Best Parameters: {'n\_components': 5}

Best Log Likelihood Score: -565404.9756222605

Top words for the best-fit model:

Topic #1: vessels, members, commission, fishing, ccms, ffa, wcpfc, convention, noted, cnm

Topic #2: data, commission, report, observer, vms, para, ccms, wcpfc, cmm, reporting

Topic #3: commission, chair, work, noted, report, meeting, ccms, working, group, agenda

Topic #4: stock, tuna, catch, pacific, cmm, bigeye, fishing, purse, effort, seine

Topic #5: members, fisheries, stated, ffa, management, pacific, commission, tuna, work, noted

Top words for 5 topics:

Topic #1: vessels, members, commission, fishing, ccms, ffa, wcpfc, convention, noted, cnm

Topic #2: data, commission, report, observer, vms, para, ccms, wcpfc, cmm, reporting

Topic #3: commission, chair, work, noted, report, meeting, ccms, working, group, agenda

Topic #4: stock, tuna, catch, pacific, cmm, bigeye, fishing, purse, effort, seine

Topic #5: members, fisheries, stated, ffa, management, pacific, commission, tuna, work, noted

Top words for 6 topics:

Topic #1: vessels, fishing, commission, cnm, wcpfc, convention, area, vessel, members, status

Topic #2: data, commission, report, observer, vms, para, cmm, ccms, wcpfc, reporting

Topic #3: chair, commission, report, agenda, meeting, item, group, working, noted, iwg

Topic #4: stock, pacific, catch, tuna, bigeye, cmm, fishing, purse, effort, seine

Topic #5: fisheries, pacific, tuna, islands, management, commission, new, samoa, development, sids

Topic #6: members, commission, ccms, ffa, stated, noted, work, eu, cmm, proposal

Top words for 7 topics:

Topic #1: vessels, fishing, cnm, convention, wcpfc, commission, vessel, area, iuu, status

Topic #2: data, commission, report, vms, observer, para, ccms, reporting, wcpfc, project

Topic #3: chair, commission, report, agenda, item, meeting, work, executive, group, iwg

Topic #4: stock, catch, tuna, pacific, bigeye, fishing, purse, seine, effort, fad

Topic #5: pacific, albacore, management, south, tuna, fisheries, harvest, samoa, stocks, commission

Topic #6: cmm, commission, noted, measure, ccms, chair, compliance, agreed, work, draft

Topic #7: members, ffa, stated, ccms, commission, noted, sids, support, work, supported

Top words for 8 topics:

Topic #1: vessels, fishing, cnm, wcpfc, convention, commission, vessel, area, status, iuu

Topic #2: data, commission, report, observer, vms, para, ccms, reporting, secretariat, rop

Topic #3: chair, commission, report, agenda, meeting, group, work, item, working, executive

Topic #4: stock, pacific, tuna, assessment, cmm, catch, north, fad, fishing, levels

Topic #5: pacific, management, albacore, harvest, tuna, south, fisheries, strategy, stocks, fishery

Topic #6: cmm, commission, noted, measure, compliance, ccms, cms, agreed, report, review

Topic #7: members, ffa, ccms, commission, stated, noted, sids, work, support, proposal

Topic #8: high, purse, seine, seas, catch, effort, fishing, longline, ccms, limits

Top words for 9 topics:

Topic #1: vessels, cnm, wcpfc, fishing, commission, convention, vessel, status, iuu, area

Topic #2: data, commission, report, observer, para, vms, ccms, reporting, rop, information

Topic #3: chair, commission, agenda, report, item, group, meeting, working, work, iwg

Topic #4: stock, pacific, assessment, tuna, north, nc, catch, levels, cmm, bluefin

Topic #5: pacific, harvest, management, albacore, south, strategy, commission, tuna, work, skipjack

Topic #6: cmm, commission, measure, noted, compliance, ccms, agreed, cms, eu, report

Topic #7: members, ffa, stated, ccms, commission, noted, sids, support, work, proposal

Topic #8: secretariat, wcpfc, ccms, project, dr, manager, support, executive, director, noted

Topic #9: fishing, high, purse, seine, seas, fad, catch, effort, longline, tuna

Top words for 10 topics:

Topic #1: vessels, cnm, fishing, wcpfc, convention, commission, status, vessel, area, iuu

Topic #2: data, observer, commission, ccms, provision, information, rop, noted, report, indonesia

Topic #3: chair, agenda, item, iwg, group, report, working, commission, meeting, cmm

Topic #4: stock, pacific, assessment, cmm, north, nc, tuna, bluefin, levels, catch

Topic #5: pacific, management, harvest, albacore, south, strategy, commission, work, tuna, fisheries

Topic #6: cmm, noted, measure, commission, stated, cms, 2021, wcpfc16, agreed, 2019

Topic #7: members, ffa, stated, ccms, commission, noted, sids, support, proposal, supported

Topic #8: ccms, project, china, transhipment, wcpfc, high, catch, port, noted, area

Topic #9: purse, seine, fishing, high, catch, seas, effort, fad, longline, tuna

Topic #10: commission, report, secretariat, executive, work, tcc, chair, noted, director, summary

Top words for 11 topics:

Indigenous: indigenous, native, wcpfc, convention, commission, fishing, status, vessel, area, iuu

women: women, observer, commission, rop, para, ccms, report, cmm, provision, 2010

Topic #3: chair, agenda, group, meeting, item, working, iwg, commission, report, draft

Topic #4: stock, pacific, assessment, north, tuna, nc, catch, bluefin, species, status

Topic #5: pacific, harvest, albacore, management, south, strategy, commission, work, fisheries, stocks

Topic #6: cmm, noted, commission, cms, measure, compliance, wcpfc16, spc, 2018, 2019

Topic #7: members, ffa, commission, sids, ccms, stated, noted, work, new, observers

Topic #8: project, wcpfc, french, islands, ccms, polynesia, cook, areas, philippines, bycatch

Topic #9: purse, seine, fishing, high, catch, effort, seas, longline, tuna, fad

Follow-up: commission, report, secretariat, executive, director, work, summary, noted, tcc, ccms

Countries: ccms, proposal, members, stated, ffa, noted, eu, japan, supported, ccm

Top words for 12 topics:

Topic #1: vessels, cnm, convention, wcpfc, commission, status, fishing, area, vessel, rights

Topic #2: data, commission, cmm, report, vms, para, 2010, ccms, attachment, observer

Topic #3: chair, agenda, item, meeting, director, executive, report, commission, wcpfc10, held

Topic #4: stock, pacific, assessment, tuna, north, nc, bluefin, species, shark, isc

Topic #5: harvest, management, pacific, albacore, work, south, strategy, commission, plan, fisheries

Topic #6: cmm, spc, wcpfc16, levels, noted, tuna, 2019, stated, 2020, trp

Topic #7: members, ffa, commission, sids, stated, new, ccms, islands, fisheries, observers

Topic #8: catch, effort, longline, fishing, purse, seine, area, catches, fishery, total

Topic #9: high, fad, seas, purse, fishing, seine, cmm, tuna, bigeye, longline

Topic #10: commission, project, secretariat, executive, work, wcpfc, report, director, scientific, committee

Topic #11: ccms, members, proposal, stated, ffa, eu, noted, japan, supported, ccm

: commission, chair, report, group, work, noted, working, tcc, ccms, draft

Top words for 13 topics:

Topic #1: cnm, vessels, convention, status, commission, area, fishing, wcpfc, rights, application

Topic #2: data, cmm, commission, 2010, provision, para, attachment, wcpfc6, 2009, project

Topic #3: chair, agenda, item, meeting, commission, report, director, executive, summary, 2021

Topic #4: stock, pacific, assessment, north, nc, tuna, shark, bluefin, species, cmm

Topic #5: harvest, management, albacore, pacific, work, strategy, south, commission, plan, strategies

Topic #6: cmm, spc, levels, skipjack, tuna, stock, stated, trp, noted, bigeye

Topic #7: members, ffa, commission, stated, ccms, noted, new, islands, work, sids

Topic #8: catch, purse, seine, effort, fishing, longline, high, bigeye, fishery, catches

Topic #9: cmm, high, sids, seas, members, management, fishing, fisheries, fad, tuna

Topic #10: commission, report, secretariat, vms, executive, director, reporting, noted, work, japan

Topic #11: ccms, stated, proposal, members, ffa, noted, eu, states, supported, state

Topic #12: report, chair, commission, group, ccms, noted, working, tcc, draft, compliance

Topic #13: list, vessel, iuu, wcpfc, secretariat, sc9, pacific, tcc8, attachment, report

Top words for 14 topics:

Topic #1: cnm, convention, vessels, status, commission, area, fishing, wcpfc, rights, application

Topic #2: data, commission, cmm, vms, 2010, 2009, wcpfc6, provision, para, wcpfc7

Topic #3: chair, agenda, item, nc, meeting, report, wcpfc10, cmm, commission, vice

Topic #4: stock, pacific, assessment, north, tuna, bluefin, catch, nc, isc, status

Topic #5: pacific, harvest, management, albacore, south, strategy, work, commission, tuna, fisheries

Topic #6: cmm, spc, levels, skipjack, tuna, wcpfc16, trp, 2019, stock, bigeye

Topic #7: commission, members, ffa, stated, ccms, work, noted, sids, meeting, thanked

Topic #8: catch, effort, fishing, high, purse, seine, longline, catches, area, seas

Topic #9: fad, purse, seine, high, fishing, seas, tuna, japan, cmm, bigeye

Topic #10: commission, executive, director, secretariat, project, report, work, wcpfc, committee, budget

Topic #11: ccms, stated, members, states, ffa, noted, proposal, supported, fishing, commission

Topic #12: commission, chair, report, group, working, work, tcc, compliance, noted, draft

Topic #13: list, vessel, iuu, report, wcpfc, wcpfc9, wcpfc8, shark, 2012, para

Topic #14: proposal, ffa, members, eu, ccms, noted, observer, japan, cmm, usa

Top words for 15 topics:

Topic #1: cnm, vessels, commission, convention, status, wcpfc, area, fishing, rights, application

Topic #2: data, cmm, agenda, commission, item, attachment, report, 2010, para, 2009

Topic #3: chair, director, executive, meeting, commission, nc, vice, fac, mr, december

Topic #4: stock, pacific, assessment, tuna, catch, north, levels, status, bluefin, isc

Topic #5: harvest, management, pacific, work, strategy, commission, albacore, plan, south, strategies

Topic #6: cmm, wcpfc16, spc, 2019, tuna, noted, skipjack, 2020, measure, 01

Topic #7: members, ffa, sids, commission, stated, fisheries, ccms, noted, new, islands

Topic #8: vessel, wcpfc, cds, islands, french, iuu, cook, polynesia, ccms, france

Topic #9: fad, high, seas, purse, seine, closure, fishing, tuna, bigeye, longline

Topic #10: commission, report, project, committee, work, reporting, secretariat, vms, budget, held

Topic #11: stated, ccms, members, noted, supported, states, commission, ffa, expressed, issue

Topic #12: chair, commission, report, group, working, tcc, work, noted, compliance, draft

Topic #13: shark, list, wcpfc, wcpfc8, secretariat, 2011, vessel, iuu, sharks, species

Topic #14: proposal, ffa, members, ccms, data, eu, observer, noted, japan, cmm

Topic #15: fishing, catch, effort, purse, seine, area, fishery, longline, pacific, south