORTS', 'evidences':
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when my young son is a grown man.'', 'evidences': ['evidence-647957',
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evidence precision = 0.0
evidence fscore = 0.0
groundtruth = {'claim_text': 'That's because as Antarctica's mass shrinks, the
ice sheet's gravitational pull on the ocean relaxes somewhat, and the seas
travel back across the globe to pile up far away - with U.S. coasts being one
prime destination."', 'claim_label': 'SUPPORTS', 'evidences':
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predictions = {'claim text': 'That's because as Antarctica's mass shrinks, the
ice sheet's gravitational pull on the ocean relaxes somewhat, and the seas
travel back across the globe to pile up far away - with U.S. coasts being one
prime destination."', 'evidences': ['evidence-1051508', 'evidence-18442',
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evidence recall = 0.0
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groundtruth = {'claim_text': 'The noted oceanographer Walter Munk referred to
sea-level rise as an "enigma"', 'claim_label': 'DISPUTED', 'evidences':
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predictions = {'claim_text': 'The noted oceanographer Walter Munk referred to
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sea-level rise as an "enigma"', 'evidences': ['evidence-765786',
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planet, all of it scheduled to be released at a date that keeps getting moved
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growing temperature - which means even a small warming will push them down the
slope of declining productivity.', 'claim label': 'SUPPORTS', 'evidences':
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Virginia Key tide gauge just south of Miami Beach has measured a 9mm rise annually."', 'evidences': ['evidence-586537', 'evidence-1192814', 'evidence-515520', 'evidence-69521', 'evidence-51841']} evidence recall = 0.0 evidence precision = 0.0 evidence fscore = 0.0

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